

NASPO ValuePoint
PARTICIPATING ADDENDUM



PUBLIC SAFETY COMMUNICATIONS

Led by the State of Washington
State of Utah Contract #: PA4176

Master Agreement #: 00318

Contractor: **NOKIA OF AMERICA CORPORATION**

Participating Entity: **STATE OF UTAH**

Participating Entity Contract #: **PA4176**

The following products or services are included in this contract portfolio:

Nokia of America Corporation has been awarded the following category. Detail regarding available services, warranty, software options along with products and pricing are available on the NASPO ValuePoint webpage.

- 5.1 MICROWAVE: CARRIER GRADE, PACKET DATA (NATIVE IP)
- 5.2 MICROWAVE: NETWORK GRADE
- 5.5 MICROWAVE: CARRIER GRADE, NATIVE TIME DIVISION MULTIPLEX (TDM)
- MICROWAVE SUB-CAT 5.1 INDOOR SOLUTION
- MICROWAVE SUB-CAT 5.1 OUTDOOR SOLUTION
- MICROWAVE SUB-CAT 5.2 INDOOR SOLUTION
- MICROWAVE SUB-CAT 5.2 OUTDOOR SOLUTION
- MICROWAVE SUB-CAT 5.5 INDOOR SOLUTION
- MICROWAVE SUB-CAT 5.5 OUTDOOR SOLUTION

Participating Addendum Terms and Conditions:

1. Scope: This addendum covers *the Public Safety Communications Products, Services and Solutions* led by the State of Washington for use by state agencies and other entities located in the State of Utah authorized by that State's statutes to utilize State contracts with the prior approval of the State's Chief Procurement Official. An amendment to this PA is not required when offerings are adjusted in the Master Agreement, so long as all additions remain within the master agreement's original scope.
2. Pricing: The pricing and rates from the Master Agreement shall flow down to this PA. An amendment to this PA is not required when pricing in the Master Agreement is adjusted / updated.
3. Contract Effective Dates: This PA is effective upon final signature of both parties, and expires upon the expiration or termination of the NASPO ValuePoint Master Agreement #00318. A contract amendment is not necessary in the event of the renewal or extension of the Master Agreement, so long as such renewal/extension was originally provided within the solicitation supporting the master agreement.
4. Order of Precedence: The order of precedence as provided in the NASPO ValuePoint Master Agreement #00318 applies to this PA.

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5. Participation: This NASPO ValuePoint Master Agreement may be used by all state agencies, institutions of higher institution, political subdivisions and other entities authorized to use statewide contracts in the State of Utah. Issues of interpretation and eligibility for participation are solely within the authority of the State Chief Procurement Official.
6. Subcontractors: All contactors, dealers, and resellers authorized in the State of Utah, as shown on the dedicated Contractor (cooperative contract) website, are approved to provide sales and service support to participants in the NASPO ValuePoint Master Agreement. The contractor's dealer participation will be in accordance with the terms and conditions set forth in the aforementioned Master Agreement.
7. Orders: Any order placed by a Participating Entity or Purchasing Entity for a product and/or service available from this Master Agreement shall be deemed to be a sale under (and governed by the prices and other terms and conditions) of the Master Agreement unless the parties to the order agree in writing that another contract or agreement applies to such order.
8. Primary Contacts: The primary contact individuals for this Participating Addendum are as follows (or their named successors):

Contractor

Name:	Erig Negley
Address:	600 Mountain Avenue Murray Hill, NJ 07974
Telephone:	908-679-6514
Fax:	
Email:	Eric.negley@nokia.com

Participating Entity

Name:	Kevin Lucas
Address:	4315 South 2700 West, Floor 3 Taylorsville, UT 84129-2128
Telephone:	801-957-7281
Fax:	
Email:	klucas@utah.gov

9. **ADDITIONAL TERMS AND CONDITIONS**

The following terms and conditions will apply to this participating addendum.

Please see below Attachment A: State of Utah Standard Terms and Conditions for Goods and Services

10. Subcontractors: All contactors, dealers, and resellers authorized in the State of Utah, as shown on the dedicated Contractor (cooperative contract) website, are approved to provide sales and service support to participants in the NASPO ValuePoint Master Agreement. The contractor's dealer participation will be in accordance with the terms and conditions set forth in the aforementioned Master Agreement.

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11. Orders: Any order placed by a Participating Entity or Purchasing Entity for a product and/or service available from this Master Agreement shall be deemed to be a sale under (and governed by the prices and other terms and conditions) of the Master Agreement unless the parties to the order agree in writing that another contract or agreement applies to such order.
12. Purchase Order Instructions: All orders should contain the following (1) Mandatory Language "PO is subject to NASPO ValuePoint Contract 00318" (2) Purchasing Entity Name, Address, Contact, & Phone-Number (3) Purchase order amount. Unless otherwise directed by Contractor, please send your Purchasing Entity PO to Contractor so Contractor can arrange for proper ordering and installation of the ordered items. During Contract performance, Contractor shall identify and make available to Purchasers upon request a list of subcontractors, dealers, and distributors who will supply products or perform services in fulfillment of Contract requirements. If applicable, the information shall include the subcontractor's, dealer's and distributor's name, the nature of services to be performed or products to be sold by product category/subcategory, address, telephone, facsimile, email, and federal tax identification number ("TIN") (if the company is authorized to sell and invoice for products and services). Each order must (i) identify the State by full name and address; (ii) itemize the quantity, part number and description of the Equipment that State desires to purchase, the Licensed Materials that State desires to license, and/or the Services that State desires to engage Contractor to perform; (iii) state the price of the itemized Products and Services determined under Section 3 of the Master Agreement (the "Price"), (iv) identify the "bill-to" address, (v) identify the "ship-to" address, (vi) set forth the requested delivery dates (and any shipping instructions) and/or performance dates, consistent with Contractor's standard published intervals, (viii) provide a State contact name and telephone number, and (ix) explicitly refer to the number of this Participating Addendum. State's "bill-to" and "ship-to" address must be located within the United States. By submitting to Contractor an order under this Addendum, a Purchasing Entity represents and warrants that it has funding, appropriations, limitation, allotments, and/or other expenditure authority sufficient to allow Purchasing Entity to meet its payment obligations under such order.
13. Price Agreement Number: All purchase orders issued by purchasing entities within the jurisdiction of this participating addendum shall include the Participating State contract number: **PA4176** and the Lead State Master Agreement Number: 00318.
14. Pursuant to Master Agreement Section 5.2, shipping charges must be mutually agreed to between Purchasing Entity and Contractor and shall be added as a separate line item on the Contractor's invoice.
15. Pursuant to the Master Agreement Section 5.8, Contractor hereby provides its software license agreement. Purchasing Entity shall use all Licensed Materials in accordance with this Section. "Licensed Materials" refers to Software and Documentation. Upon delivery of any Licensed Material and subject to Purchasing Entity's payment of the applicable fees for such Licensed Material and compliance with the other terms and conditions of this Agreement, Contractor grants to Purchasing Entity, and Purchasing Entity accepts, a personal, nonexclusive, nontransferable license to use the portions of the Licensed Material

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for which activation has been authorized by Contractor, solely on or with the single unit or arrangement of Equipment for which the Licensed Material was delivered, for Purchasing Entity's internal use in the United States.

Purchasing Entity acknowledges and agrees that: (a) Contractor may have encoded within the Software optional functionality, features and/or capacity, which may be accessed only through the purchase of the applicable license extension from Contractor at an additional price (no licenses are granted to such functionality, features and/or capacity unless Purchasing Entity purchases the applicable license extension); and (b) Purchasing Entity may need to obtain a new or additional application key from Contractor to use such Software.

This Agreement applies to all updates, upgrades, maintenance releases, revisions and enhancements for the Licensed Materials which Contractor may supply to Purchasing Entity from time to time.

Purchasing Entity may copy Licensed Materials as reasonably necessary for backup and archival purposes if the copies contain all of the Contractor proprietary notices contained in the original Licensed Materials. All copies of all Licensed Materials (including partial copies) are Contractor Confidential Information. All rights, title and interest in and to the Licensed Materials, including all intellectual property rights, remain vested in Contractor, its suppliers and licensors, and Purchasing Entity is granted only a limited license to use the Licensed Materials in conjunction with the Equipment, as set out in this Section.

Purchasing Entity shall not directly or indirectly: (a) modify, copy, transmit, alter, merge, decompile, disassemble, reverse engineer or adapt any Licensed Material or portion thereof; (b) encumber, time-share, rent or lease the rights granted herein; (c) manufacture, adapt, create derivative works of, localize, port or otherwise modify any Licensed Material or portion thereof; (d) disclose or otherwise make available any Licensed Material or portion thereof to any third party; (e) enable any Software functionality, feature or capacity which Contractor licenses as a separate product, without Contractor's prior written consent; (f) take any action that may result in the Software becoming subjected to the terms of a license that requires it to be (i) disclosed or distributed in source code form, (ii) licensed for the purpose of making derivative works, or (iii) redistributable at no charge; or (g) use any Licensed Material or portion thereof except in accordance with this Section.

Upon reasonable prior written notice, Contractor may inspect and audit Purchasing Entity's compliance with this Section during normal business hours. Purchasing Entity shall cooperate with the audit and shall grant assistance and access to applicable records, materials, personnel, Equipment, and any other information or products which may reasonably enable Contractor to determine whether the use, copying and disclosure of the Licensed Materials comply with this Agreement. In addition, Upon Contractor providing 10-business-days' notice to Purchasing Entity, Purchasing entity will allow physical access to its premises so that Contractor may obtain a network connection so that Contractor may electronically audit Purchasing Entity's compliance with this Section. If an audit reveals that Purchasing Entity possesses or at any time possessed unlicensed copies of any Licensed Materials, or used any Licensed Materials beyond the licensed functionality, features or capacity restrictions or beyond the terms stated herein, then Purchasing Entity shall pay

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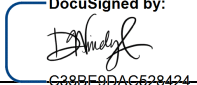
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Contractor the applicable license fees (plus interest) and the costs incurred in the audit immediately upon request.

Certain Software may be delivered with its own specific license ("Additional License"). In such a case, the terms of the Additional License will be delivered to Purchasing Entity, such as in a separate license.txt file or as part of a tear-open document and will govern use of the Software by Purchasing Entity to the extent Contractor does not have a right to supersede them in this Agreement. Contractor's licensors are third party beneficiaries of this Agreement with respect to their Licensed Materials.

If Purchasing Entity's license or Additional License is cancelled or terminated, or when Purchasing Entity no longer uses the Licensed Materials, Purchasing Entity shall return or destroy the Licensed Materials and all copies and certify to Contractor that it has done so.

IN WITNESS WHEREOF, the parties have executed this Addendum as of the date of execution by both parties below.

Participating Entity: State of Utah	Contractor: Nokia of America Corporation	Contractor: Nokia of America Corporation
Signature: 	Signature: <i>Desiree Obleton</i>	Signature: <i>Matt Young</i>
Name: D windy Aphayrath	Name: Desiree Obleton	Name: Matt Young
Title: Chief Procurement Officer	Title: Commercial Contracts Manager	Title: VP, Enterprise North American Sales
Date: 9/20/2023	Date: September 15, 2023	Date: September 15, 2023

For questions regarding NASPO ValuePoint Participating Addendums, please contact the Cooperative Contract Coordinator team at info@naspovaluepoint.org.

Please email fully executed PDF copy of this document to PA@naspovaluepoint.org to support documentation of participation and posting in appropriate data bases.

ATTACHMENT A: STATE OF UTAH STANDARD TERMS AND CONDITIONS FOR GOODS AND SERVICES***Changes to sections 4, 10, 13, 14, 16, 17, 18, 20, 21, 22, 23, 24, 25, 26, 28, 29, 30, 31, 36, 41, 42, 45, 48, 50.**

1. **DEFINITIONS:** The following terms shall have the meanings set forth below:
 - a) "**Confidential Information**" means information that is deemed as confidential under applicable state and federal laws, including personal information. The Eligible User reserves the right to identify, during and after this Contract, additional reasonable types of categories of information that must be kept confidential under federal and state laws.
 - b) "**Contract**" means the Contract Signature Page(s), including all referenced attachments and documents incorporated by reference. The term "Contract" shall include any purchase orders that result from this Contract.
 - c) "**Contract Signature Page(s)**" means the State of Utah cover page(s) that the Division and Contractor signed.
 - d) "**Contractor**" means the individual or entity delivering the Procurement Item identified in this Contract. The term "Contractor" shall include Contractor's agents, officers, employees, and partners.
 - e) "**Custom Deliverable**" means the Work Product that Contractor is required to deliver to the Eligible User under this Contract.
 - f) "**Division**" means the Division of Purchasing and General Services.
 - g) "**Eligible User(s)**" means those authorized to use State Cooperative Contracts and includes the State of Utah's government departments, institutions, agencies, political subdivisions (e.g., colleges, school districts, counties, cities, etc.), and, as applicable, nonprofit organizations, agencies of the federal government, or any other entity authorized by the laws of the State of Utah to participate in State Cooperative Contracts.
 - h) "**End User Agreement**" means any agreement that Eligible Users are required to sign in order to participate in this Contract, including an end user agreement, customer agreement, memorandum of understanding, statement of work, lease agreement, service level agreement, or any other named separate agreement.
 - i) "**Procurement Item**" means a supply, a service, Custom Deliverable, construction, or technology that Contractor is required to deliver to the Eligible User under this Contract.
 - j) "**Response**" means the Contractor's bid, proposals, quote, or any other document used by the Contractor to respond to the Solicitation.
 - k) "**Solicitation**" means an invitation for bids, request for proposals, notice of a sole source procurement, request for statement of qualifications, request for information, or any document used to obtain bids, proposals, pricing, qualifications, or information for the purpose of entering into this Contract.
 - l) "**State of Utah**" means the State of Utah, in its entirety, including its institutions, agencies, departments, divisions, authorities, instrumentalities, boards, commissions, elected or appointed officers, employees, agents, and authorized volunteers.
 - m) "**Subcontractors**" means a person under contract with a contractor or another subcontractor to provide services or labor for design or construction, including a trade contractor or specialty contractor.
 - n) "**Work Product**" means every invention, modification, discovery, design, development, customization, configuration, improvement, process, software program, work of authorship, documentation, formula, datum, technique, know how, secret, or intellectual property right whatsoever or any interest therein (whether patentable or not patentable or registerable under copyright or similar statutes or subject to analogous protection) that is specifically made, conceived, discovered, or reduced to practice by Contractor or Contractor's Subcontractors (either alone or with others) pursuant to this Contract. Work Product shall be considered a work made for hire under federal, state, and local laws; and all interest and title shall be transferred to and owned by the Eligible User. Notwithstanding anything in the immediately preceding sentence to the contrary, Work Product does not include any Eligible User intellectual property, Contractor's intellectual property (that it owned or licensed prior to this Contract) or Third Party intellectual property.
2. **GOVERNING LAW AND VENUE:** This Contract shall be governed by the laws, rules, and regulations of the State of Utah. Any action or proceeding arising from this Contract shall be brought in a court of competent jurisdiction in the State of Utah. Venue shall be in Salt Lake City, in the Third Judicial District Court for Salt Lake County.
3. **LAWS AND REGULATIONS:** At all times during this Contract, Contractor and all Procurement Items delivered and/or performed under this Contract will comply with all applicable federal and state constitutions, laws, rules, codes, orders, and regulations, including applicable licensure and certification requirements. If this Contract is funded by federal funds, either in whole or in part, then any federal regulation related to the federal funding, including CFR Appendix II to Part 200, will supersede this Attachment A.
4. **RECORDS ADMINISTRATION:** See Section 11 of the NASPO ValuePoint Agreement 00318 which governs this section.
5. **PERMITS:** If necessary Contractor shall procure and pay for all permits, licenses, and approvals necessary for the execution of this Contract.
6. **CERTIFY REGISTRATION AND USE OF EMPLOYMENT "STATUS VERIFICATION SYSTEM":** The Status Verification System, also referred to as "E-verify", only applies to contracts issued through a Request for Proposal process, to sole sources that are included within a Request for Proposal, and when Contractor employs any personnel in Utah.
 - a. Contractor certifies as to its own entity, under penalty of perjury, that Contractor has registered and is participating in the Status Verification System to verify the work eligibility status of Contractor's new employees that are employed in the State of Utah in accordance with applicable immigration laws.
 - b. Contractor shall require that each of its Subcontractors certify by affidavit, as to their own entity, under penalty of perjury, that each Subcontractor has registered and is participating in the Status Verification System to verify the work eligibility status of Subcontractor's new employees that are employed in the State of Utah in accordance with applicable immigration laws.
 - c. Contractor's failure to comply with this section will be considered a material breach of this Contract.

7. **CONFLICT OF INTEREST:** Contractor represents, to the best of its knowledge, that none of its officers or employees are officers or employees of the Division or the State of Utah, unless disclosure has been made to the Division.
8. **INDEPENDENT CONTRACTOR:** Contractor and Subcontractors, in the performance of this Contract, shall act in an independent capacity and not as officers or employees or agents of the Division or the State of Utah.
9. **CONTRACTOR RESPONSIBILITY:** Contractor is solely responsible for fulfilling the contract, with responsibility for all Procurement Items delivered and/or performed as stated in this Contract. Contractor shall be the sole point of contact regarding all contractual matters. Contractor must incorporate Contractor's responsibilities under this Contract into every subcontract with its Subcontractors that will provide the Procurement Item(s) to the Eligible Users under this Contract. Moreover, Contractor is responsible for its Subcontractors compliance under this Contract.
10. **INDEMNITY:** See Section 15.2 of the NASPO ValuePoint Agreement 00318 which governs this section.
11. **EMPLOYMENT PRACTICES:** Contractor agrees to abide by the following federal and state employment laws, including: (i) Title VI and VII of the Civil Rights Act of 1964 (42 U.S.C. 2000e), which prohibits discrimination against any employee or applicant for employment or any applicant or recipient of services on the basis of race, religion, color, or national origin; (ii) Executive Order No. 11246, as amended, which prohibits discrimination on the basis of sex; (iii) 45 CFR 90, which prohibits discrimination on the basis of age; (iv) Section 504 of the Rehabilitation Act of 1973, or the Americans with Disabilities Act of 1990, which prohibits discrimination on the basis of disabilities; and (v) Utah's Executive Order 2019-1, dated February 5, 2019, which prohibits unlawful harassment in the workplace. Contractor further agrees to abide by any other laws, regulations, or orders that prohibit the discrimination of any kind by any of Contractor's employees. Contractor agrees to abide by any other laws, regulations, or orders that prohibit the discrimination of any kind by any of Contractor's employees.
12. **AMENDMENTS:** This Contract may only be amended by the mutual written agreement of the parties, provided that the amendment is within the Scope of Work of this Contract and is within the scope/purpose of the original solicitation for which this Contract was derived. The amendment will be attached and made part of this Contract. Automatic renewals will not apply to this Contract, even if listed elsewhere in this Contract.
13. **DEBARMENT:** See Section 4.2 of NASPO ValuePoint Agreement 00318 which governs this section.
14. **TERMINATION:** This Contract may be terminated or suspended, with cause by either party, in advance of the specified expiration date, upon written notice given by the other party. The party in violation will be given twenty (20) days after written notification to correct and cease the violations, after which this Contract may be terminated or suspended for cause immediately and subject to the remedies below. In the event of termination for Withdrawal of Authority, Contractor will be entitled to seek a change order to the extent Contractor provides documentary evidence that Contractor has incurred additional costs as a result of the suspension including costs to demobilize and remobilize the project.

This Contract may also be terminated without cause (for convenience), in advance of the specified expiration date, by the Division, upon sixty (60) days written termination notice being given to the Contractor. The Division and the Contractor may terminate this Contract, in whole or in part, at any time, by mutual agreement in writing.

On termination of this Contract, all accounts and payments will be processed according to the financial arrangements set forth herein for approved and conforming Procurement Items ordered prior to date of termination. In no event shall the Eligible Users be liable to the Contractor for compensation for any Procurement Item neither requested nor accepted by an Eligible User. In no event shall the Division's exercise of its right to terminate this Contract for convenience relieve the Contractor of any liability to the Eligible Users for any damages or claims arising under this Contract.

15. **NONAPPROPRIATION OF FUNDS, REDUCTION OF FUNDS, OR CHANGES IN LAW:** Upon thirty (30) days written notice delivered to the Contractor, a purchase order that results from this Contract may be terminated in whole or in part at the sole discretion of an Eligible User, if an Eligible User reasonably determines that: (i) a change in Federal or State legislation or applicable laws materially affects the ability of either party to perform under the terms of this Contract; or (ii) that a change in available funds affects an Eligible User's ability to pay under this Contract. A change of available funds as used in this paragraph includes, but is not limited to a change in Federal or State funding, whether as a result of a legislative act or by order of the President or the Governor.

If a written notice is delivered under this section, an Eligible User will reimburse Contractor for the Procurement Item(s) properly ordered and/or properly performed until the effective date of said notice. An Eligible User will not be liable for any performance, commitments, penalties, or liquidated damages that accrue after the effective date of said written notice.

16. **SALES TAX EXEMPTION:** See Section 6.6 of NASPO ValuePoint Agreement 00318 which governs this section.
17. **WARRANTY OF PROCUREMENT ITEM(S):** See Sections 3.2 and 3.3 of NASPO ValuePoint Agreement 00318 which governs this section.
18. **CONTRACTOR'S INSURANCE RESPONSIBILITY:** See Section 12 and Exhibit A of NASPO ValuePoint Agreement 00318 which governs this section.
19. **RESERVED.**
20. **PUBLIC INFORMATION:** See Section 13 of NASPO ValuePoint Agreement 00318 which governs this section.
21. **DELIVERY:** See Section 5.2 of NASPO ValuePoint Agreement 00318 which governs this section.
22. **ACCEPTANCE AND REJECTION:** See Section 5.3 of NASPO ValuePoint Agreement 00318 which governs this section.
23. **INVOICING:** See Section 6 of NASPO ValuePoint Agreement 00318 which governs this section.
24. **PAYMENT:** See Section 6 of the NASPO ValuePoint Agreement 00318 which governs this section.

25. **INDEMNIFICATION RELATING TO INTELLECTUAL PROPERTY:** See Section 15.3 of the NASPO ValuePoint Agreement 00318 which governs this section.
26. **OWNERSHIP IN INTELLECTUAL PROPERTY:** See Section 5.8 of the NASPO ValuePoint Agreement 00318 which governs this section.
27. **OWNERSHIP IN CUSTOM DELIVERABLES:** In the event that Contractor provides Custom Deliverables to the Eligible User, pursuant to this Contract, Contractor grants the ownership in Custom Deliverables, which have been developed and delivered by Contractor exclusively for the Eligible User and are specifically within the framework of fulfilling Contractor's contractual obligations under this contract. Custom Deliverables shall be deemed work made for hire, such that all intellectual property rights, title and interest in the Custom Deliverables shall pass to the Eligible User, to the extent that the Custom Deliverables are not recognized as work made for hire, Contractor hereby assigns to the Eligible User any and all copyrights in and to the Custom Deliverables, subject to the following:
1. Contractor has received payment for the Custom Deliverables,
 2. Each party will retain all rights to patents, utility models, mask works, copyrights, trademarks, trade secrets, and any other form of protection afforded by law to inventions, models, designs, technical information, and applications ("Intellectual Property Rights") that it owned or controlled prior to the effective date of this contract or that it develops or acquires from activities independent of the services performed under this contract ("Background IP"), and
 3. Contractor will retain all right, title, and interest in and to all Intellectual Property Rights in or related to the services, or tangible components thereof, including but not limited to (a) all know-how, intellectual property, methodologies, processes, technologies, algorithms, software, or development tools used in performing the Services (collectively, the "Utilities"), and (b) such ideas, concepts, know-how, processes and reusable reports, designs, charts, plans, specifications, documentation, forms, templates, or output which are supplied or otherwise used by or on behalf of Contractor in the course of performing the Services or creating the Custom Deliverables, other than portions that specifically incorporate proprietary or Confidential Information or Custom Deliverables of the Eligible User (collectively, the "Residual IP"), even if embedded in the Custom Deliverables.
 4. Custom Deliverables, not including Contractor's Intellectual Property Rights, Background IP, and Residual IP, may not be marketed or distributed without written approval by the Eligible User.
- Contractor agrees to grant to the Eligible User a perpetual, irrevocable, royalty-free license to use Contractor's Background IP, Utilities, and Residual IP, as defined above, solely for the Eligible User and the State of Utah to use the Custom Deliverables. The Eligible User reserves a royalty-free, nonexclusive, and irrevocable license to reproduce, publish, or otherwise use and to authorize others to use, for the Eligible User's and the State of Utah's internal purposes, such Custom Deliverables. For the Goods delivered that consist of Contractor's scripts and code and are not considered Custom Deliverables or Work Product, for any reason whatsoever, Contractor grants the Eligible User a non-exclusive, non-transferable, irrevocable, perpetual right to use, copy, and create derivative works from such, without the right to sublicense, for the Eligible User's and the State of Utah's internal business operation under this Contract. The Eligible User and the State of Utah may not participate in the transfer or sale of, create derivative works from, or in any way exploit Contractor's Intellectual Property Rights, in whole or in part.
28. **ASSIGNMENT:** See Section 17.7 of the NASPO ValuePoint Agreement 00318 which governs this section.
29. **REMEDIES:** See Section 14 of the NASPO ValuePoint Agreement 00318 which governs this section.
30. **FORCE MAJEURE:** Neither an Eligible User nor Contractor will be held responsible for (a) delay or default caused by fire, riot, act of God, flood or other natural disasters, government requirements, strikes, power failures, or embargoes and/or war which is beyond that party's reasonable control and (b) from satisfying whatever conditions precedent to the other Party's obligations that cannot be satisfied due to acts or events beyond its reasonable control. In the event that either party's responsibilities are delayed by an uncontrollable event, they shall resume their obligations as promptly as reasonably possible under the circumstances. If an Eligible User determines that such a delay will prevent Contractor's successful performance of this Contract, an Eligible User may terminate a purchase order resulting from this Contract. In the event of termination due to an uncontrollable event, the Eligible User shall ensure that all payments owed for Procurement Items rendered, even those that continued during the delay, are paid up to the point of termination.
31. **CONFIDENTIALITY:** See Section 5.6 of the NASPO ValuePoint Agreement 00318 which governs this section.
32. **LARGE VOLUME DISCOUNT PRICING:** Eligible Users may seek to obtain additional volume discount pricing for large orders provided Contractor is willing to offer additional discounts for large volume orders. No amendment to this Contract is necessary for Contractor to offer discount pricing to an Eligible User for large volume purchases.
33. **ELIGIBLE USER PARTICIPATION:** Participation under this Contract by Eligible Users is voluntarily determined by each Eligible User. Contractor agrees to supply each Eligible User with Procurement Items based upon the same terms, conditions, and prices of this Contract.
34. **INDIVIDUAL CUSTOMERS:** Each Eligible User that purchases Procurement Items from this Contract will be treated as individual customers. Each Eligible User will be responsible to follow the terms and conditions of this Contract. Contractor agrees that each Eligible User will be responsible for their own charges, fees, and liabilities. Contractor shall apply the charges to each Eligible User individually. The Division is not responsible for any unpaid invoice.
35. **REPORTS AND FEES:**
- a. **Administrative Fee:** Contractor agrees to provide a quarterly administrative fee to the State in the form of a check, EFT or online payment through the Division's Automated Vendor Usage Management System. Checks will be payable to

the "State of Utah Division of Purchasing" and will be sent to State of Utah, Division of Purchasing, Attn: Cooperative Contracts, PO Box 141061, Salt Lake City, UT 84114-1061. **The Administrative Fee is 0.4% (four tenths of one percent)** and will apply to all purchases (net of any returns, credits, or adjustments) made under this Contract.

- b. Quarterly Reports: Contractor agrees to provide a quarterly utilization report, reflecting net sales to the State during the associated fee period. The report will show the dollar volume of purchases by each Eligible User. The quarterly report will be provided in secure electronic format through the Division's Automated Vendor Usage Management System found at: <https://statecontracts.utah.gov/Vendor..>

- c. Report Schedule: Quarterly utilization reports shall be made in accordance with the following schedule:

Period End	Reports Due
March 31	April 30
June 30	July 31
September 30	October 31
December 31	January 31

- d. Fee Payment: After the Division receives the quarterly utilization report, it will send Contractor an invoice for the total quarterly administrative fee owed to the Division. Contractor shall pay the quarterly administrative fee within thirty (30) days from receipt of invoice.

- e. Timely Reports and Fees: If the quarterly administrative fee is not paid by thirty (30) days of receipt of invoice or quarterly utilization reports are not received by the report due date, then Contractor will be in material breach of this Contract.

36. **ORDERING:** See Section 5.1 of the NASPO ValuePoint Agreement 00318 which governs this section.
37. **END USER AGREEMENTS:** If Eligible Users are required by Contractor to sign an End User Agreement before participating in this Contract, then a copy of the End User Agreement must be attached to this Contract as an attachment. The term of the End User Agreement shall not exceed the term of this Contract, and the End User Agreement will automatically terminate upon the completion of termination of this Contract. An End User Agreement must reference this Contract, and may not be amended or changed unless approved in writing by the Division. Eligible Users will not be responsible or obligated for any early termination fees if the End User Agreement terminates as a result of completion or termination of this Contract.
38. **PUBLICITY:** Contractor shall submit to the Division for written approval all advertising and publicity matters relating to this Contract. It is within the Division's sole discretion whether to provide approval, which approval must be in writing.
39. **WORK ON STATE OF UTAH OR ELIGIBLE USER PREMISES:** Contractor shall ensure that personnel working on the premises of an Eligible User shall: (i) abide by all of the rules, regulations, and policies of the premises; (ii) remain in authorized areas; (iii) follow all instructions; and (iv) be subject to a background check, prior to entering the premises. The Eligible User may remove any individual for a violation hereunder.
40. **CONTRACT INFORMATION:** During the duration of this Contract the State of Utah Division of Purchasing is required to make available contact information of Contractor to the State of Utah Department of Workforce Services. The State of Utah Department of Workforce Services may contact Contractor during the duration of this Contract to inquire about Contractor's job vacancies within the State of Utah.
41. **WAIVER:** See Section 17.12 of the NASPO ValuePoint Agreement 00318 which governs this section.
42. **SUSPENSION OF WORK:** See Section 14 of the NASPO ValuePoint Agreement 00318 which governs this section.
43. **PROCUREMENT ETHICS:** Contractor understands that a person who is interested in any way in the sale of any supplies, services, construction, or insurance to the State of Utah is violating the law if the person gives or offers to give any compensation, gratuity, contribution, loan, reward, or any promise thereof to any person acting as a procurement officer on behalf of the State of Utah, or to any person in any official capacity who participates in the procurement of such supplies, services, construction, or insurance, whether it is given for their own use or for the use or benefit of any other person or organization.
44. **CHANGES IN SCOPE:** Any changes in the scope of the services to be performed under this Contract shall be in the form of a written amendment to this Contract, mutually agreed to and signed by both parties, specifying any such changes, fee adjustments, any adjustment in time of performance, or any other significant factors arising from the changes in the scope of services.
45. **ATTORNEY'S FEES:** See Section 2.4 of the NASPO ValuePoint Agreement 00318 which governs this section.
46. **TRAVEL COSTS:** If travel expenses are permitted by the Solicitation All travel costs associated with the delivery of Services under this Contract will be paid according to the rules and per diem rates found in the Utah Administrative Code R25-7. Invoices containing travel costs outside of these rates will be returned to the vendor for correction.
47. **PERFORMANCE EVALUATION:** The Division may conduct a performance evaluation of Contractor, including Contractor's Subcontractors. Results of any evaluation may be made available to Contractor upon request.
48. **STANDARD OF CARE:** See Section 5.5 of the NASPO ValuePoint Agreement 00318 which governs this section.

49. **REVIEWS:** The Division reserves the right to perform plan checks, plan reviews, other reviews, and/or comment upon the services of Contractor. Such reviews do not waive the requirement of Contractor to meet all of the terms and conditions of this Contract.
50. **DISPUTE RESOLUTION:** See Sections 2.4 and 16 of the NASPO ValuePoint Agreement 00318 which govern this section.
51. **ORDER OF PRECEDENCE:** In the event of any conflict in the terms and conditions in this Contract, the order of precedence shall be: (i) this Attachment A; (ii) Contract Signature Page(s); (iii) the State of Utah's additional terms and conditions, if any; (iv) any other attachment listed on the Contract Signature Page(s); and (v) Contractor's terms and conditions that are attached to this Contract, if any. Any provision attempting to limit the liability of Contractor or limit the rights of an Eligible User, the Division, or the State of Utah must be in writing and attached to this Contract or it is rendered null and void.
52. **SURVIVAL OF TERMS:** Termination or expiration of this Contract shall not extinguish or prejudice Eligible Users' right to enforce this Contract with respect to any default of this Contract or defect in the Procurement Item(s) that has not been cured, or of any of the following clauses, including: Governing Law and Venue, Laws and Regulations, Records Administration, Remedies, Dispute Resolution, Indemnity, Newly Manufactured, Indemnification Relating to Intellectual Property, Warranty of Procurement Item(s), Insurance.
53. **SEVERABILITY:** The invalidity or unenforceability of any provision, term, or condition of this Contract shall not affect the validity or enforceability of any other provision, term, or condition of this Contract, which shall remain in full force and effect.
54. **ERRORS AND OMISSIONS:** Contractor shall not take advantage of any errors and/or omissions in this Contract. The Contractor must promptly notify the Division of any errors and/or omissions that are discovered.
55. **ENTIRE AGREEMENT:** This Contract constitutes the entire agreement between the parties and supersedes any and all other prior and contemporaneous agreements and understandings between the parties, whether oral or written.
56. **PUBLIC CONTRACT BOYCOTT RESTRICTIONS:** In accordance with Utah Code 63G-27-102, Contractor certifies that it is not currently engaged in an "economic boycott" nor a "boycott of the State of Israel" as those terms are defined in that Code section. Contractor also agrees not to engage in either boycott for the duration of this contract. If Contractor does engage in such a boycott, it shall immediately provide written notification to the public entity party to this contract.

(Revision Date: 02 May 2023)



COOPERATIVE PURCHASING MASTER AGREEMENT

No. 00318

PUBLIC SAFETY COMMUNICATIONS PRODUCTS, SERVICES AND SOLUTIONS

For Use by Eligible Purchasing Entities

By and Between

**STATE OF WASHINGTON
DEPARTMENT OF ENTERPRISE SERVICES**

and

NOKIA OF AMERICA CORPORATION

Dated January 1, 2022

COOPERATIVE PURCHASING MASTER AGREEMENT

No. 00318

PUBLIC SAFETY COMMUNICATIONS PRODUCTS, SERVICES AND SOLUTIONS

FOR

5.1 MICROWAVE: CARRIER GRADE, PACKET DATA (NATIVE IP)

5.2 MICROWAVE: NETWORK GRADE

5.5 MICROWAVE: CARRIER GRADE, NATIVE TIME DIVISION MULTIPLEX (TDM)

MICROWAVE SUB-CAT 5.1 INDOOR SOLUTION

MICROWAVE SUB-CAT 5.1 OUTDOOR SOLUTION

MICROWAVE SUB-CAT 5.2 INDOOR SOLUTION

MICROWAVE SUB-CAT 5.2 OUTDOOR SOLUTION

MICROWAVE SUB-CAT 5.5 INDOOR SOLUTION

MICROWAVE SUB-CAT 5.5 OUTDOOR SOLUTION

This Cooperative Purchasing Master Agreement (“Cooperative Purchasing Master Agreement”) is made and entered into by and between Enterprise Services acting by and through the State of Washington (“Enterprise Services”) and Nokia of America Corporation, a Delaware corporation (“Contractor”) and is dated and effective as of January 1, 2022.

RECITALS

- A. Pursuant to Legislative authorization, Enterprise Services, on behalf of the State of Washington, is authorized to develop, solicit, and establish Cooperative Purchasing Master Agreements for goods and services to support Washington state agencies. See RCW 39.26.050(1). The Washington State Legislature has authorized Enterprise Services to make these Cooperative Purchasing Master Agreements available, pursuant to agreement in which Enterprise Services ensures full cost recovery, to other local or federal government agency or entity, public benefit nonprofit organizations, or any tribes located in the State of Washington. See RCW 39.26.050(1) & (2).
- B. The Washington State Legislature also has authorized Enterprise Services to participate in, sponsor, conduct, or administer certain cooperative purchasing agreements for the procurement of goods or services. See RCW 39.26.060(1). One of the approaches that Enterprise Services utilizes to participate in cooperative purchasing agreements with other states is NASPO ValuePoint.
- C. NASPO Cooperative Purchasing Organization LLC, doing business as NASPO ValuePoint, is a nonprofit subsidiary of the National Association of State Procurement Officials (NASPO). The NASPO ValuePoint purchasing cooperative program is led by state procurement officers from member states. NASPO ValuePoint does not award contracts; rather, it assists states, for an administrative fee, in their collaboration pertaining to solicitations and the resulting master agreements.
- D. Pursuant to the NASPO ValuePoint cooperative purchasing model, a state serves as the ‘lead state’ to conduct a competitive procurement in compliance with that state’s procurement laws and award a cooperative purchasing master agreement with a contractor for the specified goods or services. States (including the District of Columbia

and the organized territories of the United States), including the lead state, then may participate in that cooperative purchasing master agreement by executing a Participating Addendum. Until a Participating Addendum is executed by the applicable state (a 'participating entity'), no agency or other eligible organization (a 'purchasing entity') may purchase pursuant to the cooperative purchasing master agreement. Under Washington law, at the time of solicitation, states may provide supplemental substantive terms and conditions to inform the competitive procurement. In addition, pursuant to their Participating Addendum, states may require certain administrative terms and conditions (e.g., a vendor management fee for sales within the state, state registration and reporting). Contractor, however, has no obligation to condition execution of a Participating Addendum on substantive terms and conditions that were not competitively procured.

- E. Enterprise Services, as part of a cooperative purchasing competitive governmental procurement, with administrative support from NASPO ValuePoint, issued Competitive Solicitation No. 00318 dated November 16, 2020 regarding Public Safety Communications Products, Services and Solutions ("Public Safety Radio"). Sixteen (16) states indicated an intent to utilize the resulting Cooperative Purchasing Master Agreement.
- F. Enterprise Services and a stakeholder team consisting of representatives from Washington, California, Alaska, Oregon, Montana, Tennessee, Colorado and Nevada evaluated all responsive bids to the Competitive Solicitation and identified Contractor as an Apparent Successful Bidder for the Categories identified above.
- G. Enterprise Services determined that entering into this Cooperative Purchasing Master Agreement will meet the cooperative purchasing needs and be in the best interest of the State of Washington.
- H. The purpose of this Cooperative Purchasing Master Agreement is to enable Participating or Purchasing Entities to purchase Public Safety Radio products and services, in the awarded Categories as set forth herein.

AGREEMENT

NOW THEREFORE, in consideration of the mutual promises, covenants, and conditions set forth herein, the parties hereto hereby agree as follows:

- 1. TERM.** The term of this Cooperative Purchasing Master Agreement begins January 1, 2022 and ends on December 31, 2026; provided, however that, the contract term shall be extended for twenty-four (24) months if, in Enterprise Services' sole, reasonable judgement, which shall occur no later than June 30, 2025, Contractor meets the following performance metrics:
 - Reports: Contractor provides timely and accurate reports as detailed in this Master Agreement and Participating Addendums; and
 - Administrative Fee Payments: Contractor provides timely and accurate Administrative Fee payments as detailed in this Master Agreement and Participating Addendums.

Notwithstanding any provision to the contrary, to effectuate a smooth transition for Participating States and Purchasing Entities for Public Safety Communications Products, Services and Solutions to begin on January 1, 2022, Contractor shall provide implementation and transition support to

Participating States who wish to utilize the Cooperative Purchasing Master Agreement, beginning upon the date such Participating State and Contractor executes a Participating Addendum. For the avoidance of doubt, no orders for products or services shall be made under this Agreement prior to January 1, 2022.

2. **PARTICIPANTS AND SCOPE.** This Cooperative Purchasing Master Agreement may be utilized under the following conditions:
 - 2.1. **PARTICIPATING ENTITIES.** Contractor may not sell Public Safety Radio products and services under this Cooperative Purchasing Master Agreement until a Participating Addendum acceptable to the Participating Entity and Contractor is executed. The terms and conditions set forth in the Cooperative Purchasing Master Agreement are applicable to any Purchase Order by a Participating Entity (and other Purchasing Entities covered by their Participating Addendum), except to the extent altered, modified, supplemented, or amended by a Participating Addendum; *Provided*, however, that no Participating Addendum shall operate to alter or modify any substantive terms of this Cooperative Purchasing Master Agreement which were solicited and procured pursuant to a competitive procurement. By way of illustration and not limitation, Participating Entities may include unique administrative, delivery, and invoicing requirements, as well as entity-specific confidentiality requirements and similar entity-specific administrative requirements in Purchase Orders utilizing this Cooperative Purchasing Master Agreement.
 - 2.2. **PURCHASING ENTITIES.** Purchasing Entity means a state (as well as the District of Columbia and U.S territories), city, county, district, other political subdivision of a State, and a nonprofit organization under the laws of some states if authorized by a Participating Addendum, that issues a Purchase Order or other commitment document against the Cooperative Purchasing Master Agreement and becomes financially committed to the purchase.
 - 2.3. **PARTICIPATING ADDENDUM.** Obligations under this Cooperative Purchasing Master Agreement are limited to those Participating Entities who have signed a Participating Addendum and Purchasing Entities within the scope of those Participating Addenda. States or other entities permitted to participate may use an informal competitive or other process to determine which Cooperative Purchasing Master Agreements to participate in through execution of a Participating Addendum. Financial obligations of Participating Entities who are states are limited to the orders placed by the departments or other state agencies and institutions having available funds. Participating Entities who are states incur no financial obligations on behalf of other Purchasing Entities. Contractor shall email a fully executed PDF copy of each Participating Addendum as instructed by the Lead State to support documentation of participation and posting in appropriate databases.
 - 2.4. **PURCHASING ENTITY RIGHTS.** Except to the extent modified by a Participating Addendum, each Purchasing Entity shall follow the terms and conditions of the Cooperative Purchasing Master Agreement and applicable Participating Addendum and will have the same rights and responsibilities for their purchases as the Lead State has in the Cooperative Purchasing Master Agreement, including but not limited to, any indemnity or right to recover any costs as such right is defined in the Cooperative Purchasing Master Agreement and applicable Participating Addendum for their purchases. Each Purchasing Entity will be responsible for its own charges, fees, and liabilities. Contractor will apply the charges and invoice each Participating Entity individually.

- 2.5. PARTICIPATING ADDENDUM APPROVAL. Participating Entities who are not states may under some circumstances sign their own Participating Addendum, subject to the approval of participation by the Chief Procurement Official of the state where the Participating Entity is located. Coordinate requests for such participation through NASPO ValuePoint. Any permission to participate through execution of a Participating Addendum is not a determination that procurement authority exists in the Participating Entity; they must ensure that they have the requisite procurement authority to execute a Participating Addendum.

3. SCOPE – INCLUDED GOODS/SERVICES AND PRICE.

- 3.1. CONTRACT SCOPE. Pursuant to this Cooperative Purchasing Master Agreement, Contractor is authorized to sell only those Public Safety Radio Products and Services in the categories above posted on the NASPO ValuePoint website. Contractor shall not represent to any Participating or Purchasing Entity under this Cooperative Purchasing Master Agreement that Contractor has contractual authority to sell any Public Safety Radio Products beyond those approved and posted on the NASPO ValuePoint website.
- 3.2. MINIMUM WARRANTY FOR INCLUDED GOODS/SERVICES. Notwithstanding any provision to the contrary, Contractor agrees to and is providing a minimum warranty of no less than one (1) year for any goods/services included in this Cooperative Purchasing Master Agreement. Such minimum warranty begins when the goods/services are accepted by Purchasing Entity or as agreed by Purchasing Entity in its ordering documentation. Such minimum warranty includes all firmware and software updates within warranty period. Parts and related software will be free from defects in material and workmanship for one (1) year. If a product fails because of a defect in workmanship or materials within one (1) year from the date of acceptance by Purchasing Entity, manufacture shall repair or replace the product or part with a new product or part without charge to Purchasing Entity.
- 3.3. ADDITIONAL WARRANTY OPTIONS – See Nokia of America Corporation Pricing Document on the NASPO ValuePoint website for descriptions and pricing for all available warranty options.
- 3.4. AVAILABLE SERVICES – See Nokia of America Corporation Pricing Document on the NASPO ValuePoint website for descriptions and pricing for all available services.
- 3.5. ABILITY TO MODIFY SCOPE OF COOPERATIVE PURCHASING MASTER AGREEMENT. Subject to mutual agreement between the parties, Enterprise Services, acting as the lead state, reserves the right to modify the Public Safety Radio Products included in this Cooperative Purchasing Master Agreement; *Provided*, however, that any such modification shall be effective only upon thirty (30) days advance written notice; and *Provided further*, that any such modification must be within the scope of this competitively procured Cooperative Purchasing Master Agreement. In no event shall such modification, if authorized by Enterprise Services, limit the requirement for cooperative purchasing agreements to be subject to competitive procurement.
- 3.6. PRODUCT UPDATES. Upon approval, Contractor may update their products/pricelist on a semi-annual basis. Contractor must submit to the Lead Contract Administrator a revised product/pricelist highlighting changes and include an effective date of the change. At no time during the contract term shall products be deleted from the products/pricelist. Discontinued products/services must be struck-through and highlighted for ease of review process. Product/pricelist updates must be submitted for review and approval to the Lead Contract

Administrator thirty (30) days prior to the effective date of the change. All products/pricelist will be posted on the NASPO ValuePoint website.

Product updates for January 1st through June 30th must be submitted to Lead State Contract Administrator by June 1st to be eligible for product updates effective July 1st. Product updates for July 1st through December 31st must be submitted to the Lead State Contract Administrator by December 1st to be eligible for product updates effective January 1st. Additional product updates may be considered for approval with proper thirty (30) day notice at the discretion of the Lead State.

Semi-Annual	Submitted By	Effective Date
January 1-June 30	June 1 st	July 1 st
July 1-December 31	December 1 st	January 1 st

System Solution providers may update their list of available products quarterly. Quarterly means the last day of each calendar quarter, see below.

Quarter	Submitted By	Effective Date
January 1-March 30	March 1 st	April 1 st
April 1-June 30	June 1 st	July 1 st
July 1- September 30	September 1 st	October 1 st
October 1-December 31	December 1 st	January 1 st

All System Solution available product options will be posted on the NASPO ValuePoint website. A minimum of thirty-three percent (33%) of the components offered in a complete Radio or Microwave System Solution must be manufactured by the Awarded Contractor. Enterprise Services reserves the right to audit System Solution orders for compliance. Updates to System Solution available products must be submitted to the Lead Contract Administrator thirty (30) days prior to the effective date of the change. Additional product options may be considered for approval with proper thirty (30) day notice at the discretion of the Lead State.

- 3.7. **ECONOMIC ADJUSTMENTS.** All pricing must be guaranteed for the first year of the Cooperative Purchasing Master Agreement. Following the guarantee period, any request for price increases must be for an equal guarantee period (1 year), and must be submitted to the Lead State at least thirty (30) calendar days prior to the effective date. The Lead State will review a documented request for an MSRP price list increase only after the Price Guarantee Period.

Requests for price increases must include sufficient documentation supporting the request and demonstrating the reasonableness of the adjustment when comparing the current price list to the proposed price list. Documentation may include: the manufacturer's national price increase announcement letter, a complete and detailed description of what products are increasing and by what percentage, a complete and detailed description of what raw materials and/or other costs have increased and provide proof of increase, index data and other information to support and justify the increase. The price increase must not produce a higher profit margin than the original contract, and must be accompanied by sufficient documentation and nationwide notice of price adjustment to the published manufacturer's price list. No retroactive price increases will be allowed.

Price Reductions. In the event of a price decrease in any category of product at any time during the contract in an OEM's published manufacturer's price list, including renewal options, the Lead State shall be notified immediately. All published manufacturer's price list price reductions shall be effective upon the notification provided to the Lead State.

Enterprise Services reserves the right to request clarification and justification for requested Economic Adjustments.

Economic Price Adjustment requests for January 1st through June 30th must be submitted to Lead State Contract Administrator by June 1st to be eligible for product updates effective July 1st. Economic Price Adjustment requests for July 1st through December 31st must be submitted to the Lead State Contract Administrator by December 1st to be eligible for product updates effective January 1st.

Semi-Annual	Submitted By	Effective Date
January 1-June 30	June 1 st	July 1 st
July 1-December 31	December 1 st	January 1 st

3.8. **PRICE CEILING.** Although Contractor may offer lower prices, including volume discounts, to Purchasing Entity, during the term of this Cooperative Purchasing Master Agreement, Contractor guarantees to provide the Goods/Services at no greater than the prices set forth approved and posted on the NASPO ValuePoint website.

3.9. **COOPERATIVE PURCHASING MASTER AGREEMENT INFORMATION.** Enterprise Services shall maintain and provide information regarding this Cooperative Purchasing Master Agreement, including scope and pricing, to eligible Purchasing Entity.

3.10. **CONTRACTOR RESPONSIBILITIES.** Contractor shall be responsible for successful performance of the Cooperative Purchasing Master Agreement and also for the successful performance of any and all of their partners. Contractor is to be the sole point of contact as applicable by Cooperative Purchasing Master Agreement with regard to contractual matters, payment of any and all charges resulting from the purchase of the products and maintenance of the product for the term of the Cooperative Purchasing Master Agreement unless otherwise specified by a Participating State in a Participating Addendum and/or the Cooperative Purchasing Master Agreement. Contractor must be able to receive, process, and invoice orders unless the Participating State has agreed to assign these functions to a partner. Contractor will be responsible for compliance with requirements under the Cooperative Purchasing Master Agreement, even if requirements are delegated to partners. Contractor and partners must not in any way represent themselves in the name of the Lead State, NASPO ValuePoint or Participating States.

4. CONTRACTOR REPRESENTATIONS AND WARRANTIES. Contractor makes each of the following representations and warranties as of the effective date of this Cooperative Purchasing Master Agreement and at the time any order is placed pursuant to this Cooperative Purchasing Master Agreement. If, at the time of any such order, Contractor cannot make such representations and warranties, Contractor shall not process any orders and shall, within three (3) business days notify Enterprise Services, in writing, of such breach.

4.1. **QUALIFIED TO DO BUSINESS.** Contractor represents and warrants that it is in good standing and qualified to do business in the State of Washington, that it is registered with the Washington

State Department of Revenue and the Washington Secretary of State, that it possesses and shall keep current all required licenses and/or approvals, and that it is current, in full compliance, and has paid all applicable taxes owed to the State of Washington. Contractor further represents and warrants that, within fifteen (15) days of executing any Participating Addendum and prior to making any sales pursuant to such Participating Addendum, Contractor shall be in good standing and qualified to do business in such state and that Contractor properly shall have registered to do business in such state, shall possess and shall keep current all required licenses and/or approvals, and that it shall be current, in full compliance, and have paid all applicable taxes owed to such state.

- 4.2. **SUSPENSION & DEBARMENT.** Contractor represents and warrants that neither it nor its principals or affiliates presently are debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in any governmental contract by any governmental department or agency within the United States.
- 4.3. **QUALITY OF GOODS OR SERVICES.** Contractor represents and warrants that any goods and/or services sold pursuant to this Cooperative Purchasing Master Agreement shall be merchantable, shall conform to this Cooperative Purchasing Master Agreement and Purchasing Entity's Purchase Order, shall be fit and safe for the intended purposes, shall be free from defects in materials and workmanship, and shall be produced and delivered in full compliance with applicable law. Contractor further represents and warrants it has clear title to the goods and that the same shall be delivered and the services provided free of liens and encumbrances and that the same do not infringe any third party patent. Upon breach of warranty, Contractor will repair or replace (at no charge to Purchasing Entity) any goods and/or services whose nonconformance is discovered and made known to the Contractor. If, in Purchasing Entity's judgment, repair or replacement is inadequate, or fails of its essential purpose, Contractor will refund the full amount of any payments that have been made. The rights and remedies of the parties under this warranty are in addition to any other rights and remedies of the parties provided by law or equity, including, without limitation, actual damages, and, as applicable and awarded under the law, to a prevailing party, reasonable attorneys' fees and costs.
- 4.4. **WAGE VIOLATIONS.** Contractor represents and warrants that, during the term of this Cooperative Purchasing Master Agreement and the three (3) year period immediately preceding the award of the Cooperative Purchasing Master Agreement, it is not determined, by a final and binding citation and notice of assessment issued by the Washington Department of Labor and Industries or through a civil judgment entered by a court of limited or general jurisdiction, to be in willful violation of any provision of Washington state wage laws set forth in RCW 49.46, 49.48, or 49.52.
- 4.5. **PAY EQUALITY.** Contractor represents and warrants that, among its workers, similarly employed individuals are compensated as equals. For purposes of this provision, employees are similarly employed if the individuals work for the same employer, the performance of the job requires comparable skill, effort, and responsibility, and the jobs are performed under similar working conditions. Job titles alone are not determinative of whether employees are similarly employed. Contractor may allow differentials in compensation for its workers based in good faith on any of the following: a seniority system; a merit system; a system that measures earnings by quantity or quality of production; a bona fide job-related factor or factors; or a bona fide regional difference in compensation levels. A bona fide job-related factor or factors may include, but not be limited to, education, training, or experience that is: consistent with

business necessity; not based on or derived from a gender-based differential; and accounts for the entire differential. A bona fide regional difference in compensation level must be consistent with business necessity; not based on or derived from a gender-based differential; and account for the entire differential. Notwithstanding any provision to the contrary, upon breach of warranty and Contractor's failure to provide satisfactory evidence of compliance within thirty (30) days, Enterprise Services may suspend or terminate this Cooperative Purchasing Master Agreement and any Purchasing Entity hereunder similarly may suspend or terminate its use of the Cooperative Purchasing Master Agreement and/or any agreement entered into pursuant to this Cooperative Purchasing Master Agreement.

- 4.6. EXECUTIVE ORDER 18-03 – WORKERS' RIGHTS. Contractor represents and warrants, as previously certified in Contractor's Bidder's Certification, that Contractor does NOT require its employees, as a condition of employment, to sign or agree to mandatory individual arbitration clauses or class or collective action waivers. Contractor further represents and warrants that, during the term of this Cooperative Purchasing Master Agreement, Contractor shall not, as a condition of employment, require its employees to sign or agree to mandatory individual arbitration clauses or class or collective action waivers.
- 4.7. PROCUREMENT ETHICS & PROHIBITION ON GIFTS. Contractor represents and warrants that it complies fully with all applicable procurement ethics restrictions including, but not limited to, restrictions against Contractor providing gifts or anything of economic value, directly or indirectly, to Purchasing Entity's employees.
- 4.8. WASHINGTON'S ELECTRONIC BUSINESS SOLUTION (WEBS). Contractor represents and warrants that it is registered in Washington's Electronic Business Solution (WEBS), Washington's contract registration system and that, all of its information therein is current and accurate and that throughout the term of this Cooperative Purchasing Master Agreement, Contractor shall maintain an accurate profile in WEBS.
- 4.9. STATEWIDE PAYEE DESK. Contractor represents and warrants that it is registered with the Washington Statewide Payee Desk, which registration is a condition to payment.
- 4.10. COOPERATIVE PURCHASING MASTER AGREEMENT PROMOTION; ADVERTISING AND ENDORSEMENT. Contractor represents and warrants that it shall use commercially reasonable efforts both to promote and market the use of this Cooperative Purchasing Master Agreement with eligible Purchasing Entity and to ensure that those entities that utilize this Cooperative Purchasing Master Agreement are eligible Purchasing Entity. Contractor understands and acknowledges that neither Enterprise Services nor Purchasing Entity are endorsing Contractor's goods and/or services or suggesting that such goods and/or services are the best or only solution to their needs. Accordingly, Contractor represents and warrants that it shall make no reference to Enterprise Services, any Purchasing Entity, or the State of Washington in any promotional material without the prior written consent of Enterprise Services.
- 4.11. COOPERATIVE PURCHASING MASTER AGREEMENT TRANSITION. Contractor represents and warrants that, in the event this Cooperative Purchasing Master Agreement or a similar contract, is transitioned to another contractor (e.g., Cooperative Purchasing Master Agreement expiration or termination), Contractor shall use commercially reasonable efforts to assist Enterprise Services for a period of sixty (60) days to effectuate a smooth transition to another contractor to minimize disruption of service and/or costs to the State of Washington.

- 4.12. SUB-CONTRACTORS, AUTHORIZED RESELLERS/DEALERS. MANUFACTURER'S REPRESENTATIVE (PARTNERS). If utilizing partners, Contractor is responsible for such partners providing products and services, as well as warranty and maintenance services for any product or solution such partners provide pursuant to this Cooperative Purchasing Master Agreement. Pursuant to their applicable Participating Addendum, each Participating Entity may allow or disallow Contractor to utilize Partners. Only partners approved by the Participating Entity may be utilized. The Participating Entity will define the process to add and remove partners in their Participating Addendum.

5. USING THE COOPERATIVE PURCHASING MASTER AGREEMENT – PURCHASES.

- 5.1. ORDERING REQUIREMENTS. Eligible Purchasing Entity shall order goods and/or services from this Cooperative Purchasing Master Agreement, consistent with the terms hereof and by using any ordering mechanism agreeable both to Contractor and Purchasing Entity but, at a minimum, including the use of a purchase order. When practicable, Contractor and Purchasing Entity also shall use telephone orders, email orders, web-based orders, and similar procurement methods (collectively "Purchasing Entity Order"). All order documents must reference the Cooperative Purchasing Master Agreement number. The terms of this Cooperative Purchasing Master Agreement shall apply to any Purchase Order and, in the event of any conflict, the terms of this Cooperative Purchasing Master Agreement shall prevail. Notwithstanding any provision to the contrary, in no event shall any 'click-agreement,' software or web-based application terms and conditions, or other agreement modify the terms and conditions of this Cooperative Purchasing Master Agreement.

Solution components must be equal to or greater than thirty-three percent (33%) manufactured by the Contractor. Prior to executing an order for a "Solution", Contractor shall provide Purchasing Entity a detailed Cost Proposal itemizing all proposed costs (including labor costs, employee benefits, travel, overhead and other direct costs) Contractor estimates it will incur in the performance of the work.

- (a) All order documents must, at a minimum, reference
 - the Cooperative Purchasing Master Agreement number;
 - The place and requested time of delivery;
 - A billing address;
 - The name, phone number, and address of the Participating Entity representative;
- (b) All communications concerning administration of Orders placed shall be furnished solely to the authorized purchasing agent within the Participating Entity's purchasing office, or to such other individual identified in writing in the Order.
- (c) Orders must be placed pursuant to this Cooperative Purchasing Master Agreement prior to the termination date thereof, but may have a delivery date or performance period up to 120 days thereafter.
- (d) Notwithstanding the expiration, cancellation or termination of this Cooperative Purchasing Master Agreement, Contractor agrees to perform in accordance with the terms of any Orders then outstanding at the time of such expiration or

termination. Contractor shall not honor any Orders placed after the expiration, cancellation, or termination of this Cooperative Purchasing Master Agreement, or otherwise inconsistent with its terms. Orders from any separate indefinite quantity, task orders, or other form of indefinite delivery order arrangement priced against this Cooperative Purchasing Master Agreement may not be placed after the expiration or termination of this Cooperative Purchasing Master Agreement, notwithstanding the term of any such indefinite delivery order agreement.

5.2. DELIVERY REQUIREMENTS. Contractor must ensure that delivery of goods and/or services will be made as required by this Cooperative Purchasing Master Agreement, the Purchase Order used by Purchasing Entity, or as otherwise mutually agreed in writing between the Purchasing Entity and Contractor. The following apply to all deliveries:

- (a) Contractor shall make all deliveries to the applicable delivery location specified in the Purchase Order. Such deliveries shall occur during Purchasing Entity's normal work hours and within the time period mutually agreed in writing between Purchasing Entity and Contractor at the time of order placement. Deliveries to be off-loaded at Purchasing Entity's receiving dock or designated job site by Contractor.
- (b) Contractor shall ship all goods purchased pursuant to this Master Agreement FOB Purchasing Entity's specified destination. Shipping charges must be mutually agreed to between Purchasing Entity and Contractor, and shall be added as a separate line item on the Contractor's invoice. Contractor shall bear all risk of loss, damage, or destruction of the goods ordered hereunder that occurs prior to delivery, except loss or damage attributable to Purchasing Entity's fault or negligence.
- (c) All products must be delivered in the manufacturer's standard package. Costs shall include all packing and/or crating charges. Cases shall be of durable construction, good condition, properly labeled and suitable in every respect for storage and handling of contents. Each shipping carton shall be marked with the commodity, brand, quantity, item code number and the Purchasing Entity's Purchase Order number.
- (d) All packing lists, packages, instruction manuals, correspondence, shipping notices, shipping containers, and other written materials associated with this Cooperative Purchasing Master Agreement shall be identified by the Cooperative Purchasing Master Agreement number set forth on the cover of this Cooperative Purchasing Master Agreement and the applicable Purchase Order number. Packing lists shall be enclosed with each shipment and clearly identify all contents and any backorders.
- (e) Purchasing Entities may return unopened or unused (non-specialty) Public Safety Radio products within ten (10) business days of receipt for full credit, minus any freight or restocking fee. In such event, Contractor is responsible for shipping costs pertaining to any defective Public Safety Radio Products that are returned.

5.3. RECEIPT AND INSPECTION OF GOODS AND/OR SERVICES. Goods and/or services purchased under this Cooperative Purchasing Master Agreement are subject to Purchasing Entity's reasonable inspection, testing, and approval at Purchasing Entity's destination. Such inspection and

approval shall be determined within thirty (30) days of delivery. Purchasing Entity reserves the right to reject and refuse acceptance of goods and/or services that are not in accordance with this Cooperative Purchasing Master Agreement and Purchasing Entity's Purchase Order. Purchasing Entity may charge Contractor for the cost of inspecting rejected goods. If there are any apparent defects in the goods and/or services at the time of delivery, Purchasing Entity will notify Contractor within five (5) business days. At Purchasing Entity's option, and without limiting any other rights, Purchasing Entity may require Contractor to, consistent with the warranty terms, repair or replace, at Contractor's expense, any or all of the damaged goods and/or services or, at Purchasing Entity's option, Purchasing Entity may note any damage to the goods and/or services on the receiving report, decline acceptance, and deduct the cost of rejected goods and/or services from final payment. Payment for any goods under such Purchase Order shall not be deemed acceptance of the goods.

- (a) All Products are subject to inspection at reasonable times and places before Acceptance. Contractor shall provide right of access to the Lead State, or to any other authorized agent or official of the Lead State or other Participating or Purchasing Entity, at reasonable times, in order to monitor and evaluate performance, compliance, and/or quality assurance requirements under this Cooperative Purchasing Master Agreement. Products that do not meet specifications may be rejected. Failure to reject upon receipt, however, does not relieve Contractor of liability for material (nonconformity that substantially impairs value) latent or hidden defects subsequently revealed when the Public Safety Radio Products are put to use. Acceptance of such Public Safety Radio Products may be revoked in accordance with the provisions of the applicable commercial code, and Contractor shall be liable for any resulting expense incurred by the Purchasing Entity related to the preparation and shipping of any Public Safety Radio Products rejected and returned, or for which Acceptance is revoked.
 - (b) If any Public Safety Radio Products do not conform to the specifications, the Purchasing Entity may require the Contractor to repair or replace the Public Safety Radio Product in conformity with the specifications.
- 5.4. ON SITE REQUIREMENTS. While on Purchasing Entity's premises, Contractor, its agents, employees, or subcontractors shall comply, in all respects, with Purchasing Entity's physical, fire, access, safety, and other security requirements.
- 5.5. INSTALLATION. Installation shall be performed by Contractor or Sub-Contractor, in a professional manner in accordance with industry standard best practices. The premises shall be left in a neat, clean, and undamaged condition. Purchasing Entity reserves the right to require Contractor or Sub-Contractor to repair any damage caused during installation or provide full compensation as determined by Purchasing Entity.
- 5.6. CONFIDENTIALITY; SAFEGUARDING OF INFORMATION. Contractor shall not use or disclose any information concerning Enterprise Services/the State of Washington or Purchasing Entity's information which may be classified as confidential, for any purpose not directly connected with the administration of this Cooperative Purchasing Master Agreement, except with prior written consent of Enterprise Services (or the applicable Purchasing Entity), or as may be required by law.

- 5.7. **TREATMENT OF ASSETS.** Title to all property furnished by any Participating State and/or Purchasing Entity shall remain with such Participating State and/or Purchasing Entity, as applicable. Any property of any Participating State and/or Purchasing Entity furnished to Contractor shall, unless otherwise provided herein or approved by such Participating State and/or Purchasing Entity, be used only for the performance of this Cooperative Purchasing Master Agreement. Contractor shall be responsible for damages as a result of any loss or damage to property of any Participating State and/or Purchasing Entity to the extent it results from the negligence of Contractor or to the extent it results from the failure on the part of Contractor to maintain, administer and protect that property in a reasonable manner and to the extent practicable in all instances. If any such Participating State and/or Purchasing Entity property is lost, destroyed, or damaged, Contractor immediately shall notify such Participating State and/or Purchasing Entity and shall take all reasonable steps to protect the property from further damage. Contractor shall surrender to such Participating State and/or Purchasing Entity all property of such Participating State and/or Purchasing Entity prior to settlement upon completion, termination, or cancellation of this Cooperative Purchasing Master Agreement. Title to all property furnished by Contractor, the cost for which the Contractor is entitled to be reimbursed as a direct item of cost under this Contract, shall pass to and vest in the Purchasing Entity upon delivery of such property by Contractor and acceptance by the Purchasing Entity. Title to other property, the cost of which is reimbursable to Contractor under this Contract, shall pass to and vest in the Purchasing Entity upon (i) issuance for use of such property in the performance of this Contract, or (ii) commencement of use of such property in the performance of this Contract, or (iii) reimbursement of the cost thereof by the Purchasing Entity in whole or in part, whichever first occurs. All reference to Contractor under this clause shall also include Contractor's employees, agents or subcontractors. Title to software shall not pass to Purchasing Entity but shall be licensed. All reference to Contractor under this clause shall also include Contractor's employees, agents or subcontractors.
- 5.8. **SOFTWARE LICENSE AGREEMENT.** If the public safety communications equipment ordered and delivered under the term and conditions of this Cooperative Purchasing Master Agreement requires software or firmware to operate, Purchasing Entity and Contractor will mutually agree to Contractor's Software license shall apply to such transaction. Contractor's software license agreement shall not conflict with the terms and conditions of this Cooperative Purchasing Master Agreement or specific security requirements of Participating Entity. Contractor grants to the Purchasing Entity a nonexclusive, perpetual, royalty-free, limited license to publish, translate, reproduce, deliver, perform, display, and dispose of the Intellectual Property, and its derivatives, used or delivered under this Cooperative Purchasing Master Agreement, but not created under it ("Pre-existing Intellectual Property"). The license shall be subject to any third-party rights in the Pre-existing Intellectual Property. Contractor shall obtain, at its own expense, on behalf of the Purchasing Entity, written consent of the owner for the licensed Pre-existing Intellectual Property.
- 5.9. **SUBSCRIPTION SERVICES AGREEMENT.** If the public safety communications equipment ordered and delivered under the term and conditions of this Contract requires subscription services to operate, Purchasing Entity and Contractor will mutually agree to Contractor's Subscription Services Agreement shall apply to such transaction. Contractor's Subscription Services Agreement shall not conflict with the terms and conditions of this Master Agreement or the specific security requirements of Participating Entity.

6. INVOICING & PAYMENT.

6.1. **CONTRACTOR INVOICE.** Contractor shall submit to Purchasing Entity's designated invoicing contact properly itemized invoices. Such invoices shall itemize the following:

- Cooperative Purchasing Master Agreement No. 00318
- Contractor name, address, telephone number, and email address for billing issues (i.e., Contractor Customer Service Representative)
- Contractor's Federal Tax Identification Number
- Date(s) of delivery
- Applicable goods/services
- Invoice amount; and
- Payment terms, including any available prompt payment discounts.

Contractor's invoices for payment shall reflect accurate Cooperative Purchasing Master Agreement prices, less discounts or lower negotiated costs. Invoices will not be processed for payment until receipt of a complete invoice as specified herein.

6.2. **PAYMENT.** Payment is the sole responsibility of, and will be made by, the Purchasing Entity. Payment is due within thirty (30) days of invoice. If Purchasing Entity fails to make timely payment(s), Contractor may invoice Purchasing Entity in the amount of one percent (1%) per month on the amount overdue or a minimum of \$1. Payment will not be considered late if a check or warrant is mailed within the time specified.

6.3. **OVERPAYMENTS.** Contractor promptly shall refund to Purchasing Entity the full amount of any erroneous payment or overpayment. Such refunds shall occur within thirty (30) days of written notice to Contractor; *Provided*, however, that Purchasing Entity shall have the right to elect to have either direct payments or written credit memos issued. If Contractor fails to make timely payment(s) or issuance of such credit memos, Purchasing Entity may impose a one percent (1%) per month on the amount overdue thirty (30) days after notice to the Contractor.

6.4. **NO ADVANCE PAYMENT.** No advance payment shall be made for the products and services furnished by Contractor pursuant to this Cooperative Purchasing Master Agreement; *Provided*, however, that the parties agree that maintenance payments, if any, may be made on a quarterly basis at the beginning of each quarter.

6.5. **NO ADDITIONAL CHARGES.** Unless otherwise specified herein, Contractor shall not include or impose any additional charges including, but not limited to, charges for shipping, handling, or payment processing.

6.6. **TAXES/FEES.** Contractor promptly shall pay all applicable taxes on its operations and activities pertaining to this Cooperative Purchasing Master Agreement. Failure to do so shall constitute breach of this Cooperative Purchasing Master Agreement. Unless otherwise agreed, Purchasing Entity shall pay applicable sales tax imposed by the State of Washington on purchased goods and/or services. In regard to federal excise taxes, Contractor shall include federal excise taxes only if, after thirty (30) calendar days written notice to Purchasing Entity, Purchase has not provided Contractor with a valid exemption certificate from such federal excise taxes.

7. CONTRACT MANAGEMENT.

- 7.1. **CONTRACT ADMINISTRATION & NOTICES.** Except for legal notices, the parties hereby designate the following contract administrators as the respective single points of contact for purposes of this Cooperative Purchasing Master Agreement. Enterprise Services' contract administrator shall provide Cooperative Purchasing Master Agreement oversight. Contractor's contract administrator shall be Contractor's principal contact for business activities under this Cooperative Purchasing Master Agreement. The parties may change contractor administrators by written notice as set forth below.

Any notices required or desired shall be in writing and sent by U.S. mail, postage prepaid, or sent via email, and shall be sent to the respective addressee at the respective address or email address set forth below or to such other address or email address as the parties may specify in writing:

Enterprise Services

Attn: Contract Administrator 00318
Washington Dept. of Enterprise Services
PO Box 41411
Olympia, WA 98504-1411
Tel: (360) 407-2218
Email: DESContractsTeamCypress@des.wa.gov

Nokia of America Corporation

Attn: Eric Negley
600 Mountain Avenue
Murray Hill, NJ 07974
Tel: (908) 679-6514
Email: eric.negley@nokia.com

Notices shall be deemed effective upon the earlier of receipt, if mailed, or, if emailed, upon transmission to the designated email address of said addressee.

- 7.2. **CONTRACTOR CUSTOMER SERVICE REPRESENTATIVE.** Contractor shall designate a customer service representative (and inform Enterprise Services of the same) who shall be responsible for addressing Purchasing Entity issues pertaining to this Cooperative Purchasing Master Agreement.
- 7.3. **LEGAL NOTICES.** Any legal notices required or desired shall be in writing and delivered by U.S. certified mail, return receipt requested, postage prepaid, or sent via email, and shall be sent to the respective addressee at the respective address or email address set forth below or to such other address or email address as the parties may specify in writing:

Enterprise Services

Attn: Legal Services Manager
Washington Dept. of Enterprise Services
PO Box 41411
Olympia, WA 98504-1411
Email: greg.tolbert@des.wa.gov

Nokia of America Corporation

Attn: Head of Legal & Compliance
600 Mountain Avenue
Murray Hill, NJ 07974
Email: jody.bishop@nokia.com

Notices shall be deemed effective upon the earlier of receipt when delivered, or, if mailed, upon return receipt, or, if emailed, upon transmission to the designated email address of said addressee.

8. NASPO VALUEPOINT SUMMARY AND DETAILED USAGE REPORTS.

- 8.1. **SUMMARY SALES DATA.** Contractor shall submit quarterly sales reports directly to NASPO ValuePoint using the NASPO ValuePoint Quarterly Sales/Administrative Fee Reporting Tool found at <http://www.naspo.org/WNCPO/Calculator.aspx>. Any/all sales made under this

Cooperative Purchasing Master Agreement shall be reported as cumulative totals by state. Even if Contractor experiences zero sales during a calendar quarter, a report is still required. Reports shall be due no later than thirty (30) days following the end of the calendar quarter (as specified in the reporting tool).

- 8.2. DETAILED SALES DATA. Contractor also shall report detailed sales data by: (1) state; (2) entity/customer type, e.g. local government, higher education, K12, non-profit; (3) Participating Entity name; (4) Participating Entity bill-to and ship-to locations; (4) Participating Entity and Contractor Purchase Order identifier/number(s); (5) Purchase Order Type (e.g. sales order, credit, return, upgrade, determined by industry practices); (6) Purchase Order date; (7) Ship Date; and (8) line item description, including product number if used. Reports are due on a quarterly basis and must be received by the Enterprise Services and NASPO ValuePoint Cooperative Development Team no later than thirty (30) days after the end of the reporting period. Reports shall be delivered to Enterprise Services and to the NASPO ValuePoint Cooperative Development Team electronically through a designated portal, email, CD-ROM, flash drive or other method as determined by Enterprise Services and NASPO ValuePoint. Detailed sales data reports shall include sales information for all sales under Participating Addenda executed under this Cooperative Purchasing Master Agreement.
- 8.3. NASPO VALUEPOINT EXECUTIVE SUMMARY. Contractor shall provide the NASPO ValuePoint Cooperative Development Coordinator with an executive summary each quarter that includes, at a minimum, a list of states with an active Participating Addendum, states that Contractor is in negotiations with and any Participating Addendum roll out or implementation activities and issues. NASPO ValuePoint Cooperative Development Coordinator and Contractor will determine the format and content of the executive summary. The executive summary is due thirty (30) days after the conclusion of each calendar quarter.
- 8.4. REPORT OWNERSHIP. Timely submission of these reports is a material requirement of the Cooperative Purchasing Master Agreement. Enterprise Services and NASPO ValuePoint shall have a perpetual, irrevocable, non-exclusive, royalty free, transferable right to display, modify, copy, and otherwise use reports, data and information provided under this section.
- 8.5. CONFIDENTIALITY OF DETAILED SALES DATA AND PARTICIPATING ADDENDA. Participating Addenda, as well as Orders or transaction data relating to Orders under this Cooperative Purchasing Master Agreement that identify the entity/customer, Order dates, line item descriptions and volumes, and prices/rates, shall be Confidential Information. Contractor shall hold Confidential Information in confidence and shall not transfer or otherwise disclose Confidential Information to third parties or use Confidential Information for any purposes whatsoever other than what is necessary to the performance of Orders placed under this Cooperative Purchasing Master Agreement. Contractor shall advise each of its employees and agents of their obligations to keep Confidential Information confidential. This provision does not apply to disclosure to the Lead State, a Participating State, or any governmental entity exercising an audit, inspection, or examination pursuant to this Cooperative Purchasing Master Agreement. To the extent permitted by law, Contractor shall notify the Lead State of the identity of any entity seeking access to the Confidential Information described in this subsection.

9. NASPO VALUEPOINT COOPERATIVE PROGRAM MARKETING AND PERFORMANCE REVIEW

- 9.1. NASPO VALUEPOINT COOPERATIVE PROGRAM. Contractor agrees to work cooperatively with NASPO ValuePoint personnel. Contractor agrees to present plans to NASPO ValuePoint for the education of Contractor's contract administrator(s) and sales/marketing workforce regarding the Cooperative Purchasing Master Agreement, including the competitive nature of NASPO ValuePoint procurements, the Cooperative Purchasing Master Agreement and Participating Addendum process, and the manner in which qualifying entities can participate in the Cooperative Purchasing Master Agreement.
- 9.2. LOGOS. NASPO VALUEPOINT logos may not be used by Contractor in sales and marketing until a logo use agreement is executed with NASPO ValuePoint.
- 9.3. ANNUAL SUPPLIER BUSINESS REVIEW. Contractor agrees to participate in an annual supplier performance review at a location (virtual or in-person) selected by Enterprise Services and NASPO ValuePoint, which may include a discussion of marketing action plans, target strategies, marketing materials, as well as Contractor reporting and timeliness of payment of administration fees. The 2022 Annual Supplier Business Review requires in-person attendance. Any subsequent Annual Supplier Business Review meetings may be attended virtually or in-person.

10. ADMINISTRATIVE FEES.

- 10.1. CONTRACTOR shall pay to NASPO ValuePoint, or its assignee, a NASPO ValuePoint ADMINISTRATIVE Fee of one-quarter of one percent (0.25%) of the quarterly sales by participating state. The NASPO ValuePoint administrative fee is not negotiable. This fee may not be adjusted in any Participating Addendum. This fee is to be included as part of the pricing submitted with the bid.
- 10.2. Some states may require an additional fee be paid directly to the state only on purchases made by Purchasing Entities within that state. The fee level, payment method and schedule for such reports and payments will be incorporated into the Participating Addendum that is made a part of the Cooperative Purchasing Master Agreement. The Contractor may adjust the Cooperative Purchasing Master Agreement pricing accordingly for purchases made by Purchasing Entities within the jurisdiction of the state. All such agreements shall not affect the NASPO ValuePoint Administrative Fee percentage or the prices paid by the Purchasing Entities outside the jurisdiction of the state requesting the additional fee. The NASPO ValuePoint Administrative Fee set forth above shall be based on the gross amount of all sales (less any charges for taxes or shipping) at the adjusted prices (if any) in Participating Addenda.

11. RECORDS RETENTION & AUDITS.

- 11.1. RECORDS RETENTION. Contractor shall maintain books, records, documents, and other evidence pertaining to this Cooperative Purchasing Master Agreement and orders placed by Purchasing Entity under it to the extent and in such detail as shall adequately reflect performance and administration of payments and fees. Contractor shall retain such records for a period of six (6) years following expiration or termination of this Cooperative Purchasing Master Agreement or final payment for any order placed by a Purchasing Entity against this Cooperative Purchasing Master Agreement, whichever is later; *Provided*, however, that if any

litigation, claim, or audit is commenced prior to the expiration of this period, such period shall extend until all such litigation, claims, or audits have been resolved.

- 11.2. **AUDIT.** Upon reasonable advance written notice, Enterprise Services reserves the right to audit, or have a designated third party audit, applicable records to ensure that Contractor has properly invoiced Purchasing Entity and that Contractor has paid all applicable vendor management fees. Accordingly, Contractor shall permit Enterprise Services, any Purchasing Entity, and any other duly authorized agent of a governmental agency, to audit, inspect examine, copy and/or transcribe Contractor's books, documents, papers and records directly pertinent to this Cooperative Purchasing Master Agreement or orders placed by a Purchasing Entity under it for the purpose of making audits, examinations, excerpts, and transcriptions. This right shall survive for a period of six (6) years following expiration or termination of this Cooperative Purchasing Master Agreement or final payment for any order placed by a Purchasing Entity against this Cooperative Purchasing Master Agreement, whichever is later; *Provided*, however, that if any litigation, claim, or audit is commenced prior to the expiration of this period, such period shall extend until all such litigation, claims, or audits have been resolved.
- 11.3. **OVERPAYMENT OF PURCHASES OR UNDERPAYMENT OF FEES.** Without limiting any other remedy available to any Purchasing Entity, Contractor shall reimburse Purchasing Entity for any overpayments inconsistent with the terms of this Cooperative Purchasing Master Agreement or orders, at a rate of 100% of such overpayments, found as a result of the examination of the Contractor's records.

12. INSURANCE.

- 12.1. **REQUIRED INSURANCE.** During the Term of this Cooperative Purchasing Master Agreement, Contractor, at its expense, shall maintain in full force and effect the insurance coverages set forth in *Exhibit A – Insurance Requirements*. All costs for insurance, including any payments of deductible amounts, shall be considered incidental to and included in the prices for goods/services and no additional payment shall be made.
- 12.2. **WORKERS COMPENSATION.** Contractor shall comply with applicable workers compensation statutes and regulations (e.g., RCW Title 51, Industrial Insurance). If Contractor fails to provide industrial insurance coverage or fails to pay premiums or penalties on behalf of its employees as may be required by law, Enterprise Services may terminate this Cooperative Purchasing Master Agreement. This provision does not waive any of the Washington State Department of Labor and Industries (L&I) rights to collect from Contractor. In addition, Contractor waives its immunity under RCW Title 51 to the extent it is required to indemnify, defend, and hold harmless the State of Washington and its agencies, officials, agents, or employees.
- 12.3. **INSURANCE CERTIFICATE.** Prior to commencement of performance, Contractor shall provide to Enterprise Services a written endorsement to the Contractor's general liability insurance policy or other documentary evidence acceptable to Enterprise Services that (1) names the State of Washington and Enterprise Services as additional insureds, (2) provides for written notice of cancellation delivered in accordance with the policy provisions, and (3) provides that the Contractor's liability insurance policy shall be primary, with any liability insurance of any Participating State as secondary and noncontributory. Unless otherwise agreed in any Participating Addendum, other state Participating Entities' rights and Contractor's obligations

are the same as those specified in the first sentence of this subsection except the endorsement is provided to the applicable state.

13. PUBLIC INFORMATION. This Cooperative Purchasing Master Agreement, all related documents, and all records created as a result of the Cooperative Purchasing Master Agreement are subject to public disclosure as required by Washington's Public Records Act, RCW 42.56. In addition, Participating Addendums and related records shall be subject to public disclosure as required by applicable law pertaining to such Purchasing Entity. Consistent with the Public Records Act, to the extent that any such Contractor document or record – in whole or in part – includes information exempted or protected from disclosure by the Public Records Act, Contractor may mark such document or record – the exempted or protected portions only – with the specific basis for protection under the Public Records Act. In the event that Enterprise Services receives a public records disclosure request that pertains to such properly marked documents or records, Enterprise Services shall notify Contractor of such disclosure request and of the date that the records will be released to the requester unless Contractor, at Contractor's sole expense, timely obtains a court order enjoining such disclosure. In the event Contractor fails to file a motion for a court order enjoining such disclosure, Enterprise Services shall release the requested documents on the date specified. Contractor's failure properly to identify exempted or protected information or timely respond after notice of request for public disclosure has been given shall be deemed a waiver by Contractor of any claim that such materials are protected or exempt from disclosure.

14. DEFAULTS AND REMEDIES

14.1. **SUSPENSION & TERMINATION FOR DEFAULT.** Enterprise Services may suspend Contractor's operations under this Cooperative Purchasing Master Agreement immediately by written cure notice of any default. Contractor may be required to submit a written cure plan within five (5) business days of Suspension notification. Suspension shall continue until the default is remedied to Enterprise Services' reasonable satisfaction; *Provided*, however, that, if after thirty (30) days from such a suspension notice, Contractor remains in default, Enterprise Services may terminate Contractor's right under this Cooperative Purchasing Master Agreement. All of Contractor's obligations to Enterprise Services and Purchasing Entity survive termination of Contractor's rights under this Cooperative Purchasing Master Agreement, until such obligations have been fulfilled.

14.2. **DEFAULT.** Each of the following events shall constitute default of this Cooperative Purchasing Master Agreement by Contractor:

- (a) Contractor fails to perform or comply with any of the terms or conditions of this Cooperative Purchasing Master Agreement;
- (b) Contractor breaches any representation or warranty provided herein; or
- (c) Contractor enters into proceedings relating to bankruptcy, whether voluntary or involuntary.

14.3. **REMEDIES for DEFAULT.**

- (a) Enterprise Services' rights to suspend and terminate Contractor's rights under this Cooperative Purchasing Master Agreement are in addition to all other available remedies.
- (b) In the event of termination for default, Enterprise Services may exercise any remedy provided by law including, without limitation, the right to procure for all Purchasing

Entity replacement goods and/or services. In such event, Contractor shall be liable to Enterprise Services for damages as authorized by law including, but not limited to, any price difference between the Cooperative Purchasing Master Agreement price and the replacement or cover price for identical equipment or services, as well as any administrative and/or transaction costs directly related to such replacement procurement – e.g., the cost of the competitive procurement. Enterprise Services or Purchasing Entity will mitigate damages and provide Contractor with detailed invoices substantiating the charges.

- (c) Unless otherwise specified in the Participating Addendum, in the event of a default under a Participating Addendum, a Participating Entity shall provide a written notice of default as described in this section and have all of the rights and remedies under this paragraph regarding its participation in the Cooperative Purchasing Master Agreement, in addition to those set forth in its Participating Addendum. Unless otherwise specified in a Purchase Order, either Party shall provide written notice of default as described in this section and have all of the rights and remedies under this paragraph and any applicable Participating Addendum with respect to an Order. Nothing in this Cooperative Purchasing Master Agreement shall be construed to limit the rights and remedies available to either Party under the applicable commercial code.

- 14.4. LIMITATION ON DAMAGES. Notwithstanding any provision to the contrary, the parties agree that in no event shall any party or Participating Entity be liable to the other for exemplary or punitive damages. Contractor's total liability shall not exceed \$2,000,000 per occurrence or \$8,000,000 aggregate; provided, however, that nothing contained in this Section will in any way exclude or limit Contractor's liability for all damages arising out of negligence or personal injury or death.

ALTHOUGH THE PARTIES ACKNOWLEDGE THE POSSIBILITY OF SUCH LOSSES OR DAMAGES, THEY AGREE THAT CONTRACTOR WILL NOT BE LIABLE FOR ANY COMMERCIAL LOSS, INCONVENIENCE, LOSS OF USE, LOSS TIME, DATA, GOODWILL, REVENUES, PROFITS OR SAVINGS; OR OTHER SPECIAL, INCIDENTAL, INDIRECT, OR CONSEQUENTIAL DAMAGES IN ANY WAY RELATED TO OR ARISING FROM THIS AGREEMENT, THE SALE OR USE OF THE EQUIPMENT OR SOFTWARE, OR THE PERFORMANCE OF SERVICES BY CONTRACTOR PURSUANT TO THIS AGREEMENT.

This limitation of liability provision survives the expiration or termination of this Cooperative Purchasing Master Agreement and applies notwithstanding any contrary provision. No action for contract breach or otherwise relating to the transactions contemplated by this Cooperative Purchasing Master Agreement may be brought later than the limitations period specified by statute.

- 14.5. GOVERNMENTAL TERMINATION. Termination for Withdrawal of Authority. Enterprise Services may suspend or terminate this Cooperative Purchasing Cooperative Purchasing Master Agreement if, during the term hereof, Enterprise Services' procurement authority is withdrawn, reduced, or limited such that Enterprise Services, in its judgment, would lack authority to enter into this Cooperative Purchasing Master Agreement; *Provided*, however, that such suspension or termination for withdrawal of authority shall only be effective upon twenty (20) days prior written notice; and *Provided further*, that such suspension or

termination for withdrawal of authority shall not relieve any Participating Entity or Purchasing Entity from payment for goods and/or services already ordered as of the effective date of such notice. Except as stated in this provision, in the event of such suspension or termination for withdrawal of authority, neither Enterprise Services nor any Participating Entity or Purchasing Entity shall have any obligation or liability to Contractor. Contractor will be entitled to seek a change order to the extent Contractor provides documentary evidence that Contractor has incurred additional costs as a result of the suspension including costs to demobilize and remobilize the project.

- (a) Termination for Convenience. Enterprise Services, for convenience, may terminate this Cooperative Purchasing Master Agreement; *Provided*, however, that such termination for convenience must, in Enterprise Services' judgment, be in the best interest of the State of Washington; and *Provided further*, that such termination for convenience shall only be effective upon sixty (60) days prior written notice; and *Provided further*, that such termination for convenience shall not relieve any Participating Entity or Purchasing Entity from payment for goods and/or services already ordered as of the effective date of such notice. Except as stated in this provision, in the event of such termination for convenience, neither Enterprise Services nor any Participating Entity or Purchasing Entity shall have any obligation or liability to Contractor.

15. CLAIMS.

- 15.1. ASSUMPTION OF RISKS; CLAIMS BETWEEN THE PARTIES. Contractor assumes sole responsibility and all risks of personal injury or property damage to itself and its employees and agents to the extent caused by its operations under this Cooperative Purchasing Master Agreement. Enterprise Services has made no representations regarding any factor affecting Contractor's risks. Contractor shall pay for all damage to any Purchasing Entity's property resulting directly or indirectly from its acts or omissions under this Cooperative Purchasing Master Agreement, to the extent attributable to negligence by Contractor or its agents.
- 15.2. THIRD-PARTY CLAIMS; INDEMNITY. To the fullest extent permitted by law, Contractor shall defend, indemnify, and hold harmless Enterprise Services, any Purchasing Entity, and NASPO Cooperative Purchasing Organization LLC (doing business as NASPO ValuePoint) (NASPO) and their respective employees and agents from and against all claims, demands, judgments, assessments, damages, penalties, fines, costs, liabilities or losses including, without limitation, sums paid in settlement of claims, attorneys' fees, consultant fees, and expert fees (collectively "claims") arising from any act or omission of Contractor or its successors, agents, and subcontractors under this Cooperative Purchasing Master Agreement, except to the extent such claims are caused by Enterprise Services, any Purchasing Entity, or NASPO's negligence. Contractor shall take all steps needed to keep Purchasing Entity's property free of liens arising from Contractor's activities, and promptly obtain or bond the release of any such liens that may be filed.
- 15.3. INDEMNIFICATION – Intellectual Property. The indemnified Party shall notify the Contractor within a reasonable time after receiving notice of an Intellectual Property Claim. Even if the Indemnified Party fails to provide reasonable notice, the Contractor shall not be relieved from its obligations unless the Contractor can demonstrate that it was prejudiced in defending the Intellectual Property Claim resulting in increased expenses or loss to the Contractor. If the Contractor promptly and reasonably investigates and defends any Intellectual Property Claim,

it shall have control over the defense and settlement of it. However, the Indemnified Party must consent in writing for any money damages or obligations for which it may be responsible. The Indemnified Party shall furnish, at the Contractor's reasonable request and expense, information and assistance necessary for such defense. If the Contractor fails to vigorously pursue the defense or settlement of the Intellectual Property Claim, the Indemnified Party may assume the defense or settlement of it and the Contractor shall be liable for all costs and expenses, including reasonable attorneys' fees and related costs, incurred by the Indemnified Party in the pursuit of the Intellectual Property Claim. Unless otherwise agreed in writing, this section is not subject to any limitations of liability in this Cooperative Purchasing Master Agreement or in any other document executed in conjunction with this Cooperative Purchasing Master Agreement.

- (1) The Contractor's obligations under this section shall not extend to any combination of the Product with any other product, system or method, unless the Product, system or method is:
 - (a) provided by the Contractor or the Contractor's subsidiaries or affiliates;
 - (b) specified by the Contractor to work with the Product; or
 - (c) reasonably required, in order to use the Product in its intended manner, and the infringement could not have been avoided by substituting another reasonably available product, system or method capable of performing the same function; or
 - (d) It would be reasonably expected to use the Product in combination with such product, system or method.

16. DISPUTE RESOLUTION. The parties shall cooperate to resolve any dispute pertaining to this Cooperative Purchasing Master Agreement efficiently, as timely as practicable, and at the lowest possible level with authority to resolve such dispute. If, however, a dispute persists and cannot be resolved, it may be escalated within each organization. In such situation, upon notice by either party, each party, within five (5) business days shall reduce its description of the dispute to writing and deliver it to the other party. The receiving party then shall have three (3) business days to review and respond in writing. In the event that the parties cannot then agree on a resolution of the dispute, the parties shall schedule a conference between the respective senior managers of each organization to attempt to resolve the dispute. In the event the parties cannot agree, either party may resort to court to resolve the dispute.

17. GENERAL PROVISIONS.

- 17.1. **TIME IS OF THE ESSENCE.** Time is of the essence for each and every provision of this Cooperative Purchasing Master Agreement.
- 17.2. **COMPLIANCE WITH LAW.** Contractor shall comply with all applicable law.
- 17.3. **INTEGRATED AGREEMENT.** This Cooperative Purchasing Master Agreement constitutes the entire agreement and understanding of the parties with respect to the subject matter and supersedes all prior negotiations, representations, and understandings between them. There are no representations or understandings of any kind not set forth herein.

- 17.4. AMENDMENT OR MODIFICATION. Except as set forth herein, this Cooperative Purchasing Master Agreement may not be amended or modified except in writing and signed by a duly authorized representative of each party.
- 17.5. AUTHORITY. Each party to this Cooperative Purchasing Master Agreement, and each individual signing on behalf of each party, hereby represents and warrants to the other that it has full power and authority to enter into this Cooperative Purchasing Master Agreement and that its execution, delivery, and performance of this Cooperative Purchasing Master Agreement has been fully authorized and approved, and that no further approvals or consents are required to bind such party.
- 17.6. NO AGENCY. The parties agree that no agency, partnership, or joint venture of any kind shall be or is intended to be created by or under this Cooperative Purchasing Master Agreement. Neither party is an agent of the other party nor authorized to obligate it.
- 17.7. ASSIGNMENT. Contractor may not assign its rights under this Cooperative Purchasing Master Agreement without Enterprise Services' prior written consent and Enterprise Services may consider any attempted assignment without such consent to be void; *Provided*, however, that, if Contractor (a) provides written notice to Enterprise Services within thirty (30) days of such event and (b) timely executes Enterprise Services' Assignment, Assumption and Consent Agreement, Contractor may assign its rights under this Cooperative Purchasing Master Agreement in full to any parent, subsidiary, or affiliate of Contractor that controls or is controlled by or under common control with Contractor, is merged or consolidated with Contractor, or purchases a majority or controlling interest in the ownership or assets of Contractor. Unless otherwise agreed, Contractor guarantees prompt performance of all obligations under this Cooperative Purchasing Master Agreement notwithstanding any prior assignment of its rights.
- 17.8. BINDING EFFECT; SUCCESSORS & ASSIGNS. This Cooperative Purchasing Master Agreement shall be binding upon and shall inure to the benefit of the parties hereto and their respective successors and assigns.
- 17.9. ASSIGNMENT OF ANTITRUST RIGHTS REGARDING PURCHASED GOODS/SERVICES. Contractor irrevocably assigns to Enterprise Services, on behalf of the State of Washington, any claim for relief or cause of action which Contractor now has or which may accrue to the Contractor in the future by reason of any violation of state or federal antitrust laws in connection with any goods and/or services provided in Washington for the purpose of carrying out the Contractor's obligations under this Cooperative Purchasing Master Agreement, including, at Enterprise Services' option, the right to control any such litigation on such claim for relief or cause of action.
- 17.10. FEDERAL FUNDS. To the extent that any Purchasing Entity uses federal funds to purchase goods and/or services pursuant to this Cooperative Purchasing Master Agreement, such Purchasing Entity shall specify, with its Purchase Order, any applicable requirement or certification that must be satisfied by Contractor at the time the order is placed or upon delivery of such goods and/or services to Purchasing Entity.
- 17.11. SEVERABILITY. If any provision of this Cooperative Purchasing Master Agreement is held to be invalid or unenforceable, such provision shall not affect or invalidate the remainder of this Cooperative Purchasing Master Agreement, and to this end the provisions of this Cooperative Purchasing Master Agreement are declared to be severable. If such invalidity becomes known or apparent to the parties, the parties agree to negotiate promptly in good faith in an attempt

to amend such provision as nearly as possible to be consistent with the intent of this Cooperative Purchasing Master Agreement.

- 17.12. **WAIVER.** Failure of either party to insist upon the strict performance of any of the terms and conditions hereof, or failure to exercise any rights or remedies provided herein or by law, or to notify the other party in the event of breach, shall not release the other party of any of its obligations under this Cooperative Purchasing Master Agreement, nor shall any purported oral modification or rescission of this Cooperative Purchasing Master Agreement by either party operate as a waiver of any of the terms hereof. No waiver by either party of any breach, default, or violation of any term, warranty, representation, contract, covenant, right, condition, or provision hereof shall constitute waiver of any subsequent breach, default, or violation of the same or other term, warranty, representation, contract, covenant, right, condition, or provision.
- 17.13. **SURVIVAL.** All representations, warranties, covenants, agreements, and indemnities set forth in or otherwise made pursuant to this Cooperative Purchasing Master Agreement shall survive and remain in effect following the expiration or termination of this Cooperative Purchasing Master Agreement, *Provided*, however, that nothing herein is intended to extend the survival beyond any applicable statute of limitations periods.
- 17.14. **GOVERNING LAW.** The validity, construction, performance, and enforcement of this Cooperative Purchasing Master Agreement shall be governed by and construed in accordance with the laws of the State of Washington, without regard to its choice of law rules. The validity, construction, and effect of any Participating Addendum pertaining to the Cooperative Purchasing Master Agreement or Order placed pursuant to such Participating Addendum shall be governed by and construed in accordance with the laws of the Participating Entity's or Purchasing Entity's State.
- 17.15. **JURISDICTION & VENUE.** In the event that any action is brought to enforce any provision of this Cooperative Purchasing Master Agreement, the parties agree to exclusive jurisdiction in Thurston County Superior Court for the State of Washington and agree that in any such action venue shall lie exclusively at Olympia, Washington; *Provided*, however, that venue for any claim, dispute, or action concerning any Order placed against the Cooperative Purchasing Master Agreement or the effect of a Participating Addendum shall be in the Purchasing Entity's State.
- 17.16. **SOVEREIGN IMMUNITY.** In no event shall this Cooperative Purchasing Master Agreement, any Participating Addendum or any Purchase Order issued thereunder, or any act of the Lead State, a Participating Entity, or a Purchasing Entity be a waiver of any form of defense or immunity, whether sovereign immunity, governmental immunity, immunity based on the Eleventh Amendment to the Constitution of the United States or otherwise, from any claim or from the jurisdiction of any court. This section applies to a claim brought against the Participating Entities who are states only to the extent Congress has appropriately abrogated the state's sovereign immunity and is not consent by the state to be sued in federal court.
- 17.17. **ATTORNEYS' FEES.** Should any legal action or proceeding be commenced by either party in order to enforce this Cooperative Purchasing Master Agreement or any provision hereof, or in connection with any alleged dispute, breach, default, or misrepresentation in connection with any provision herein contained, the prevailing party shall be entitled to recover reasonable attorneys' fees and costs incurred in connection with such action or proceeding, including costs of pursuing or defending any legal action, including, without limitation, any appeal,

discovery, or negotiation and preparation of settlement arrangements, in addition to such other relief as may be granted.

- 17.18. **FAIR CONSTRUCTION & INTERPRETATION.** The provisions of this Cooperative Purchasing Master Agreement shall be construed as a whole according to their common meaning and not strictly for or against any party and consistent with the provisions contained herein in order to achieve the objectives and purposes of this Cooperative Purchasing Master Agreement. Each party hereto and its counsel has reviewed and revised this Cooperative Purchasing Master Agreement and agrees that the normal rules of construction to the effect that any ambiguities are to be resolved against the drafting party shall not be construed in the interpretation of this Cooperative Purchasing Master Agreement. Each term and provision of this Cooperative Purchasing Master Agreement to be performed by either party shall be construed to be both a covenant and a condition.
- 17.19. **FURTHER ASSURANCES.** In addition to the actions specifically mentioned in this Cooperative Purchasing Master Agreement, the parties shall each do whatever may reasonably be necessary to accomplish the transactions contemplated in this Cooperative Purchasing Master Agreement including, without limitation, executing any additional documents reasonably necessary to effectuate the provisions and purposes of this Cooperative Purchasing Master Agreement.
- 17.20. **EXHIBITS.** All exhibits referred to herein are deemed to be incorporated in this Cooperative Purchasing Master Agreement in their entirety.
- 17.21. **CAPTIONS & HEADINGS.** The captions and headings in this Cooperative Purchasing Master Agreement are for convenience only and are not intended to, and shall not be construed to, limit, enlarge, or affect the scope or intent of this Cooperative Purchasing Master Agreement nor the meaning of any provisions hereof.
- 17.22. **ELECTRONIC SIGNATURES.** An electronic signature of this Cooperative Purchasing Master Agreement or any other ancillary agreement shall be deemed to have the same legal effect as delivery of an original executed copy of this Cooperative Purchasing Master Agreement or such other ancillary agreement for all purposes.

- 17.23. COUNTERPARTS. This Cooperative Purchasing Master Agreement may be executed in any number of counterparts, each of which shall be deemed an original and all of which counterparts together shall constitute the same instrument which may be sufficiently evidenced by one counterpart. Execution of this Cooperative Purchasing Master Agreement at different times and places by the parties shall not affect the validity thereof so long as all the parties hereto execute a counterpart of this Cooperative Purchasing Master Agreement.

EXECUTED as of the date and year first above written.

STATE OF WASHINGTON
DEPARTMENT OF ENTERPRISE SERVICES

By: *Elena McGrew*
 Elena McGrew
 Its: Acting Statewide Enterprise Procurement
 Manager

NOKIA OF AMERICA CORPORATION
A DELAWARE CORPORATION

By: *Eric W. Negley*
 Eric W. Negley
 Its: Commercial Contract Manager
 By: *Robert M Fennelly*
 Bob Fennelly
 Its: Enterprise Head of Sales, East

Exhibit A**INSURANCE REQUIREMENTS**

1. **INSURANCE OBLIGATION.** During the Term of this Cooperative Purchasing Master Agreement, Contractor shall possess and maintain in full force and effect, at Contractor's sole expense, the following insurance coverages:
 - a. **COMMERCIAL GENERAL LIABILITY INSURANCE.** Commercial general liability insurance (and, if necessary, commercial umbrella liability insurance) covering bodily injury, property damage, products/completed operations, personal injury, and advertising injury liability on an 'occurrence form' that shall be no less comprehensive and no more restrictive than the coverage provided by Insurance Services Office (ISO) under the most recent version of form CG 00 01 in the amount of not less than \$2,000,000 per occurrence and \$4,000,000 general aggregate. This coverage shall include blanket contractual liability coverage. This coverage shall include a cross-liability clause or separation of insured condition.
 - b. **WORKERS' COMPENSATION INSURANCE.** Contractor shall comply with applicable Workers' Compensation or Industrial Accident insurance providing benefits as required by law.
 - c. **EMPLOYERS' LIABILITY (STOP GAP) INSURANCE.** Employers' liability insurance (and, if necessary, commercial umbrella liability insurance) with limits not less than \$1,000,000 each accident for bodily injury by accident, \$1,000,000 each employee for bodily injury by disease, and \$1,000,000 bodily injury by disease policy limit.

The insurance coverage limits set forth herein are the minimum. Contractor's insurance coverage shall be no less than the minimum amounts specified. Coverage in the amounts of these minimum limits, however, shall not be construed to relieve Contractor from liability in excess of such limits. Contractor waives all rights against the State of Washington for the recovery of damages to the extent such damages are covered by any insurance required herein.

2. **INSURANCE CARRIER RATING.** Coverages provided by the Contractor must be underwritten by an insurance company deemed acceptable to the State of Washington's Office of Risk Management. Insurance coverage shall be provided by companies authorized to do business within the State of Washington and rated A- Class VII or better in the most recently published edition of Best's Insurance Rating. Enterprise Services reserves the right to reject all or any insurance carrier(s) with an unacceptable financial rating.
3. **ADDITIONAL INSURED.** Commercial General Liability, Commercial Automobile Liability, and Pollution Liability Insurance shall include the State of Washington and all authorized Purchasing Entity (and their agents, officers, and employees) as Additional Insureds evidenced by copy of the Additional Insured Endorsement attached to the Certificate of Insurance on such insurance policies.
4. **CERTIFICATE OF INSURANCE.** Prior to execution of the Cooperative Purchasing Master Agreement, Contractor shall furnish to Enterprise Services, as evidence of the insurance coverage required by this Cooperative Purchasing Master Agreement, a certificate of insurance satisfactory to Enterprise Services that insurance, in the above-stated kinds and minimum amounts, has been secured. In addition, no less than ten (10) days prior to coverage expiration, Contractor shall

furnish to Enterprise Services an updated or renewed certificate of insurance, satisfactory to Enterprise Services, that insurance, in the above-stated kinds and minimum amounts, has been secured. Failure to maintain or provide proof of insurance, as required, will result in contract cancellation. **All policies and certificates of insurance shall include the Cooperative Purchasing Master Agreement number stated on the cover of this Cooperative Purchasing Master Agreement.** All certificates of Insurance and any related insurance documents shall be delivered to Enterprise Services by U.S. mail, postage prepaid, or sent via email, and shall be sent to the address or email address set forth below or to such other address or email address as Enterprise Services may specify in writing:

US Mail: Contracts & Procurement – Cooperative Purchasing Master Agreement Insurance Certificate
Cooperative Purchasing Master Agreement No. 00318 – Public Safety Communications Products, Services and Solutions
 Attn: Team Cypress
 Washington Dept. of Enterprise Services
 PO Box 41411
 Olympia, WA 98504-1411

Email: DESContractsTeamCypress@des.wa.gov

Note: For Email notice, the Email Subject line must state:
Cooperative Purchasing Master Agreement Insurance Certificate – Cooperative Purchasing Master Agreement No. 00318 – Public Safety Communications Products, Services and Solutions

5. **PRIMARY COVERAGE.** Contractor's insurance shall apply as primary and shall not seek contribution from any insurance or self-insurance maintained by, or provided to, the additional insureds listed above including, at a minimum, the State of Washington and/or any Purchasing Entity. All insurance or self-insurance of the State of Washington and/or Purchasing Entity shall be excess of any insurance provided by Contractor or subcontractors.
6. **SUBCONTRACTORS.** Contractor shall include all subcontractors as insureds under all required insurance policies. Alternatively, prior to utilizing any subcontractor, Contractor shall cause any such subcontractor to provide insurance that complies with all applicable requirements of the insurance set forth herein and shall furnish separate Certificates of Insurance and endorsements for each subcontractor. Each subcontractor must comply fully with all insurance requirements stated herein. Failure of any subcontractor to comply with insurance requirements does not limit Contractor's liability or responsibility.
7. **WAIVER OF SUBROGATION.** Contractor waives all rights of subrogation against the State of Washington and any Purchasing Entity for the recovery of damages to the extent such damages are or would be covered by the insurance specified herein.
8. **NOTICE OF CHANGE OR CANCELLATION.** There shall be no cancellation without at least thirty (30) days prior written Legal Notice by Contractor to Enterprise Services. Failure to provide such notice, as required, shall constitute default by Contractor. Any such written notice shall include the Cooperative Purchasing Master Agreement number stated on the cover of this Cooperative Purchasing Master Agreement.

9. **EXTENDED REPORTING PERIOD.** If any required insurance coverage is on a claims-made basis (rather than occurrence), Contractor shall maintain such coverage for a period of no less than three (3) years following expiration or termination of the Cooperative Purchasing Master Agreement.

NASPO 00318 NVP-MA-Nokia-Clean 20211118 N2-Signed

Final Audit Report

2021-11-21

Created:	2021-11-19
By:	Neva Peckham (neva.peckham@des.wa.gov)
Status:	Signed
Transaction ID:	CBJCHBCAABAA9_cyMI3z7EkFbCwb7XSeOU7ignCwFFtm

"NASPO 00318 NVP-MA-Nokia-Clean 20211118 N2-Signed" History

-  Document created by Neva Peckham (neva.peckham@des.wa.gov)
2021-11-19 - 4:28:17 PM GMT- IP address: 198.238.242.30
-  Document emailed to Elena McGrew (elena.mcgrew@des.wa.gov) for signature
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-  Document e-signed by Elena McGrew (elena.mcgrew@des.wa.gov)
Signature Date: 2021-11-21 - 10:48:09 PM GMT - Time Source: server- IP address: 198.238.242.30
-  Agreement completed.
2021-11-21 - 10:48:09 PM GMT



Nokia US Microwave Products and Services Price Catalog - July 2023



Bringing together the world's intelligence

**Customer: The State of Washington Department of Enterprise
Program**

Public Safety Communication Support Equipment 00318

Notes:

- 1) Prices valid until contract expiration.
- 2) Prices shown for "drop ship" only. Does not include Taxes or any other configurations.
- 3) All Products shipped FOB purchaser's specified destination
- 4) Shipping costs must be mutually agreed between purchaser and Nokia prior to shipment.
- 5) The following items are optional purchases necessary to the functionality of a microwave system (as defined by the purchasing agency), and not an accessory that is optional to the product's intended purpose.
- 6) DISCLAIMER: The documents on the NASPO ValuePoint website are for informational/ convenience purposes only. Official documents are maintained by the lead state (or participating entity in the case of participating addenda). In the event of any conflict between the documents on this site and those maintained by the lead state or participating entity, the official documents maintained by the lead state or participating entity govern.



Services on behalf of NASPO ValuePoint Cooperative

Rev1



Purchasing



MICROWAVE EQUIPMENT

Wavence Microwave Solution, an evolution of

Part No	Description
RACKS - Table K	
694-9000-006	Standard Rack, 7' tall, 19" wide
1AD014120046	Seismic Rack, 7.0'
690-1125-003	Rack Extension Kit - 19" rack
3EM13317AB	Power Distribution Panel with Fuse Alarm Card included
3EM13317AC	Power Distribution Panel with Relay Alarm Card included
690-4373-001	Kit AC Outlet
695-1001-006	Aluminum Rack Screw Kit
695-1001-007	Seismic Rack Screw Kit
695-1001-005	Seismic Rack Grounding Kit
3EM19148AD	Laptop Shelf Assy
RACKS - Table K1	
695-0905-003	Standard Rack, 7' tall, 23" wide
694-8873-005	Adapters for 23", 2 RU (PDU two required)
CABINETS	
3MU00079BA	9500 MPR FLX16WS 1 MSS
Cabinets - Wall and H-Frame Mounting	
3EM24726AA	Kit, Wall Mount, ATT FTTCS
3MV00159AB	Kit, Wall Mount, FLX16WS, Battery Base
Cabinets - Pole Mounting Kits	
3MV00159AD	Kit, Pole Mnt, FTTCS
3MV00159AE	Kit, Pole Mnt, FTTCS, 90Deg
3MV00159AF	Kit, Banded, Pole Mnt, FTTCS
Cabinets - Pad Mount Kits	
3MV00159AH	Kit, ASSY, Plinth, 4" High, FTTCS
3MV00159AJ	Kit, ASSY, Plinth, 14" High, FTTCS
3MV00159AK	ASSY, Plate, Anchor, FLX, FTTCS
Cabinets - MPT-HL Flex 25	
3MU00119CC	9500 MPR FLX25 MPT-HL Cabinet with MSS
Cabinets - MPT-HL Flex 25 Mounting Option	

3MU00127AA	Flex25 14" Plinth Base
3MU00128AA	Flex25 Pole Mount Kit
	MSS SHELF OPTIONS - Table A
3EM22715AH	9500 MPR Shelf Kit w/FanEvo - HSv2
3EM24463AB	9500 MPR Shelf Kit (MSS-4 10G)
3DB18163AB	MSS Slot Cover - Blank Plate 1/2H
3CC52216AA	Fan Alarm Cable 7.5m
3CC52216AB	Fan Alarm Cable 15m
	MSS SHELF OPTION SPARES - Table A
3DB18485EA	Wavence MSS-8 Shelf HSv3
3DB18219DA	MSS-4 10G Shelf
3EM23911BB	MSS Fan Alarm Evo
3DB19506AA	MSS-4 10G FAN
3MU00153AA	MSS Power Supply Cable Kit
3EM24095AC	MPT-HL & HLC Power Cable
3EM24040AA	MPT-HL Air Filter (Spare)
3DB76288AA	MPT-HLC Air Filter Kit (Spare)
3DB19325AA	MSS-8 Side Filter
3DB19580AA	MSS-8 Side Filter - Mid Mount
3DB19325AB	MSS-8 Side Filter Screen
3DB19580AB	MSS-8 Side Filter Sreen - Mid Mount
	MSS1 - Table A1
3DB19015CA	MSS1 Spare ONLY
3MU00109AC	MSS1 Kit
1AC007800068	cable to power MSS-1c (2 conductors, 1mm sq) GLP is per foot
	MSS1 - Table A1
3DB19445AA	MSS-E
3DB19575AA	MSS-HE
3DB19633AA	MSS-XE
3MU00187AA	MSS-E Rack Kit
3MU00187BA	MSS-HE/XE Rack Kit
	MSS-O - Table A1
3DB19159AA	MSS-O AC Kit, include Pole/Wall Mounting
3DB19281AA	MSS-O DC Kit, include Pole/Wall Mounting
3DB19158AA	Pole/wall IM for MSS-O, Spare ONLY
1AB150990012	RFE protection connector MSS-O
1AB150990013	fiber extension tube for MSS-O
1AC052600002	Outdoor AC Power Cable (meter)
1AC057660001	Outdoor DC Power Cable (meter)
3CC50271AA	Triple Grounding Kit
3CC52210AA	MM Fiber, LC/LC for MSS-O, 5m
3CC52210AB	MM Fiber, LC/LC for MSS-O, 10m
3CC52210AC	MM Fiber, LC/LC for MSS-O, 25m
	MSS SHELF OPTIONS - Table A
3DB19318BA	CorEvo-1G
3DB18788BA	CorEvo-10G
3DB18126AE	32xT1 TDM Module - TH/Clei
3DB18735AA	2xOC3 Module

3DB19017AB	Ethernet Access Module Version2 with PoE
3DB78017AA	Sync In/Out SFP for MSS-1/CorEvo-10G
3DB78022AA	1588 ToD SFP
3DB19417AA	EAC 1G
3DB19343AA	EAC 10G
1AB380750004	DS3 SFP
3MU00192AA	DS3 SFP & Cable Adptr Kit
3DB19774AA	CAHD
3DB19889AA	OC3 Channelized SFP
3DB19890AA	DS3 Channelized SFP
3DB19894AA	DS3 Channelized SFP & Cable Adptr Kit
	Conformal Coating
3DB18788KA	CorEvo-10G Conformal Coating
3DB18126KA	32xT1 TDM Module Conformal Coating
3DB19017KA	Ethernet Access Module Version2 with PoE Conformal Coating
3DB19417KA	EAC 1G Conformal Coating
3DB19343KA	EAC 10G Conformal Coating
3EM23911BK	Fan Alarm Evo Conformal Coating
3EM22715KA	MSS-8 Shelf Kit w/FanEvo - HSv3 CC
3DB18485KA	MSS-8 10G shelf Conformal Coating
3DB19774KA	CAHD Conformal Coating
	Optical Coupler for CoreE Protection
3EM09257AA	Fiber Management Panel
1AB432200001	Splitter/Combiner unit for 2x4 Management Panel (LC)
1AB123320023	Splitter/Combiner unit for 2x4 Management Panel (SC)
	DC-DC Power Convertor MSS Version
3DB18862AA	+24 /-48 Vdc Two converters with chassis (Requires 1 MSS Slot)
	AC-DC Power Convertor MSS Version
3HE05838AA	250W 120/240V AC POWER CONVERTER
3CC52223AA	AC POWER CONVERTER PIGTAIL -D-SUB
	SOFTWARE R19 19A - Table B
3DB17020DDAF	Wavence 19A ICS05 uSD Card for CoreEvo-10G
3DB17010HDAF	Wavence 19A ICS05 SW Electronic Delivery Kit
3DB17020EDAA	Wavence 19A Flash Card MSS1/MSSO
3DB17020FDAA	Wavence 19A Flash Card Core-E
	SOFTWARE R20 - Table B
3DB17020DEAC	Wavence 20 uSD ICS03 Card for CoreEvo-10G
3DB17010HEAC	Wavence 20 SW Electronic Delivery Kit
3DB17010GEAB	Wavence 20 ICS02 SW CD Kit
3DB17010HEAB	Wavence 20 ICS02 SW Electronic Delivery Kit
3DB17020EEAA	Wavence 20 ICS03 Flash Card MSS1/MSSO
	SOFTWARE W20A
3DB17021JFAA	Wavence 20A MSS-E uSD
3DB17021KFAA	Wavence 20A MSS-HE uSD
3DB17010GFAA	Wavence 20A SW CD Kit
	SOFTWARE W20A MP1

3DB17020DFAB	Wavence 20A MP1 uSD Card for CoreEvo-10G
3DB17010HFAB	Wavence 20A MP1 SW Electronic Delivery Kit
	SOFTWARE W20A SU1
3DB17021TFBA	Wavence 20A SU1 Secure uSD for CorEvo-10G
	SOFTWARE W20A MP2
3DB17020DFAC	Wavence 20A MP2 uSD Card for CoreEvo-10G
3DB17010HFAC	Wavence 20A MP2 SW Electronic Delivery Kit
	SOFTWARE W20A MP3
3DB17020DFAD	Wavence 20A MP3 uSD Card for CoreEvo-10G
3DB17010HFAD	Wavence 20A MP3 SW Electronic Delivery Kit
	SOFTWARE W21 - Table B
3DB17021JGAA	Wavence 21 MSS-E uSD
3DB17021KGAA	Wavence 21 MSS-HE uSD
3DB17021DGAA	Wavence 21 uSD Card for CoreEvo-10G
3DB17010HGAA	Wavence 21 SW Electronic Delivery Kit
	SOFTWARE W21A - Table B
3DB17021DHAA	Wavence 21A uSD Card for CoreEvo-10G
3DB17010HHAA	Wavence 21A SW Electronic Delivery Kit
	SOFTWARE W21A SP1 - Table B
3DB17021JJAA	Wavence 21A SP1 MSS-E uSD
3DB17021KJAA	Wavence 21A SP1 MSS-HE uSD
3DB17021DJAA	Wavence 21A SP1 uSD Card for CoreEvo-10G
3DB17010HJAA	Wavence 21A SP1 SW Electronic Delivery Kit
3DB17010HJAB	Wavence 21A MP3 SW Electronic Delivery Kit
	SOFTWARE W22
3DB17021JKAA	Wavence 22 MSS-E uSD
3DB17021KKAA	Wavence 22 MSS-HE uSD
3DB17021DKAA	Wavence 22 uSD Card for CoreEvo-10G
3DB17010HKAA	Wavence 22 SW Electronic Delivery Kit
	SOFTWARE W22A
3DB17021JLAA	Wavence 22A MSS-E uSD
3DB17021KLAA	Wavence 22A MSS-HE uSD
3DB17021MLAA	Wavence 22A MSS-XE uSD
3DB17021DLAA	Wavence 22A uSD Card for CoreEvo-10G
3DB17010HLAA	Wavence 22A SW Electronic Delivery Kit
	MISC RTU
3EM24226AA	Microwave Factory Test Certificate
3EM24226AF	Factory Configuration Certificate - Customer Witness Test
3EM23067AAAA	9500 MPR CT License (Per PC Installed) Optional for CorEvo
3EM24592AAAB	9500 MPR Software Subscription (Per Node)
3EM24745AAAA	9500 MPRe OS License For MPT Only
3MU00147AAAA	MPT Spectrum Analyzer Tool RTU
3DB19531DBAA	Wavence Spectrum Analyzer Tool
	Secure Mode

3DB19414AA	MSS-8 Security Kit
3DB76333AA	MPT-HLC Security Kit
3DB76376AA	MSS Security Kit
3DB19411AA	Tamper Resistant Label Kit
3DB19786AA	FIPS Maintenance Kit
3EM24226AHAA	FIPS Configuration Certification - Must Have 20A SU1 & AES 256 RTU
	Factory RTU's - per ODU or RF Transceiver - Table B1
3EM23068AAAA	RTU 40Mbps TRX Capacity
3EM23068ABAA	RTU 80Mbps TRX Capacity
3EM23068ACAA	RTU 120Mbps TRX Capacity
3EM23068ADAA	RTU 160Mbps TRX Capacity
3EM23068AFAA	RTU 220Mbps TRX Capacity
3EM23068AEAA	RTU 320Mbps TRX Capacity
3EM23068AGAA	RTU 450Mbps TRX Capacity
3EM23068AHAA	RTU 500Mbps TRX Capacity
3EM23261AAAA	9500 MPR 5.8GHz Unlicensed RTU (MPT-HL only)
3EM23073AAAA	9500 MPR Adaptive Modulation RTU
3MU00086AAAA	9500 MPR MSP Ring RTU
3MU00092AAAA	9500 MPR Packet Throughput Booster RTU
3MU00122AAAA	9500 MPR XPIC RTU
3MU00121AAAA	9500 MPR AES RTU
3MU00148AAAA	1588 TC RTU
3MU00149AAAA	1588 BC RTU
3MU00154AAAA	9500 MPR RTU 10G Interface
3MU00155AAAA	9500 MPR RTU MSS-O L1 LAG
3MU00156AAAA	9500 MPR RTU 5+ L1 LAG
3MU00175AAAA	Bandwidth Notifications RTU
3MU00180DFAA	RTU MSS-HE 10G
3MU00180VGAA	RTU CAHD 5+ Radios
3MU00180VEAA	RTU CAHD 9+ Radios
3MU00180VFAA	RTU CAHD 13+ Radios
	Upgrade (ASLM) RTU's - Table B2
3EM23577AAAA	RTU 40Mbps TRX Capacity Upgrade
3EM23577ABAA	RTU 80Mbps TRX Capacity Upgrade
3EM23577ACAA	RTU 120Mbps TRX Capacity Upgrade
3EM23577ADAA	RTU 160Mbps TRX Capacity Upgrade
3EM23577BBAA	RTU 220Mbps TRX Capacity Upgrade
3EM23577AEAA	RTU 320Mbps TRX Capacity Upgrade
3EM23577BCAA	RTU 450Mbps TRX Capacity Upgrade
3EM23577BTAA	RTU 500Mbps TRX Capacity Upgrade
3EM23577AFAA	9500 MPR Adaptive Modulation RTU Upgrade
3EM23577AGAA	9500 MPR 5.8GHz Unlicensed RTU Upgrade
3EM23577AUAA	9500 MPR MSP Ring RTU Upgrade
3EM23577AVAA	9500 MPR Packet Throughput Booster RTU Upgrade
3EM23577AYAA	9500 MPR XPIC RTU Upgrade
3EM23577AZAA	9500 MPR AES RTU Upgrade
3EM23577BPAA	1588 TC Upgrade
3EM23577BQAA	1588 BC Upgrade
3EM23577BUAA	9500 MPR RTU 10G Interface Upgrade
3EM23577BVAA	9500 MPR RTU MSS-O L1 LAG Upgrade
3EM23577BWAA	9500 MPR RTU 5+ L1 LAG Upgrade
3EM23577DAAA	Bandwidth Notifications RTU Upgrade

3MU00177DFAA	RTU MSS-HE 10G
3MU00177WBAA	RTU CAHD 5+ Radios Upgrade
	ASLM Capacity Upgrades - Table B3
3EM23577AHAA	Capacity Upgrade MPR-TR-40T80
3EM23577AJAA	Capacity Upgrade MPR-TR-40T120
3EM23577AKAA	Capacity Upgrade MPR-TR-40T160
3EM23577ALAA	Capacity Upgrade MPR-TR-40T320
3EM23577AMAA	Capacity Upgrade MPR-TR-80T120
3EM23577ANAA	Capacity Upgrade MPR-TR-80T160
3EM23577APAA	Capacity Upgrade MPR-TR-80T320
3EM23577AQAA	Capacity Upgrade MPR-TR120T160
3EM23577ARAA	Capacity Upgrade MPR-TR120T320
3EM23577ASAA	Capacity Upgrade MPT-TR160T320
3EM23577BDAA	Capacity Upgrade MPR-TR-40T220
3EM23577BEAA	Capacity Upgrade MPR-TR-80T220
3EM23577BFAA	Capacity Upgrade MPR-TR-120T220
3EM23577BGAA	Capacity Upgrade MPR-TR-160T220
3EM23577BHAA	Capacity Upgrade MPR-TR-40T450
3EM23577BJAA	Capacity Upgrade MPR-TR-80T450
3EM23577BKAA	Capacity Upgrade MPR-TR-120T450
3EM23577BLAA	Capacity Upgrade MPR-TR-160T450
3EM23577BMAA	Capacity Upgrade MPR-TR-220T450
3EM23577BNAA	Capacity Upgrade MPR-TR-320T450
3EM23577BYAA	Capacity Upgrade MPR-TR-40T500
3EM23577BZAA	Capacity Upgrade MPR-TR-80T500
3EM23577CAAA	Capacity Upgrade MPR-TR-120T500
3EM23577CBAA	Capacity Upgrade MPR-TR-160T500
3EM23577CCAA	Capacity Upgrade MPR-TR-220T500
3EM23577CDAA	Capacity Upgrade MPR-TR-320T500
3EM23577CEAA	Capacity Upgrade MPR-TR-450T500
	DOCUMENTATION (1 Per NE) - Table K3
3DB19275AFAA	Wavence 18 O&M Manual Electronic Delivery OLCS
3DB19275AGAA	Wavence 18A O&M Manual Electronic Delivery OLCS
3DB19275AHAA	Wavence 19 O&M Manual Electronic Delivery OLCS
3DB19275AJAA	Wavence 19A O&M Manual Electronic Delivery OLCS
3DB19275AKAA	Wavence 20 O&M Manual Electronic Delivery OLCS
3DB19275ALAA	Wavence 20A O&M Manual Electronic Delivery OLCS
3DB19785AABA	Wavence 20A Security Update 1 (SU1) Customer Documentation
3DB19275AMAA	Wavence 21 O&M Manual Electronic Delivery OLCS
3DB19275ANAA	Wavence 21A O&M Manual Electronic Delivery OLCS
3DB19275ANAB	Wavence 21A SP1 O&M Manual Electronic Del
3DB19275APAA	Wavence 22 O&M Manual Electronic Del
3DB19275AQAA	Wavence 22A O&M Manual Electronic Del
	Tributary Options OPTICS - Table A1
3EM20277AA	Optics SFP GigE 850 NM Multimode 550 Meter
3EM20277AB	Optics SFP GigE 1310 NM Singlemode 10 Kilometer
3CC50204AA	Optics SFP GigE 1310 NM Singlemode 40 Kilometer
3CC50170AA	Optics SFP GigE 1550 NM Singlemode 80 Kilometer
3DB80628AD	SFP Copper Cable, 0.5 M
3DB80628AE	SFP Copper Cable, 1.0 M
3DB80628AA	SFP Copper Cable, 1.5 M

3DB80628AB	SFP Copper Cable, 2.0 M
3DB80628AC	SFP Copper Cable, 3.0 M
3CC50167AA	Optical SFP (850 MM) for use in ODU - MPT-HC
3CC50168AA	Opt SFP 1000Base-LX for use in ODU - MPT-HC
3CC50169AA	Copper SFP (Finisar) - not for use on ODU
3CC50166AA	OC3 optical SFP, L.1.1
3CC50165AA	OC3 optical SFP, S.1.1
3CC50386AA	1000BASE-SX 2.5 Gbps
3CC50396AA	1000BASE-LX 1/2.5 Gbps
3CC50387AA	SFP+ 10GBASE-SR
3CC50388AA	SFP+ 10GBASE-LR
3CC50322AA	SFP+ 10GBASE-ER
3CC50183AA	SFP 1000Base-BX20-U
3CC50184AA	SFP 1000Base-BX20-D
3CC50399AA	AOXF TRX SFP+ BiDi 40Km 1270nm 10G
3CC50400AA	AOXE TRX SFP+ BiDi 40Km 1330nm 10G
3CC50397AA	AOXF TRX SFP+ BiDi 20Km 1270nm 10G
3CC50398AA	AOXE TRX SFP+ BiDi 20Km 1330nm 10G
3CC50200AA	SFP multi-rate CWDM 1490nm 40 km
3CC50201AA	SFP multi-rate CWDM 1550nm 40 km
3CC50201AB	SFP multi-rate CWDM 1510nm 40 km
3CC50201AC	SFP multi-rate CWDM 1530nm 40 km
3CC50201AD	SFP multi-rate CWDM 1570nm 40 km
3CC50201AE	SFP multi-rate CWDM 1590nm 40 km
3CC50201AF	SFP multi-rate CWDM 1610nm 40 km
3CC50201AG	SFP multi-rate CWDM 1470nm 40 km

Tributary Options DS1 Cables/Supplies - Table A1

1AF15245AB	32 E1/T1 Protection Panel - RJ45
3MU00173AA	DS1 Protection Panel 68 SCSI to 37 D-Sub
3CC52118AA	E1/T1 SCSI-SCSI Interface Cable (16 T1/E1 per Cable)
3EM21339AA	16 DS1 Cable Stub (SCSI-Open) 25' Main Side
3EM21339AB	16 DS1 Cable Stub (SCSI-Open) 25' Spare Side
3EM21339AC	16 DS1 Cable Stub (SCSI-Open) 50' Main Side
3EM21339AD	16 DS1 Cable Stub (SCSI-Open) 50' Spare Side
3EM23110AA	8 DS1 Cable Assembly (D-Open) 15'
3EM23110AB	8 DS1 Cable Assembly (D-Open) 30'
3EM23110AC	8 DS1 Cable Assembly (D-Open) 50'
3EM23110AD	8 DS1 Cable Assembly (D-Open) 100'
3DB16109AA	D-Connector Rack Mount Bracket

Tributary Options DS3 Cables/Supplies - Table A1

3EM22900AA	DS3 Protection Splitter Cable
3EM22687AA	DS3 BNC to Mini-BNC Cable - 2 Meter
3EM22687AB	DS3 BNC to Mini-BNC Cable - 5 Meter
3MU00190AA	DS3 DIN to BNC - 3 Meter
3MU00191AA	DS3 DIN Connector
3EM24462AA	DS3 Grooming Panel Kit

Tributary Options Sync Cables - Table A1

3DB05850AA	9500 MPR Sync Cable
3DB18204AA	9500 MPR Sync Y-Cable
3DB04295AA	9500 MPR Sync Cable (1.0/2.3 - 1.0/2.3) 1.1m
3DB02901AA	9500 MPR Sync Cable (1.0/2.3 - 1.0/2.3) 6.0m

3CC52203AA	9500 MPR Sync Cable for Sync SFP
	Tributary Options Ethernet Cables/Supplies - Table A1
3MU00085AA	1 ft RJ45 Cat5e Cable
3MU00085AB	2 ft RJ45 Cat5e Cable
3MU00085AC	3 ft RJ45 Cat5e Cable
3MU00085AD	6 ft RJ45 Cat5e Cable
3MU00085AE	10 ft RJ45 Cat5e Cable
3MU00085AF	20 ft RJ45 Cat5e Cable
3MU00085AG	30 ft RJ45 Cat5e Cable
3MU00085AH	50 ft RJ45 Cat5e Cable
3MU00085AJ	70 ft RJ45 Cat5e Cable
3MU00085AK	100 ft RJ45 Cat5e Cable
3MU00085AM	300 ft RJ45 Cat5e Cable
	ODU Coax Supplies - Table E2
1AF02957ABAA	11 GHz FlexTwist
	Fiber Optic Jumpers - Table A1
3EM07641AC	Fiber Optic Jumper Cable, LC to LC, 3 meter, multi mode
3EM07641AD	Fiber Optic Jumper Cable, LC to LC, 5 meter, multi mode
3EM07641AE	Fiber Optic Jumper Cable, LC to LC, 10 meter, multi mode
3EM07646AC	Fiber Optic Jumper Cable, LC to SC, 3 meter, multi mode
3EM07646AD	Fiber Optic Jumper Cable, LC to SC, 5 meter, multi mode
3EM07646AE	Fiber Optic Jumper Cable, LC to SC, 10 meter, multi mode
3EM07651AC	Fiber Optic Jumper Cable, LC to FC, 3 meter, multi mode
3EM07651AD	Fiber Optic Jumper Cable, LC to FC, 5 meter, multi mode
3EM07651AE	Fiber Optic Jumper Cable, LC to FC, 10 meter, multi mode
3EM07641AH	Fiber Optic Jumper Cable, LC to LC, 3 meter, single mode
3EM07641AJ	Fiber Optic Jumper Cable, LC to LC, 5 meter, single mode
3EM07641AK	Fiber Optic Jumper Cable, LC to LC, 10 meter, single mode
3EM07646AH	Fiber Optic Jumper Cable, LC to SC, 3 meter, single mode
3EM07646AJ	Fiber Optic Jumper Cable, LC to SC, 5 meter, single mode
3EM07646AK	Fiber Optic Jumper Cable, LC to SC, 10 meter, single mode
3EM07651AH	Fiber Optic Jumper Cable, LC to FC, 3 meter, single mode
3EM07651AJ	Fiber Optic Jumper Cable, LC to FC, 5 meter, single mode
3EM07651AK	Fiber Optic Jumper Cable, LC to FC, 10 meter, single mode
	R56 Grounding
1AD174570001	SBHB119K Horizontal Rack Ground Bar Kit
1AD214220001	Universal grd bar kit SB57903/19" rack
1AD214130001	(Vertical) Universal grd bar kit SBVB72K/19" rack for R56
406645671	#6 Ground cable-KS22641L1, Per FT
408406536	KIT-YA6C-L BOX PWR COMMO*
901350322	SCR M-.25 IN 20 TPI 1 IN*
407305549	WSHR LK-92147A029 SPLT 1*
900327453	FLAT WASHER, STAINLESS STEEL,1/4 INCH
900329830	NUT-300 HEX SST .250-20
1AD212050001	3" stand-ff for SAR per set of 2 for Router Integration
	Accessories
3EM16790RA	VoIP OrderWire,-48Vdc
	MPT-HL Shelf Kit - Table F

3EM24238AA	MPT-HL Shelf Kit Single T-R
3EM24238AB	MPT-HL Shelf Kit Dual T-R
	MPT-HLC MODULES - Table F1
3DB19060AA	MPT-HLC XCVR L6 GHZ
3DB19060BA	MPT-HLC XCVR L6 GHZ WITH COMBINER
3DB19060CA	MPT-HLC XCVR L6 GHZ HP
3DB19060DA	MPT-HLC XCVR L6 GHZ HP WITH COMBINER
3DB19060EA	MPT-HLC Plus XCVR L6
3DB19060FA	MPT-HLC Plus XCVR L6 WITH COMBINER
3DB19060GA	MPT-HLC Plus Std XCVR L6
3DB19060HA	MPT-HLC Plus Std XCVR L6 WITH COMBINER
3DB76047AA	MPT-HLC XCVR U6 GHZ
3DB76047BA	MPT-HLC XCVR U6 GHZ WITH COMBINER
3DB76047CA	MPT-HLC XCVR U6 GHZ HP
3DB76047DA	MPT-HLC XCVR U6 GHZ HP WITH COMBINER
3DB76047EA	MPT-HLC Plus XCVR U6
3DB76047FA	MPT-HLC Plus XCVR U6 WITH COMBINER
3DB76047GA	MPT-HLC Plus Std XCVR U6
3DB76047HA	MPT-HLC Plus Std XCVR U6 WITH COMBINER
3DB76078AA	MPT-HLC XCVR 10.5 GHZ
3DB76078BA	MPT-HLC XCVR 10.5 GHZ WITH COMBINER
3DB76050AA	MPT-HLC XCVR 11 GHZ
3DB76050BA	MPT-HLC XCVR 11 GHZ WITH COMBINER
3DB76050CB	MPT-HLC XCVR 11 GHZ HP
3DB76050DB	MPT-HLC XCVR 11 GHZ HP W/COMBINER
3DB76050GA	MPT-HLC Plus XCVR 11GHz
3DB76050HA	MPT-HLC Plus XCVR 11GHz WITH COMBINER
3CC50210AA	MPT-HLC Antenna Alignment Cable
	MPT-HLC XPIC Cables
3CC52204AA	XPIC cable RJ45-RJ45, 3 m
3CC52204AB	XPIC cable RJ45-RJ45, 5 m
3CC52204AC	XPIC cable RJ45-RJ45, 10 m
3CC52204AD	XPIC cable RJ45-RJ45, 0.5 m
3CC52204AE	XPIC cable RJ45-RJ45, 1 m
	MPT-HL Transmit Monitor Port Kit
3EM24447AA	6 GHz Transmit Monitor Port Kit
	Diplexer Bracket Kits - Table F2

3EM23465AA	6/11 GHz Hot Standby 1:10 Coupler Diplexer Bracket
3EM23465AB	6/11 GHz Hot Standby Space Diversity Diplexer Bracket
3EM23465AC	6/11 GHz 1+0 (Non-Standby) Diplexer Bracket
3EM23465AD	6/11 GHz Single Shelf Repeater Diplexer Bracket
3EM23465AF	2x(1+0). SD w/ Combiner
3EM23465AG	1+0, SD w/ Combiner
3EM23465AJ	Hot-Standby w/ Antenna Protection
3MU00117AA	UU6 GHz, HSB, 1:10 Coupler Diplexer Bracket Kit
3MU00117AB	UU6 GHz, 1+0 (Non-Stby) Diplexer Bracket Kit
3MU00117AC	UU6 GHz, HSB, HSB w/ SD Diplexer Bracket Kit
3MU00117AD	UU6 GHz, HSB, Single Shelf Repeater Diplexer Bracket Kit

	Diplexer Clamp and Isolator Kits -Lower 6Ghz - Table F3
3EM23466AA	L6 GHz Hot Standby 1:10 Coupler Diplexer Clamp and Isolator Kits
3EM23466AB	L6 GHz Hot Standby Space Diversity Diplexer Clamp and Isolator Kits
3EM23466AC	L6 GHz 1+0 (Non-Standby) Diplexer Clamp and Isolator Kits
3EM23466AD	L6 GHz Single Shelf Repeater Diplexer Clamp and Isolator Kits
3EM23466AP	L6 GHz 2x(1+0), SD w/ Combiner Diplexer Clamp and Isolator Kit
3EM23466AQ	L6 GHz 1+0, SD w/ Combiner Diplexer Clamp and Isolator Kit
3EM23466BB	L6 GHz Diplexer Clamp Kit Antenna Protection
	Dplxr Clamp, Isoltr & Cable Kits -L6Ghz 60 MHz Channels - Table F3
3DB76116AA	L6 GHz, 60 MHz Hot Standby 1:10 Coupler
3DB76119AA	L6 GHz, 60 MHz Hot Standby Space Diversity
3DB76117AA	L6 GHz, 60 MHz 1+0 (Non-Standby)
3DB76115AA	L6 GHz, 60 MHz 1+1 HSB, SD w/ Combiner
3DB76121AA	L6 GHz, 60 MHz 2x(1+0), SD w/ Combiner
3DB76118AA	L6 GHz, 60 MHz 1+0, SD w/ Combiner
3DB76195AA	Diplexer Kit 60 Mhz L6 w/ ant prot
	Diplexer Clamp and Isolator Kits -Upper 6Ghz - Table F3
3EM23466AE	U6 GHz Hot Standby 1:10 Coupler Diplexer Clamp and Isolator Kits
3EM23466AF	U6 GHz Hot Standby Space Diversity Diplexer Clamp and Isolator Kits
3EM23466AG	U6 GHz 1+0 (Non-Standby) Diplexer Clamp and Isolator Kits
3EM23466AH	U6 GHz Single Shelf Repeater Diplexer Clamp and Isolator Kits
3EM23466AT	U6 GHz 2x(1+0), SD w/ Combiner Diplexer Clamp and Isolator Kit
3EM23466AU	U6 GHz 1+0, SD w/ Combiner Diplexer Clamp and Isolator Kit
	Diplexer Clamp and Isolator Kits -Upper 5.8Ghz - Table F3
3EM23466AJ	5.8 GHz Hot Standby 1:10 Coupler Diplexer Clamp and Isolator Kits
3EM23466AK	5.8 GHz Hot Standby Space Diversity Diplexer Clamp and Isolator Kits
3EM23466AL	5.8 GHz 1+0 (Non-Standby) Diplexer Clamp and Isolator Kits
3EM23466AM	5.8 GHz Single Shelf Repeater Diplexer Clamp and Isolator Kits
	Diplexer Clamp and Isolator Kits - 10.5 Ghz - Table F3

3EM24188CA	10.5 GHz Hot Standby 1:10 Coupler Diplexer Clamp and Isolator Kits
3EM24188CC	10.5 GHz 1+0 (Non-Standby) Diplexer Clamp and Isolator Kits
3EM24188CD	10.5 GHz Single Shelf Repeater Diplexer Clamp and Isolator Kits
3EM24188CG	10.5 GHz 1+0, SD w/ Combiner Diplexer Clamp and Isolator Kit

	Diplexer Clamp and Isolator Kits - 11 Ghz - Table F3
3EM24188BA	11 GHz Hot Standby 1:10 Coupler Diplexer Clamp and Isolator Kits
3EM24188BB	11 GHz Hot Standby Space Diversity Diplexer Clamp and Isolator Kits
3EM24188BC	11 GHz 1+0 (Non-Standby) Diplexer Clamp and Isolator Kits
3EM24188BD	11 GHz Single Shelf Repeater Diplexer Clamp and Isolator Kits
3EM24188BF	11 GHz 2x(1+0), SD w/ Combiner Diplexer Clamp and Isolator Kit
3EM24188BG	11 GHz 1+0, SD w/ Combiner Diplexer Clamp and Isolator Kit
3EM24188BJ	11 GHz Diplexer Clamp Kit Antenna Prot9500 MPR
	RF Diplexer Filters - Table G
3EM24458AA	RF Diplexer Filter Xmt 5725-5755, Rcv 5790-5820, 30MHz
3EM24458AB	RF Diplexer Filter Xmt 5755-5785, Rcv 5820-5850, 30MHz
3EM24458AC	RF Diplexer Filter Xmt 5725-5755, Rcv 5820-5850, 30MHz

3EM16710AB	RF Diplexer Filter Xmt 5925-6175, Rcv 6175-6425, 10 MHz BW
3EM16710AC	RF Diplexer Filter Xmt 6175-6425, Rcv 5925-6175, 10 MHz BW
3EM24335AA	RF Diplexer Filter 5925-6425, 30MHz, Symmetrical
3DB76188AA	RF Diplexer Filter Xmt 5925-6175, Rcv 6175-6425, 60 MHz BW
3DB76189AA	RF Diplexer Filter Xmt 6175-6425, Rcv 5925-6175, 60 MHz BW
3EM09730AA	RF Diplexer Filter Xmt 6525-6875, Rcv 6525-6875, 10 MHz BW
3EM24333AA	RF Diplexer Filter Xmt 6525-6875, 30Mhz, Symmetrical
967-1585-003	RF Diplexer Filter Xmt 6440-6750, Rcv 6750-7080, 10 MHz BW
967-1585-004	RF Diplexer Filter Xmt 6750-7080, Rcv 6440-6750, 10 MHz BW
3EM24078AA	RF Diplexer Filter 10550-10680, 10 MHz BW, Symmetrical
3EM24081AA	RF Diplexer Filter 10700-11700, 30 MHz, Symmetrical
	RF Space Filters - Table G1
3EM11649AA	RF Diplexer Space Diversity Filter 5725-5755/30MHz
3EM11649AB	RF Diplexer Space Diversity Filter 5755-5785/30MHz
3EM11649AC	RF Diplexer Space Diversity Filter 5790-5820/30MHz
3EM11649AD	RF Diplexer Space Diversity Filter 5820-5850/30MHz
967-0506-002	RF Diplexer Space Diversity Filter 5925-6175 /10MHz BW
967-0506-003	RF Diplexer Space Diversity Filter 6175-6425 /10MHz BW
3EM04182AA	RF Diplexer Space Diversity Filter 5925-6050/30MHz
3EM04182AB	RF Diplexer Space Diversity Filter 6050-6175/30MHz
3EM04182AC	RF Diplexer Space Diversity Filter 6175-6300/30MHz
3EM04182AD	RF Diplexer Space Diversity Filter 6300-6425/30MHz
3DB76190AA	RF Diplexer Space Diversity Filter 5925-6175 /60MHz BW
3DB76191AA	RF Diplexer Space Diversity Filter 6175-6425 /60MHz BW
3EM19463AA	RF Diplexer Space Diversity Filter 6525-6875 / 10MHz BW
3EM04235AA	RF Diplexer Space Diversity Filter 6525-6710/30MHz
3EM04235AB	RF Diplexer Space Diversity Filter 6710-6875/30MHz
3EM04235AC	RF Diplexer Space Diversity Filter 6440-6580/30MHz
3EM04235AD	RF Diplexer Space Diversity Filter 6580-6740/30MHz
3EM04235AE	RF Diplexer Space Diversity Filter 6740-6920/30MHz
3EM04235AF	RF Diplexer Space Diversity Filter 6920-7080/30MHz
3EM24310AA	RF Diplexer Space Diversity Filter 10700-11200 / 30 MHz
3EM24310AB	RF Diplexer Space Diversity Filter 11200-11700 / 30 MHz
	Waveguide Transition Kits - Table G2
3EM23511AA	Diplexer Transition Assy A2 (6Ghz) Position Kit
3EM23511AB	Diplexer Transition Assy A3 (6Ghz) Position Kit
3EM23511AC	Diplexer Transition Assy A4 (6Ghz) Position Kit
3EM23511AD	Diplexer Transition Assy A5 (6Ghz) Position Kit
3EM23511AE	Flat Bracket Kit
3EM23511AF	Diplexer Transition Assy A2 (11 Ghz) Position Kit
3EM23511AG	Diplexer Transition Assy A3 (11 Ghz) Position Kit
3EM23511AH	Diplexer Transition Assy A4 (11 Ghz) Position Kit
3EM23511AJ	Diplexer Transition Assy A5 (11 Ghz) Position Kit
3EM23511AP	6 GHz Trans Kit A3'Transition Kit A3'
3EM23511AQ	6 GHz Trans Kit A3' FDTransition Kit A3' FD
3EM23511AR	6 GHz Trans Kit A4'Transition Kit A4'
3EM23511AS	6 GHz Trans Kit A4' FDTransition Kit A4' FD
3EM23511AT	11 GHz Trans Kit A3'Transition Kit A3'
3EM23511AU	11 GHz Trans Kit A3' FDTransition Kit A3' FD
3EM23511AV	11 GHz Trans Kit A4'Transition Kit A4'
3EM23511AW	11 GHz Trans Kit A4' FDTransition Kit A4' FD
3EM23511BC	6 GHz Ext Kit Top - A8

3EM23511BD	11 GHz Ext Kit Top - A8
	Waveguide Transition Kits - Table G3 (note 1007)
1AB077940016	Diplexer to Transition Cable Assy 228.6mm
1AB077940017	Diplexer to Transition Cable Assy 304.8mm
1AB077940018	Diplexer to Transition Cable Assy 381mm
	Stacking Filter Waveguide Kits - Lower 6 Ghz - Table H
3EM24123DA	Stacking Filter L6 GHz Hot Standby W/G Kit 1st MPT
3EM24123DB	Stacking Filter L6 GHz Hot Standby W/G Kit 1st & 2nd MPT
3EM24123DC	Stacking Filter L6 GHz Hot Stby W/G Kit 3rd MPT
3EM24123DD	Stacking Filter L6 GHz Hot Stby W/G Kit 3rd & 4th MPT
3EM24123DE	Stacking Filter L6 GHz Hot Stby W/G Kit Add-On 3rd MPT
3EM24123DG	Stacking Filter L6 GHz Hot Stby W/G Kit Add-On 2nd or 4th MPT
	Stacking Filter Waveguide Kits - Upper 6 Ghz - Table H
3EM24123EA	Stacking Filter U6 GHz Hot Standby W/G Kit 1st MPT
3EM24123EB	Stacking Filter U6 GHz Hot Standby W/G Kit 1st & 2nd MPT
3EM24123EC	Stacking Filter U6 GHz Hot Stby W/G Kit 3rd MPT
3EM24123ED	Stacking Filter U6 GHz Hot Stby W/G Kit 3rd & 4th MPT
3EM24123EE	Stacking Filter U6 GHz Hot Stby W/G Kit Add-On 3rd MPT
3EM24123EG	Stacking Filter U6 GHz Hot Stby W/G Kit Add-On 2nd or 4th MPT
	Stacking Filter Waveguide Kits - 6 Ghz - Table H
3EM24123AE	Stacking Filter 6 GHz Add-on Space Kit 1st MPT (HSB)
3EM24123AF	Stacking Filter 6 GHz Add-on Space Kit 1st & 2nd MPT (HSB)
3EM24123BF	Stacking Filter 6 GHz Add-on Space Kit 3rd MPT (HSB)
3EM24123BG	Stacking Filter 6 GHz Add-on Space Kit 3rd & 4th MPT (HSB)
3EM24123AG	Stacking Filter 6 GHz Add-on Space Kit 3rd MPT (HSB)
3EM24123AH	Stacking Filter 6 GHz Add-on Space Kit 3rd & 4th MPT (HSB)
3EM24123BR	Stacking Filter 6 GHz Add-on Space Kit 2nd or 4th MPT (HSB)
3EM24123AJ	Stacking Filter Initial Bracket Kit
3EM24123AK	Stacking Filter Flat Bracket Kit
3EM24123AW	Stacking Filter Stacker Bracket Kit
3EM24123AY	Stacking Filter 6 GHz Freq Div W/G Kit 1st MPT 1x(1+0)
3EM24123AM	Stacking Filter 6 GHz Freq Div W/G Kit 1st MPT 2x(1+0)
3EM24123AZ	Stacking Filter 6 GHz Freq Div W/G Kit 1st & 2nd MPT 3x(1+0)
3EM24123AN	Stacking Filter 6 GHz Freq Div W/G Kit 1st & 2nd MPT 4x(1+0)
3EM24123BA	Stacking Filter 6 GHz Freq Div W/G Kit 3rd MPT 2nd dir 1x(1+0)
3EM24123AP	Stacking Filter 6 GHz Freq Div W/G Kit 3rd MPT 2nd dir 2x(1+0)
3EM24123BB	Stacking Filter 6 GHz Freq Div W/G Kit 3rd & 4th MPT 2nd dir 3x(1+0)
3EM24123AQ	Stacking Filter 6 GHz Freq Div W/G Kit 3rd & 4th MPT 2nd dir 4x(1+0)
3EM24123BV	Stacking Filter 6 GHz Freq Div W/G Kit 2nd MPT 2nd Dir 2x(1+0)
3EM24123BU	Stacking Filter 6 GHz Freq Div W/G Kit 2nd MPT 2nd Dir 1x(1+0)
3EM24123BC	Stckg Fltr 6 GHz Freq Div W/G Kit Add-on 2nd/4th MPT Grow to 3x(1+0)
3EM24123BD	Stckg Fltr 6 GHz Freq Div W/G Kit Add-on 2nd/4th MPT Grow to 4x(1+0)
3EM24123BE	Stacking Filter 6 GHz Freq Div W/G Kit Add-On Kit Grow 2nd or 4th MPT
3EM24123BH	1st MPT Add Space Div to 1x(1+0) Kit (SD FD)
3EM24123BJ	1st MPT Add Space Div to 2x(1+0) Kit (SD FD)
3EM24123BK	1st & 2nd MPT Add Space Div to 3x(1+0) Kit (SD FD)
3EM24123BL	1st & 2nd MPT Add Space Div to 4x(1+0) Kit (SD FD)
3EM24123BM	3rd MPT Add Space Div to 1x(1+0) Kit (SD FD)
3EM24123BN	3rd MPT Add Space Div to 2x(1+0) Kit (SD FD)
3EM24123BP	3rd & 4th MPT Add Space Div to 3x(1+0) Kit (SD FD)

3EM24123BQ	3rd & 4th MPT Add Space Div to 4x(1+0) Kit (SD FD)
3EM24123BS	Field Add-On 2nd MPT to 1x(1+0) Kit or 4th MPT to 3x(1+0) (SD FD)
3EM24123BT	Field Add-On 3rd MPT to 2x(1+0) Kit (SD FD)
3EM24123BW	Add-on Space Div W/G Kit 1st MPT 1x(1+0)
3EM24123BY	Add-on Space Div W/G Kit 1st MPT 2x(1+0)
	Waveguide Extention Kits - Table L
3EM24123AR	6 GHz W/G Extension Kit Xmt/Rcv A8-A11
3EM24123AS	6 GHz W/G Extension Kit Space Div A8-A11 (MPT-HL)
3EM24123AV	6 GHz W/G Extension Kit Space Div A8-A11 (MPT-HLC)
3EM24123AU	6 GHz W/G Extension A8 to Top (Xmt/Rcv or Space Div)
3EM24123AT	6 GHz W/G Extension A3 to A8, A5 to A10 (Xmt/Rcv or Space Div)
3EM23867AC	Bracket, WG Support (2 hole)
	Stacking Filter Waveguide Kits- 11 Ghz - Table H
3EM24166EA	Stacking Filter WG Initial Comb Assy 11 GHz 1st MPT HSB
3EM24166EB	Stacking Filter WG Initial Comb Assy 11 GHz 1st & 2nd MPT HSB
3EM24166EC	Stacking Filter WG Add-on Assy 11 GHz 3rd MPT HSB
3EM24166ED	Stacking Filter WG Add-on Assy 11 GHz 3rd & 4th MPT HSB
3EM24166EE	Stacking Filter 11 GHz Hot Stby W/G Kit Add-On 3rd MPT
3EM24166EG	Stacking Filter 11 GHz Hot Stby W/G Kit Add-On 2nd or 4th MPT
3EM24166FE	Stacking Filter WG Add SD Assy 11 GHz 1st MPT (HSB)
3EM24166FF	Stacking Filter WG Add SD Assy 11 GHz 1st & 2nd MPT (HSB)
3EM24166FG	Stacking Filter WG Add SD Assy 11 GHz 3rd MPT (HSB)
3EM24166GR	Stacking Filter 11 GHz Add-on Space Kit 2nd or 4th MPT (HSB)
3EM24166AJ	Stacking Filter Initial Bracket Kit
3EM24123AK	Stacking Filter Flat Bracket Kit
3EM24123AW	Stacking Filter Stacker Bracket Kit
3EM24166FY	Stacking Filter 11 GHz Freq Div W/G Kit 1st MPT 1x(1+0)
3EM24166FL	Stacking Filter 11 GHz Freq Div W/G Kit 1st MPT 2x(1+0)
3EM24166FZ	Stacking Filter 11 GHz Freq Div W/G Kit 1st & 2nd MPT 3x(1+0)
3EM24166FM	Stacking Filter 11 GHz Freq Div W/G Kit 1st & 2nd MPT 4x(1+0)
3EM24166GA	Stacking Filter 11 GHz Freq Div W/G Kit 3rd MPT 2nd dir 1x(1+0)
3EM24166FN	Stacking Filter 11 GHz Freq Div W/G Kit 3rd MPT 2x(1+0)
3EM24166GB	Stacking Filter 11 GHz Freq Div W/G Kit 3rd & 4th MPT 2nd dir 3x(1+0)
3EM24166FP	Stacking Filter 11 GHz Freq Div W/G Kit 3rd & 4th MPT 4x(1+0)
3EM24166GV	Stacking Filter 11 GHz Freq Div W/G Kit 2nd MPT 2nd Dir 2x(1+0)
3EM24166GU	Stacking Filter 11 GHz Freq Div W/G Kit 2nd MPT 2nd Dir 1x(1+0)
3EM24166GC	Stckg Fltr 11 GHz Freq Div W/G Kit Add-on 2nd/4th MPT Grow to 3x(1+0)
3EM24166GD	Stckg Fltr 11 GHz Freq Div W/G Kit Add-on 2nd/4th MPT Grow to 4x(1+0)
3EM24166GE	Stacking Filter 11 GHz Freq Div W/G Kit Add-On Kit Grow 2nd MPT
3EM24166GW	Stacking Filter 11 GHz Freq Div W/G Kit Add-On Kit Grow 4th MPT
3EM24166GH	1st MPT Add Space Div to 1x(1+0) Kit (SD FD)
3EM24166GJ	1st MPT Add Space Div to 2x(1+0) Kit (SD FD)
3EM24166GK	1st & 2nd MPT Add Space Div to 3x(1+0) Kit (SD FD)
3EM24166GL	1st & 2nd MPT Add Space Div to 4x(1+0) Kit (SD FD)
3EM24166GM	3rd MPT Add Space Div to 1x(1+0) Kit (SD FD)
3EM24166GN	3rd MPT Add Space Div to 2x(1+0) Kit (SD FD)
3EM24166GP	3rd & 4th MPT Add Space Div to 3x(1+0) Kit (SD FD)
3EM24166GQ	3rd & 4th MPT Add Space Div to 4x(1+0) Kit (SD FD)
3EM24166GY	Field Add-On 4th MPT to 3x(1+0) Kit (SD FD)
3EM24166GT	Field Add-On 3rd MPT to 2x(1+0) Kit (SD FD)
3EM24166GZ	Add-on Space Div W/G Kit 1st MPT 1x(1+0)
3EM24166HA	Add-on Space Div W/G Kit 1st MPT 2x(1+0)

	Waveguide Extention Kits - Table L
3EM24166AQ	11 GHz WG Ext Xmt-Rcv Kit Positions A8-A11 Left or Right
3EM24166AR	11 GHz W/G Extension Kit Space Div A8-A11 (MPT-HL)
3EM24166AV	11 GHz W/G Extension Kit Space Div A8-A11 (MPT-HLC)
	RF Stacking Filters - 6 GHz Table J
3EM16948AG	RCV RF Stacking Filter 5725-5850 MHz
3EM16949AG	XMT RF Stacking Filter 5725-5850 MHz
3EM16948AA	RCV RF Stacking Filter 5925-6175 MHz
3EM16949AB	XMT RF Stacking Filter 6175-6425 MHz
3EM16948AB	RCV RF Stacking Filter 6175-6425 MHz
3EM16949AA	XMT RF Stacking Filter 5925-6175 MHz
3DB76113AA	RF Stacking Filter 5925-6175 MHz (XMT or RCV)
3DB76114AA	RF Stacking Filter 6175-6425 MHz (XMT or RCV)
3DB76092AA	60 MHz Filter Flange Adapter Kit
3EM16948AD	RCV RF Stacking Filter 6525-6875 MHz
3EM16949AD	XMT RF Stacking Filter 6525-6875 MHz
3EM16948AE	RCV RF Stacking Filter 6440-6740 MHz
3EM16949AF	XMT RF Stacking Filter 6740-7080 MHz
3EM16948AF	RCV RF Stacking Filter 6740-7080 MHz
3EM16949AE	XMT RF Stacking Filter 6440-6740 MHz
	RF Stacking Filters - 11 GHz - Table J
3EM24166JC	RF Filter Kit, Rcv 10.7 - 11.2, 30 MHz BW
3EM24166JD	RF Filter Kit, Rcv 11.2 - 11.7, 30 MHz BW
3EM24166JA	RF Filter Kit, Xmt 10.7 - 11.2, 30 MHz BW
3EM24166JB	RF Filter Kit, Xmt 11.2 - 11.7, 30 MHz BW
3EM24166JE	RF Filter Kit, 10.7 - 11.2, 60 MHz CH
3EM24166JF	RF Filter Kit, 11.2 - 11.7, 60 MHz CH
	Cable Kits - Table J1
3EM23523AJ	Stacking Cable Assy Hot Standby 1:10 Coupler
3EM23523AK	Stacking Cable Assy Hot Standby W/ Space Diversity
3EM23523AL	Stacking Cable Assy Freq Diversity 2x(1+0)
3EM23523AM	Stacking Cable Assy 1+0 Non-Standby Circulators Right-Rear
3EM23523AN	Stacking Cable Assy 1+0 Non-Standby Circulators Left-Rear
3EM23523AP	Stacking Cable Assy Expansion to 2x(1+0) Circulators Right-Rear
3EM23523AQ	Stacking Cable Assy Expansion to 2x(1+0) Circulators Left-Rear
3EM23523AR	Stacking Cable Assy Hot-Standby, Space Div with Combiner
3EM23523AS	Stacking Cable Assy Freq Diversity 2x(1+0), Space Div with Combiner
3EM23523AT	Freq Div 1x(1+0), Space Div w/Combiner Circulators Right-Rear
3EM23523AU	Freq Div 1x(1+0), Space Div w/Combiner Circulators Left-Rear
3EM23523AV	Expansion to 2x(1+0), SD w/ Combiner Circulators Right-Rear
3EM23523AW	Expansion to 2x(1+0), SD w/ Combiner Circulators Left-Rear
3EM23523AY	Hot Standby w/ Transmitter Diversity Antenna
	Isolator Kits - L6 - Table J2
3EM23524AA	Isolator Assy Lower 6 GHz Hot Standby 1:10 Coupler
3EM23524AB	Isolator Assy Lower 6 GHz Hot Standby Space Diversity or FD
3EM23524AC	Isolator Assy Lower 6 GHz 1+0 (Non-Standby)
3EM23524AH	Isolator Assy Lower 6 GHz 2x(1+0), Space Div w/ Combiner
3EM23524AJ	Isolator Assy Lower 6 GHz 1+0, Space Div w/ Combiner
3EM23524AK	Isolator Assy Lower 6 GHz Hot-Standby w/ Transmit Diversity Antenna

	Isolator Kits - U6 - Table J2
3EM23524AD	Isolator Assy Upper 6 GHz Hot Standby 1:10 Coupler
3EM23524AE	Isolator Assy Upper 6 GHz Hot Standby Space Diversity or FD
3EM23524AF	Isolator Assy Upper 6 GHz 1+0 (Non-Standby)
3EM23524AL	Isolator Assy Upper 6 GHz 1+1 HSB, Space Div w/ Combiner
3EM23524AM	Isolator Assy Upper 6 GHz 2x(1+0), Space Div w/ Combiner
3EM23524AN	Isolator Assy Upper 6 GHz 1+0, Space Div w/ Combiner
3EM23524AP	Isolator Assy Upper 6 GHz Hot-Standby w/ Transmit Diversity Antenna
	Isolator Kits - 10.5/11 GHz - Table J2
3EM24189AA	Isolator Assy 10.5/11 GHz Hot Standby 1:10 Coupler
3EM24189AB	Isolator Assy 10.5/11 GHz Hot Standby Space Diversity or FD
3EM24189AC	Isolator Assy 10.5/11 GHz 1+0 (Non-Standby)
3EM24189AD	Isolator Assy 10.5/11 GHz 1+1 HSB, Space Div w/ Combiner
3EM24189AE	Isolator Assy 10.5/11 GHz 2x(1+0), Space Div w/ Combiner
3EM24189AF	Isolator Assy 10.5/11 GHz 1+0, Space Div w/ Combiner
3EM24189AG	Isolator Assy 11 GHz Hot-Standby w/ Transmit Diversity Antenna
	Flange Adapter Kit - Table J3
3MU00179CA	W/G Flange CPR-137 Kit, 1 Port
3MU00179CE	W/G Flange CPR-90 Kit, 1 Port
	Waveguide - Table H
	ACCP Lower 6 GHz
3DB76151AB	KIT SUPPORT WG R70 UP/DOWN
3DB76152AC	KIT BRANCHING CH1 SIDE UP
3DB76153AC	KIT BRANCHING CH1 DOWN
3DB76154AB	KIT EXPANSION BRACKETS CHANNELS 3-5-7 UP/DOWN
3DB76155AB	KIT EXPANSION TX-RX CHANNELS 3-5-7
3DB76156AB	KIT EXPANSION TX-RX CH.2-4-6-8
3DB76157AC	KIT BRANCHING RX-DIV CH1 UP
3DB76158AC	KIT BRANCHING RX-DIV CH1 DOWN
3DB76159AB	KIT EXTENSION RX DIV. CHANNELS 3-5-7
3DB76161AB	KIT EXTENSION RX-DIV.CHANNELS 2-4-6-8 UP/DOWN
3DB76285AA	5.9-6.95 GHz circulator, RX
3DB01185AA	WR137 Power Absorber 5,6-7,1 GHz
3DB02412AA	FLANGED STUB L=47MM (x CH2)
3DB02414AA	FLANGED STUB L=141 MM (x CH3)
3DB02415AA	FLANGED STUB L=188 MM (x CH4)
3DB02417AA	FLANGED STUB L=282 MM (x CH5)
3DB02418AA	FLANGED STUB L=329 MM (x CH6)
3DB24240AA	FLANGED STUB L=423 MM (x CH7)
3DB76146AA	FLANGED STUB R70 L=470 MM (x CH8)
3DB76145AA	FLANGED STUB R70 (CPR137)
3DB76246AA	FLANGED STUB R70 (L=210mm) (CMR137)
3DB76131AA	TUNED 6 CAV FILTER 5.90-6.20 GHz CH 30 MHz
3DB76132AA	TUNED 6 CAV FILTER 6.15-6.45 GHz CH 30 MHz
3DB76286AA	TUNED 6 CAV FILTER 6,4-6,75 GHz CH 30 MHz (BW 25,5MHz)
3DB76287AA	TUNED 6 CAV FILTER 6.7-7,1 GHz CH 30 MHz (BW 25,5 MHz)
3DB76197AA	REJECTION FILTER 3 cav. 6L INF
3DB76198AA	REJECTION FILTER 3 cav. 6L SUP
3DB76113AA	RF Stacking Filter 5925-6175 MHz (XMT or RCV) 60 MHz

3DB76114AA	RF Stacking Filter 6175-6425 MHz (XMT or RCV) 60 MHz
3DB76199AA	REJECTION FILTER 6 CAV. 6L INF (Only for Ch 60 Mhz)
3DB76200AA	REJECTION FILTER 6 CAV. 6L SUP (Only for Ch 60 Mhz)
3CC50266AB	KIT SCREW FOR DOUBLE REJECTION FILTERS
3DB80438AA	SHORTING PLATE KIT
3DB76258AB	KIT BRANCHING TX SPLIT ON RXD 1+0 UP
3DB76259AB	KIT BRANCHING TX SPLIT ON RXD 1+0 DOWN
3DB76261AB	KIT EXP. CONFIG. 3+0 5+0 7+0 UP/DOWN
3DB76260AB	KIT.EXP. CONFIG. 2+0 4+0 6+0 8+0 UP/DOWN
3DB76162AA	KIT FIXING BRACKET BRANCH. CONFIG. 5+0 7+0
3DB76262AA	KIT FIX BRACKETS TX ON RXD FOR EVEN CONFIGURATION
1AB441920005	UW ISOLATOR COAX 5,73-6,43GHZ - 51A32-27*20dB
1AB456210001	UW ISOLATOR COAX 5,73-6,43GHZ - 51A32-29*20dB
1AB443880001	UW ISOLATOR COAX 6,43-7,25GHZ - 51A27-06* 20dB
1AB470490001	UW ISOLATOR COAX 6,43-7,13GHZ - 60D294-29* 20dB
3DB76304AA	KIT EXPANSION TX-RX CH9 6L-6U
3DB76305AA	KIT EXPANSION RX DIV. CH9 6L-6U
3DB76306AA	KIT EXPANSION CONFIG 9+0 TX-RX SPLIT ON RXD
3DB76307AA	KIT BRANCHING CONFIG. 10+0 TX-RX SPLIT ON RXD
	ACCP Cable Kits Lower 6 GHz
3EM23523CA	MPT-HLC ACCP Ch 1, 3, 5, 7 Cable Kit
3EM23523CB	MPT-HLC ACCP Ch 2, 4, 6, 8 Cable Kit
3EM23523CC	6 G MPT-HLC ACCP SD Ch 1,3,5,7 Cable Kit
3EM23523CD	6 G MPT-HLC ACCP SD Ch 2,4,6,8 Cable Kit
	ACCP 11 GHz
3DB76151AB	KIT SUPPORT WG UP/DOWN
3DB76151AC	KIT SUPPORT WG UP/DOWN
3DB76201AB	KIT BRANCHING TX-RX CH1 SIDE UP 11 GHz
3DB76202AB	KIT BRANCHING CH1 SIDE DOWN 11 GHz
3DB76203AB	KIT EXT. BRACKETS CHANNELS 3-5-7 11 GHz
3DB76204AA	KIT EXT. TX-RX CH 3-5-7 UP/DOWN 11 GHz
3DB76205AA	KIT EXT. TX-RX CH 2-4-6-8 UP/DOWN 11GHz
3DB76206AB	KIT BRANCHING RX-DIV CH1 UP 11 GHz
3DB76207AB	KIT BRANCHING RX-DIV CH1 DOWN 11 GHz
3DB76208AA	KIT EXT RX-DIV. CH 3-5-7 UP/DOWN 11 GHz
3DB76209AA	KIT EXT RX-DIV.CH 2-4-6-8 UP/DOWN 11 GHz
3DB02132AA	11 GHZ CIRCULATOR
3DB80566AA	FILTER 11,2-11,7 GHZ 6 CAV.BW 40 MHZ
3DB80567AA	FILTER 10,7-11,2 GHZ 6 CAV.BW 40 MHZ
3DB76228AA	FILTER 11,2-11,7 GHZ 6 CAV.BW 40 MHZ
3DB76229AA	FILTER 10,7-11,2 GHZ 6 CAV.BW 40 MHZ
3DB02189AA	TERMINATION 11-13GHZ WR75
3DB76215AA	FLANGED STUB R120 L=261mm (TX-RX and RXD - UP)
3DB76223AA	DOUBLE BEND E PLANE R120 (TX-RX - DOWN)
3DB76222AA	FLANGED STUB R120 L=39mm (2CH)
3DB76216AA	FLANGED STUB R120 L=141mm (3CH)
3DB76217AA	FLANGED STUB R120 L=180mm (4CH)
3DB76218AA	FLANGED STUB R120 L=282mm (5CH)
3DB76219AA	FLANGED STUB R120 L=321mm (6CH)
3DB76220AA	FLANGED STUB R120 L=423mm (7CH)
3DB76221AA	FLANGED STUB R120 L=462mm (8CH)
3DB80699AA	CLOSED KIT CHANNEL CIRCULATOR

3DB76264AA	FLANGED STUB R120 L=564mm (9CH)
3DB76265AA	FLANGED STUB R120 L=603mm (10CH)
3DB76266AA	FLANGED STUB R120 L=705mm (11CH)
3DB76270AA	KIT CLOSURE EMPTY SLOT
3DB76271AA	KIT BRANCHING TX SPLIT ON RXD 1+0 UP
3DB76272AA	KIT BRANCHING TX SPLIT ON RXD 1+0 DOWN
3DB76281AA	KIT EXP. 2+0 TX SPLIT ON RXD UP AND DOWN
3DB76273AA	KIT EXP. CONFIG. 3+0 5+0 7+0 9+0 11+0
3DB76274AA	KIT EXP. CONFIG. 4+0 6+0 8+0 9+0 10+0
3DB76276AA	KIT FIX. BRACKET TX ON RXD FOR EVEN CONFIG
	ACCP Cable Kits 11 GHz
3EM23523CE	MPT-HLC ACCP Ch 1, 3, 5, 7 Cable Kit
3EM23523CF	MPT-HLC ACCP Ch 2, 4, 6, 8 Cable Kit
3EM23523CG	11 G MPT-HLC ACCP SD Ch 1,3,5,7 Cable Kit
3EM23523CH	11 G MPT-HLC ACCP SD Ch 2,4,6,8 Cable Kit
	Outdoor PoE
3DB19194AA	PD-9501GO/FP/AC-NA
3DB19195AA	PD-OUT-MBK
	MPT-HC Cables
3CC52191AA	Light Service alignment kit with LEMO connector
	MPT-HC CAT5e IM Table A6
1AC016760006	Cat5e cable - GLP is per foot
1AD040130004	Ground kit – (qty 3 per run, based on length)
3CC50251AA	Ground kit, 2M – (qty 3 per run, based on length)
1AB074610027	RJ-45 connector for indoor and outdoor ends of cat5e
1AB150990002	R2CT connector protection for RJ45 outdoor
1AD160490001	Tool HIROSE RJ45 IDU-ODU cable assembling
	MPT-HC CAT5e Cords A4
3CC52199AE	3m Preassembled CAT5e R2TC/RJ45
3CC52199AF	5m Preassembled CAT5e R2TC/RJ45
3CC52199AA	25m Preassembled CAT5e R2TC/RJ45
3CC52199AJ	40m Preassembled CAT5e R2TC/RJ45
3CC52199AB	50m Preassembled CAT5e R2TC/RJ45
3CC52199AC	75m Preassembled CAT5e R2TC/RJ45
3CC52199AD	100m Preassembled CAT5e R2TC/RJ45
	MPT-HC CAT5e Cords A4
3CC50097AA	Fiber storage -pole/wall mount (100m)
3CC50095AA	Fiber storage - rack mount (25 m)
	MPT-HC Battery IM
3CC50030AA	Single Lightning Arrest Kit
1AB251350001	LPF for batt, 2 wire N adapter (filters 48v from ODU)
1AB328430001	Lightning arrestor RJ-45 router output (MPRe)
3CC50158AA	Support for 1AB37230001 LA, max 8 LA
3CC52188AA	N- to Free Wire
3CC52159AA	Pig-tail, 2 wires to N-connector, 4 m (batt to N then LA, LPF...)
3CC52167AA	N- to RJ45
3EM23272AA	KIT SUPPORT FOR 3 CORDS N/QMA IDU

3EM23311AA	N Jack Bulkhead to QMA Plug (14 inch)
3EM23311AB	N Jack Bulkhead to QMA Plug (108 inch)
1AC014320002	Coaxial Cable LMR-400 FR - price per foot
357-9194-000	STRAIGHT MALE N MALE N COAXIAL Barrel
1AB095530045	Connector N PPC Straight Male
1AB095530044	Connector N PPC Right Angle Male
1AB095530046	Connector N PPC Straight Female
1AB383930001	Compression Tool for PPC
1AB350440001	LMR grounding kit
3CC50029AA	Single Lightning Arrest Bracket
3CC50149AA	Wall support 4 coax lightning arrestors
	UBT 5.8-6 GHz
3DB29105AA	UBT-S 6GHz
3DB29106AA	UBT-S 5.8-6GHz HP
3DB29205AA	UBT-T 6GHz
3DB29206AA	UBT-T 5.8-6GHz HP
3DB28582AA	AIM-S 5.8GHz 63 MHz SB1
3DB28582BA	AIM-S 5.8GHz 63 MHz SB2
3DB28584AA	AIM-S 6GHz 150 MHz SB1
3DB28584BA	AIM-S 6GHz 150 MHz SB2
3DB28589AA	AIM-S 6GHz 160/170/180 MHz SB1
3DB28589BA	AIM-S 6GHz 160/170/180 MHz SB2
3DB28589CA	AIM-S 6GHz 160/170/180 MHz SB3
3DB28589DA	AIM-S 6GHz 160/170/180 MHz SB4
3DB28590AA	AIM-S 6GHz 252,04 MHz SB1
3DB28590BA	AIM-S 6GHz 252,04 MHz SB2
3DB28590CA	AIM-S 6GHz 252,04 MHz SB3
3DB28591AA	AIM-S 6GHz 340 MHz SB1
3DB28591BA	AIM-S 6GHz 340 MHz SB2
3DB28591CA	AIM-S 6GHz 340 MHz SB3
3DB28768AA	AIM-T-C L6GHz 252.04MHz SB1 SB2
3DB28769AA	AIM-T-C L6GHz 252.04MHz SB2 SB3
3DB28552AA	AIM-T-C 6GHz 150 MHz SB1/SB1
3DB28552BA	AIM-T-C 6GHz 150 MHz SB2/SB2
3DB28553AA	AIM-T-C 6GHz 160/170/180 MHz SB1/SB1
3DB28553BA	AIM-T-C 6GHz 160/170/180 MHz SB2/SB2
3DB28553CA	AIM-T-C 6GHz 160/170/180 MHz SB3/SB3
3DB28553DA	AIM-T-C 6GHz 160/170/180 MHz SB4/SB4
3DB28554AA	AIM-T-C 6GHz 252,04 MHz SB1/SB1
3DB28554BA	AIM-T-C 6GHz 252,04 MHz SB2/SB2
3DB28554CA	AIM-T-C 6GHz 252,04 MHz SB3/SB3
3DB28556AA	AIM-T-C 6GHz 340 MHz SB1/SB1
3DB28556BA	AIM-T-C 6GHz 340 MHz SB2/SB2
3DB28556CA	AIM-T-C 6GHz 340 MHz SB3/SB3
3DB28915AA	AIM-T-O 5.8GHz 63 MHz SB1
3DB28915BA	AIM-T-O 5.8GHz 63 MHz SB2
3DB28622AA	AIM-T-O 6GHz 150 MHz SB1/SB1
3DB28622BA	AIM-T-O 6GHz 150 MHz SB2/SB2
3DB28623AA	AIM-T-O 6GHz 160/170/180 MHz SB1/SB1
3DB28623BA	AIM-T-O 6GHz 160/170/180 MHz SB2/SB2
3DB28623CA	AIM-T-O 6GHz 160/170/180 MHz SB3/SB3
3DB28623DA	AIM-T-O 6GHz 160/170/180 MHz SB4/SB4
3DB28624AA	AIM-T-O 6GHz 252,04 MHz SB1/SB1

3DB28624BA	AIM-T-O 6GHz 252,04 MHz SB2/SB2
3DB28624CA	AIM-T-O 6GHz 252,04 MHz SB3/SB3
3DB29574AA	AIM-T-O L6GHz 252.04MHz SB1/SB2
3DB29579AA	AIM-T-O 6GHz 252,04MHz SB2 SB3
3DB28625AA	AIM-T-O 6GHz 340 MHz SB1/SB1
3DB28625BA	AIM-T-O 6GHz 340 MHz SB2/SB2
3DB28625CA	AIM-T-O 6GHz 340 MHz SB3/SB3
3DB28507AA	AIM-T-D 5.8GHz 63 MHz SB1
3DB28507BA	AIM-T-D 5.8GHz 63 MHz SB2
3DB28510AA	AIM-T-D 6GHz 150 MHz SB1/SB1
3DB28510BA	AIM-T-D 6GHz 150 MHz SB2/SB2
3DB28514AA	AIM-T-D 6GHz 160/170/180 MHz SB1/SB1
3DB28514BA	AIM-T-D 6GHz 160/170/180 MHz SB2/SB2
3DB28514CA	AIM-T-D 6GHz 160/170/180 MHz SB3/SB3
3DB28514DA	AIM-T-D 6GHz 160/170/180 MHz SB4/SB4
3DB28520AA	AIM-T-D 6GHz 252,04 MHz SB1/SB1
3DB28520BA	AIM-T-D 6GHz 252,04 MHz SB2/SB2
3DB28520CA	AIM-T-D 6GHz 252,04 MHz SB3/SB3
3DB29575AA	AIM-T-D L6GHz 252.04MHz SB1/SB2
3DB29581AA	AIM-T-D 6GHz 252,04MHz SB2 SB3
3DB28521AA	AIM-T-D 6GHz 340 MHz SB1/SB1
3DB28521BA	AIM-T-D 6GHz 340 MHz SB2/SB2
3DB28521CA	AIM-T-D 6GHz 340 MHz SB3/SB3
3DB29604AA	AIM-T-D U6GHz 160MHz SB1/SB2
3DB29605AA	AIM-T-D U6GHz 160MHz SB2/SB3
3DB29606AA	AIM-T-D U6GHz 160MHz SB3/SB4
3DB29601AA	AIM-T-O U6GHz 160MHz SB1/SB2
3DB29602AA	AIM-T-O U6GHz 160MHz SB2/SB3
3DB29603AA	AIM-T-O U6GHz 160MHz SB3/SB4
3DB28765AA	AIM-T-C U6GHz 160MHz SB1/SB2
3DB28766AA	AIM-T-C U6GHz 160MHz SB2/SB3
3DB28767AA	AIM-T-C U6GHz 160MHz SB3/SB4
	UBT 11 GHz
3DB29110AC	UBT-S 10-11 GHz
3DB29111AC	UBT-S 10-11 GHz HP
3DB29210AC	UBT-T 10-11 GHz
3DB29211AC	UBT-T 10-11 GHz HP
3DB28210AA	AIM-S 11GHz 490-500-520-530MHz SB1
3DB28210BA	AIM-S 11GHz 490-520-530MHz SB2
3DB28210CA	AIM-S 11GHz 490-520-530MHz SB3
3DB28210DA	AIM-S 11GHz 490-500-520-530MHz SB4
3DB28211AA	AIM-T-C 11GHz 490-500-520-530MHz SB1
3DB28211BA	AIM-T-C 11GHz 490-520-530MHz SB2
3DB28211CA	AIM-T-C 11GHz 490-520-530MHz SB3
3DB28211DA	AIM-T-C 11GHz 490-500-520-530MHz SB4
3DB28212AA	AIM-T-O 11GHz 490-500-520-530MHz SB1
3DB28212BA	AIM-T-O 11GHz 490-520-530MHz SB2
3DB28212CA	AIM-T-O 11GHz 490-520-530MHz SB3
3DB28212DA	AIM-T-O 11GHz 490-500-520-530MHz SB4
3DB28227AA	AIM-T-C 11GHz 490-520-530MHz SB1 SB2
3DB28228AA	AIM-T-C 11GHz 490-520-530MHz SB2 SB3
3DB28229AA	AIM-T-C 11GHz 490-520-530MHz SB3 SB4
3DB28289AA	AIM-T-D 11GHz 490-520-530MHz SB1

3DB28289BA	AIM-T-D 11GHz 490-520-530MHz SB2
3DB28289CA	AIM-T-D 11GHz 490-520-530MHz SB3
3DB28289DA	AIM-T-D 11GHz 490-520-530MHz SB4
3DB29607AA	AIM-T-D 11GHz 490MHz SB1/SB2
3DB29608AA	AIM-T-D 11GHz 490MHz SB2/SB3
3DB29609AA	AIM-T-D 11GHz 490MHz SB3/SB4
3DB29356AA	AIM-T-O 11GHz 490MHz SB1/SB2
3DB29357AA	AIM-T-O 11GHz 490MHz SB2/SB3
3DB29358AA	AIM-T-O 11GHz 490MHz SB3/SB4
3DB28227AA	AIM-T-C 11GHz 490MHz SB1/SB2
3DB28228AA	AIM-T-C 11GHz 490MHz SB2/SB3
3DB28229AA	AIM-T-O 11GHz 490MHz SB3/SB4
	UBT 13-15 GHz
3DB29115AC	UBT-S 13-15 GHz
3DB29215AC	UBT-T 13-15 GHz
3DB28093AA	AIM-S 13GHz 225MHz SB1
3DB28093BA	AIM-S 13GHz 225MHz SB2
3DB28093CA	AIM-S 13GHz 225MHz SB3
3DB28093DA	AIM-S 13GHz 225MHz SB4
3DB28094AA	AIM-T-C 13GHz 225MHz SB1
3DB28094BA	AIM-T-C 13GHz 225MHz SB2
3DB28094CA	AIM-T-C 13GHz 225MHz SB3
3DB28094DA	AIM-T-C 13GHz 225MHz SB4
3DB28095AA	AIM-T-O 13GHz 225MHz SB1
3DB28095BA	AIM-T-O 13GHz 225MHz SB2
3DB28095CA	AIM-T-O 13GHz 225MHz SB3
3DB28095DA	AIM-T-O 13GHz 225MHz SB4
3DB28171AA	AIM-T-D 13GHz 225MHz SB1
3DB28171BA	AIM-T-D 13GHz 225MHz SB2
3DB28171CA	AIM-T-D 13GHz 225MHz SB3
3DB28171DA	AIM-T-D 13GHz 225MHz SB4
3DB28096AA	AIM-S 13GHz 266MHz SB1
3DB28096BA	AIM-S 13GHz 266MHz SB2
3DB28096CA	AIM-S 13GHz 266MHz SB3
3DB28097AA	AIM-T-C 13GHz 266MHz SB1
3DB28097BA	AIM-T-C 13GHz 266MHz SB2
3DB28097CA	AIM-T-C 13GHz 266MHz SB3
3DB28098AA	AIM-T-O 13GHz 266MHz SB1
3DB28098BA	AIM-T-O 13GHz 266MHz SB2
3DB28098CA	AIM-T-O 13GHz 266MHz SB3
3DB28172AA	AIM-T-D 13GHz 266MHz SB1
3DB28172BA	AIM-T-D 13GHz 266MHz SB2
3DB28172CA	AIM-T-D 13GHz 266MHz SB3
3DB28114BA	AIM-S 15GHz 475MHz SB2
3DB28114DA	AIM-S 15GHz 475MHz SB4
3DB28115BA	AIM-T-C 15GHz 475MHz SB2
3DB28115DA	AIM-T-C 15GHz 475MHz SB4
3DB28116BA	AIM-T-O 15GHz 475MHz SB2
3DB28116DA	AIM-T-O 15GHz 475MHz SB4
3DB28123AA	AIM-S 15GHz 640MHz SB1
3DB28124AA	AIM-T-C 15GHz 640MHz SB1
3DB28125AA	AIM-T-O 15GHz 640MHz SB1
3DB28177BA	AIM-T-D 15GHz 475MHz SB2

3DB28177DA	AIM-T-D 15GHz 475MHz SB4
3DB28180AA	AIM-T-D 15GHz 640MHz SB1
	UBT 18 GHz
3DB29118AB	UBT-S 18 GHz
3DB29218AB	UBT-T 18 GHz
3DB28066AB	AIM-S 18GHz 1560MHz SB1 (integrated and non-integrated antenna)
3DB28071AA	AIM-T-C 18GHz 1560MHz SB1
3DB28072AA	AIM-T-O 18GHz 1560MHz SB1
3DB28185AA	AIM-T-D 18GHz 1560MHz SB1
	UBT 23 GHz
3DB29123AB	UBT-S 23 GHz
3DB29223AB	UBT-T 23 GHz
3DB28090AA	AIM-S 23GHz 1200MHz SB1
3DB28090BA	AIM-S 23GHz 1200MHz SB2
3DB28090CA	AIM-S 23GHz 1200MHz SB3
3DB28091AA	AIM-T-C 23GHz 1200MHz SB1
3DB28091BA	AIM-T-C 23GHz 1200MHz SB2
3DB28091CA	AIM-T-C 23GHz 1200MHz SB3
3DB28222AA	AIM-T-C 23GHz 1200MHz SB1 SB2
3DB28223AA	AIM-T-C 23GHz 1200MHz SB2 SB3
3DB28092AA	AIM-T-O 23GHz 1200MHz SB1
3DB28092BA	AIM-T-O 23GHz 1200MHz SB2
3DB28092CA	AIM-T-O 23GHz 1200MHz SB3
3DB28744AA	AIM-T-O 23GHz 1200MHz SB1/SB2
3DB28745AA	AIM-T-O 23GHz 1200MHz SB2/SB3
3DB28189AA	AIM-T-D 23GHz 1200MHz SB1
3DB28189BA	AIM-T-D 23GHz 1200MHz SB2
3DB28189CA	AIM-T-D 23GHz 1200MHz SB3
3DB29612AA	AIM-T-D 23GHz 1200MHz SB1/SB2
3DB29613AA	AIM-T-D 23GHz 1200MHz SB2/SB3
	UBT 24-26 GHz
3DB29126AA	UBT-S 24-26 GHz
3DB29226AA	UBT-T 24-26 GHz
3DB28152AA	AIM-S 24GHz 800MHz SB1
3DB28153AA	AIM-T-C 24GHz 800MHz SB1
3DB28154AA	AIM-T-O 24GHz 800MHz SB1
3DB28190AA	AIM-T-D 24GHz 800MHz SB1
3DB30185AA	AIM-T-O 24GHz 350MHz SB1
3DB30187BA	AIM-T-O 24GHz 150MHz SB1
3DB30187CA	AIM-T-O 24GHz 150MHz SB2
3DB30187DA	AIM-T-O 24GHz 150MHz SB3
3DB30187AA	AIM-T-O 24GHz 150MHz SB4
3DB30186BA	AIM-T-O 24GHz 180MHz SB1
3DB30186CA	AIM-T-O 24GHz 180MHz SB2
3DB30186AA	AIM-T-O 24GHz 180MHz SB3
	UBT 28-32 GHz
3DB29132AA	UBT-S 28-32 GHz
3DB29232AA	UBT-T 28-32 GHz
3DB28666AA	AIM-S 28GHz 430-450MHz SB1
3DB28666BA	AIM-S 28GHz 430-450MHz SB2

3DB28666CA	AIM-S 28GHz 430-450MHz SB3
3DB28666DA	AIM-S 28GHz 430-450MHz SB4
3DB28669AA	AIM-T-C 28GHz 430-450MHz SB1
3DB28669BA	AIM-T-C 28GHz 430-450MHz SB2
3DB28669CA	AIM-T-C 28GHz 430-450MHz SB3
3DB28669DA	AIM-T-C 28GHz 430-450MHz SB4
3DB28672AA	AIM-T-O 28GHz 430-450MHz SB1
3DB28672BA	AIM-T-O 28GHz 430-450MHz SB2
3DB28672CA	AIM-T-O 28GHz 430-450MHz SB3
3DB28672DA	AIM-T-O 28GHz 430-450MHz SB4
3DB28675AA	AIM-T-D 28GHz 430-450MHz SB1
3DB28675BA	AIM-T-D 28GHz 430-450MHz SB2
3DB28675CA	AIM-T-D 28GHz 430-450MHz SB3
3DB28675DA	AIM-T-D 28GHz 430-450MHz SB4
3DB28668AA	AIM-S 32GHz 812MHz SB1
3DB28668BA	AIM-S 32GHz 812MHz SB2
3DB28671AA	AIM-T-C 32GHz 812MHz SB1
3DB28671BA	AIM-T-C 32GHz 812MHz SB2
3DB28674AA	AIM-T-O 32GHz 812MHz SB1
3DB28674BA	AIM-T-O 32GHz 812MHz SB2
3DB28677AA	AIM-T-D 32GHz 812MHz SB1
3DB28677BA	AIM-T-D 32GHz 812MHz SB2
	UBT 38 GHz
3DB29138AB	UBT-S 38 GHz
3DB29238AB	UBT-T 38 GHz
3DB28058AA	AIM-S 38GHz 700MHz SB1
3DB28058BA	AIM-S 38GHz 700MHz SB2
3DB28058CA	AIM-S 38GHz 700MHz SB3
3DB28058DA	AIM-S 38GHz 700MHz SB4
3DB28060AA	AIM-T-C 38GHz 700MHz SB1
3DB28060BA	AIM-T-C 38GHz 700MHz SB2
3DB28060CA	AIM-T-C 38GHz 700MHz SB3
3DB28060DA	AIM-T-C 38GHz 700MHz SB4
3DB28061AA	AIM-T-O 38GHz 700MHz SB1
3DB28061BA	AIM-T-O 38GHz 700MHz SB2
3DB28061CA	AIM-T-O 38GHz 700MHz SB3
3DB28061DA	AIM-T-O 38GHz 700MHz SB4
3DB28193AA	AIM-T-D 38GHz 700MHz SB1
3DB28193BA	AIM-T-D 38GHz 700MHz SB2
3DB28193CA	AIM-T-D 38GHz 700MHz SB3
3DB28193DA	AIM-T-D 38GHz 700MHz SB4
	UBT-m
3DB29170AB	UBT-m 80 GHz Low
3DB29180AB	UBT-m 80 GHz High
3DB29171AA	UBT-mX 80 GHz Low
3DB29181AA	UBT-mX 80 GHz High
3DB29178AA	UBT-mU 80 GHz Low
3DB29188AA	UBT-mU 80 GHz High
	UBT-m2
3DB29173AA	UBT-m2 80 GHz Low
3DB29183AA	UBT-m2 80 GHz High

3DB29172AA	UBT-mX2 80 GHz Low
3DB29182AA	UBT-mX2 80 GHz High
3DB29174AA	UBT-mU2 80 GHz Low
3DB29184AA	UBT-mU2 80 GHz High
	Network Interface Module
3DB28691AA	Network Interface Module (NIM)
	UBT Ancillary Equipment
3CC52225AA	Q-XCO to Octis optical pigtail
3DB28411AA	UBT-m XPIC cable 0,70 m
3DB28410AA	XPIC cable 2.5 m for UBT-S
3DB28410AB	XPIC cable 10 m for UBT-S
3DB28410AC	XPIC cable 15 m for UBT-S
3DB28410AD	XPIC cable 1 m for UBT-S
3CC50306AA	Adaptor nose 6 GHz
3CC50318AA	Adaptor nose 11GHz
3CC50321AA	Adaptor nose 38-42GHz
3CC50316AA	Adaptor nose 28-32GHz
3CC50310AA	Adaptor nose 13GHz
3CC50312AA	Adaptor nose 15GHz
3CC50314AA	Adaptor nose 18-26GHz
3CC58368AA	Coupler 3 dB 6GHz UBT
3CC58367AA	Coupler 10 dB 6GHz UBT
3CC58351AA	Coupler 3 dB 10/11 GHz UBT
3CC58350AA	Coupler 10 dB 10/11 GHz UBT
3CC58344AA	Coupler 3 dB 13-15 GHz UBT
3CC58348AA	Coupler 10 dB 13-15 GHz UBT
3CC58345AA	Coupler 3 dB 18-26 GHz UBT
3CC58341AA	Coupler 10 dB 18-26 GHz UBT
3CC58346AA	Coupler 3 dB 28-32 GHz UBT
3CC58342AA	Coupler 10 dB 28-32 GHz UBT
3CC58347BA	Coupler 3 dB 38-42 GHz UBT
3CC58343BA	Coupler 10 dB 38-42 GHz UBT
3CC58407AA	hybrid coupler 6 GHz 10 dB
3CC58406AA	hybrid coupler 6 GHz 3 dB
3CC58366AA	hybrid coupler 11 GHz 10 dB
3CC58365AA	hybrid coupler 11 GHz 3 dB
3CC58378AA	hybrid coupler 13 GHz 10 dB
3CC58379AA	hybrid coupler 13 GHz 3 dB
3CC58393AA	hybrid coupler 15 GHz 10 dB
3CC58394AA	hybrid coupler 15 GHz 3 dB
3CC58380AA	hybrid coupler 18-26 GHz 10 dB
3CC58381AA	hybrid coupler 18-26 GHz 3 dB
3CC58382AA	hybrid coupler 28-32 GHz 10 dB
3CC58383AA	hybrid coupler 28-32 GHz 3 dB
3CC58384AA	hybrid coupler 38 GHz 10 dB
3CC58385AA	hybrid coupler 38 GHz 3 dB
3CC56939AA	Ortho Mode Transducer UBT 6 GHz
3CC56875AA	Ortho Mode Transducer UBT 10/11 GHz
3CC56876AA	Ortho Mode Transducer UBT 13 GHz
3CC56878AA	Ortho Mode Transducer UBT 18 GHz
3CC56879AA	Ortho Mode Transducer UBT 23 GHz
3CC56882AA	Ortho Mode Transducer UBT 32 GHz

3CC56883AA	Ortho Mode Transducer UBT 38 GHz
3CC57114AA	OMT UBT 6 GHz stand-alone Commscope
3CC57116AA	OMT UBT 11 GHz stand-alone Commscope
3CC57117AA	OMT UBT 13-15 GHz stand-alone Commscope
3CC57119AA	OMT UBT 18 GHz stand-alone Commscope
3CC57120AA	OMT UBT 23 GHz stand-alone Commscope
3CC57121AA	OMT UBT 26 GHz stand-alone Commscope
3CC57122AA	OMT UBT 28 GHz stand-alone Commscope
3CC57123AA	OMT UBT 32 GHz stand-alone Commscope
3CC57124AA	OMT UBT 38 GHz stand-alone Commscope
3CC57125AA	OMT UBT 42 GHz stand-alone Commscope
3CC57126AA	OMT UBT 80 GHz stand-alone
3CC58402AA	OMT-C UBT 6Ghz Supports Any Antenna Supplier
3CC58389AA	OMT-C UBT 10/11 GHz Supports Any Antenna Supplier
3CC58395AA	OMT-C UBT 13 GHz Supports Any Antenna Supplier
3CC58390AA	OMT-C UBT 15 GHz Supports Any Antenna Supplier
3CC58391AA	OMT-C UBT 18 GHz Supports Any Antenna Supplier
3CC58396AA	OMT-C UBT 23 GHz Supports Any Antenna Supplier
3CC58397AA	OMT-C UBT 26 GHz Supports Any Antenna Supplier
3CC58398AA	OMT-C UBT 28 GHz Supports Any Antenna Supplier
3CC58399AA	OMT-C UBT 32 GHz Supports Any Antenna Supplier
3CC58400AA	OMT-C UBT 38 GHz Supports Any Antenna Supplier
3CC58401AA	OMT-C UBT 42 GHz Supports Any Antenna Supplier
1AF30445AAAA	Sway Bar for OMT-C 6-8GHz
3CC58363AA	Load for Unused Coupler 6GHz
3CC58334AA	Pole mount for remote UBT/non-integrated ant config with AIM-C (nose adapter is needed)
3CC58338AA	Pole mount for remote UBT/non integ ant config with AIM-D (no nose adptr needed)
3CC50367AA	Waveguide to N-type for 5.8Ghz
3MU00189AA	UBT-S 5.8Ghz Non-Ingreated Antenna Kit
3MU00189AB	UBT-T 5.8Ghz Non-Ingreated Antenna Kit
	UBT-m Install Material
3DB29343AA	UBT-mU pole mount
3DB29526AA	L-shaped wall bracket for UBT-mU mount
3DB29337AA	Spacers for UBT-mU + NIM
3DB28731AB	UBT-m optical alignment tool (needed for UBT-mU)
3DB28743AA	UBT-m Lab bench assembly
	Dual Band
3CC56820AB	Dual Band Antenna 18/80Ghz
3CC56825AB	Dual Band Antenna 15/80Ghz
3CC56826AB	Dual Band Antenna 23/80Ghz
3CC58386AA	OMT for Dual Band antenna 15/80 GHz
3CC58387AA	OMT for Dual Band antenna 18/80 GHz
3CC58388AA	OMT for Dual Band antenna 23/80 GHz
3CC57340AA	Dual Band Antenna 28/80Ghz, 2'
3CC57282AA	Dual Band Antenna 18/80Ghz, 1'
	Flex twist
3CC50328AA	Flex twist 13 GHz WR75 PBR120/PBR140 1,2m
3CC50329AA	Flex twist 15 GHz WR62 PBR140/PBR140 1,2m
3CC50330AA	Flex twist 18 GHz WR42 PBR220/PBR220 1,2m
3CC50341AA	Flex twist 11GHz WR90 PBR100/PBR120 1.2m

	UBT Indoor
3CC50332AA	ASSY Bracket UBT-S or AIM-T-C std rack
3CC50336AA	ASSY bracket AIM-T-D std and sismic rack
3CC50345AA	ASSY Bracket UBT-S or AIM-T-C sism. rack
3CC50348AA	ASSY Bend E-plane UDR70 6 GHz
3CC50350AA	ASSY Bend E-plane UBR84 7-8 GHz
3CC50351AA	ASSY Bend E-plane UBR100 10-11 GHz
3CC50352AA	ASSY Bend E-plane UBR120 13 GHz
3CC50353AA	ASSY Bend E-plane UBR140 15 GHz
3CC50354AA	ASSY Bend E-plane UBR220 18-26 GHz
3CC50355AA	ASSY Bend E-plane UBR320 28-42 GHz
	UBT AIM Replacement Gaskets
3DB28829AA	Kit gasket AIM-S 10-42GHz - spare only
3DB28830AA	Kit gasket AIM-T 10-42GHz - spare only
3DB28834AA	Kit gasket AIM-S 6/7/8GHz - spare only
3DB28835AA	Kit gasket AIM-T 6/7/8GHz - spare only
	UBT AIM Replacement Gaskets
3DB29768AA	UBT-S/T Replacment Screw Kit
3DB29769AA	UBT-m Replacment Screw Kit
	UBT-T 5.8-6 GHz
3DB31206LA	UBT-T XP L6
3DB31206UA	UBT-T XP U6
3DB29681AA	AIM-T-C XP 6GHz 252,04MHz SB1
3DB29681BA	AIM-T-C XP 6GHz 252,04MHz SB2
3DB29681CA	AIM-T-C XP 6GHz 252,04MHz SB3
3DB29870AA	AIM-T-C XP 6GHz 252,04MHz SB1 + SB2
3DB29870BA	AIM-T-C XP 6GHz 252,04MHz S2 + SB3
3DB29680AA	AIM-T-C XP 6GHz 160-170MHz SB1
3DB29680BA	AIM-T-C XP 6GHz 160-170MHz SB2
3DB29680CA	AIM-T-C XP 6GHz 160-170MHz SB3
3DB29680DA	AIM-T-C XP 6GHz 160-170MHz SB4
3DB29682BA	AIM-T-C XP 6GHz 340MHz SB2
3DB29682CA	AIM-T-C XP 6GHz 340MHz SB3
3DB29689AA	AIM-T-D XP 6GHz 252,04MHz SB1
3DB29689BA	AIM-T-D XP 6GHz 252,04MHz SB2
3DB29689CA	AIM-T-D XP 6GHz 252,04MHz SB3
3DB29872AA	AIM-T-D XP 6GHz 252,04MHz SB1 + SB2
3DB29872BA	AIM-T-D XP 6GHz 252,04MHz SB2 + SB3
3DB29688AA	AIM-T-D XP 6GHz 160-170MHz SB1
3DB29688BA	AIM-T-D XP 6GHz 160-170MHz SB2
3DB29688CA	AIM-T-D XP 6GHz 160-170MHz SB3
3DB29688DA	AIM-T-D XP 6GHz 160-170MHz SB4
3DB29690AA	AIM-T-D XP 6GHz 340MHz SB1
3DB29690BA	AIM-T-D XP 6GHz 340MHz SB2
3DB29690CA	AIM-T-D XP 6GHz 340MHz SB3
3DB29685AA	AIM-T-O XP 6GHz 252,04MHz SB1
3DB29685BA	AIM-T-O XP 6GHz 252,04MHz SB2
3DB29685CA	AIM-T-O XP 6GHz 252,04MHz SB3
3DB29871AA	AIM-T-O XP 6GHz 252,04MHz SB1 + SB2
3DB29871BA	AIM-T-O XP 6GHz 252,04MHz SB2 + SB3

3DB29684AA	AIM-T-O XP 6GHz 160-170MHz SB1
3DB29684BA	AIM-T-O XP 6GHz 160-170MHz SB2
3DB29684CA	AIM-T-O XP 6GHz 160-170MHz SB3
3DB29684DA	AIM-T-O XP 6GHz 160-170MHz SB4
3DB29686AA	AIM-T-O XP 6GHz 340MHz SB1
3DB29686BA	AIM-T-O XP 6GHz 340MHz SB2
3DB29686CA	AIM-T-O XP 6GHz 340MHz SB3
	UBT-T XP 6/11
3DB31611LA	UBT-T XP L6/11
3DB31611UA	UBT-T XP U6/11
3DB29775AA	AIM-TD 6+11 GHz 252.04/490-530 SB1LA / SB1LB
3DB29776AA	AIM-TD 6+11 GHz 252 04/490-530 SB2LA / SB2LB
3DB29777AA	AIM-TD 6+11 GHz 252.04/490-530 SB3LA / SB3LB
3DB29778AA	AIM-TD 6+11 GHz 252.04/490-530 SB1HA / SB1HB
3DB29779AA	AIM-TD 6+11 GHz 252.04/490-530 SB2HA / SB2HB
3DB29780AA	AIM-TD 6+11 GHz 252.04/490-530 SB3HA / SB3HB
3DB29781AA	AIM-TD 6+11 GHz 160-170/490-530 SB1LA / SB1LB
3DB29782AA	AIM-TD 6+11 GHz 160-170/490-530 SB2LA / SB2LB
3DB29783AA	AIM-TD 6+11 GHz 160-170/490-530 SB3LA / SB3LB
3DB29784AA	AIM-TD 6+11 GHz 160-170/490-530 SB4LA / SB4LB
3DB29785AA	AIM-TD 6+11 GHz 160-170/490-530 SB1HA / SB1HB
3DB29786AA	AIM-TD 6+11 GHz 160-170/490-530 SB2HA / SB2HB
3DB29787AA	AIM-TD 6+11 GHz 160-170/490-530 SB3HA / SB3HB
3DB29788AA	AIM-TD 6+11 GHz 160-170/490-530 SB4HA / SB4HB
3DB29798AA	AIM-TD 6+11GHz 340/490-530SB1LA/SB1LB
3DB29799AA	AIM-TD 6+11GHz 340/490-530SB2LA/SB2LB
3DB29800AA	AIM-TD 6+11GHz 340/490-530SB3LA/SB3LB
3DB29801AA	AIM-TD 6+11GHz 340/490-530SB1HA/SB1HB
3DB29802AA	AIM-TD 6+11GHz 340/490-530SB2HA/SB2HB
3DB29803AA	AIM-TD 6+11GHz 340/490-530SB3HA/SB3HB
	UBT-T 11 GHz
3DB31611LA	UBT-T XP L6/11
3DB31611UA	UBT-T XP U6/11
3DB29775AA	AIM-TD 6+11 GHz 252.04/490-530 SB1LA / SB1LB
3DB29776AA	AIM-TD 6+11 GHz 252 04/490-530 SB2LA / SB2LB
3DB29777AA	AIM-TD 6+11 GHz 252.04/490-530 SB3LA / SB3LB
3DB29778AA	AIM-TD 6+11 GHz 252.04/490-530 SB1HA / SB1HB
3DB29779AA	AIM-TD 6+11 GHz 252.04/490-530 SB2HA / SB2HB
3DB29780AA	AIM-TD 6+11 GHz 252.04/490-530 SB3HA / SB3HB
3DB29781AA	AIM-TD 6+11 GHz 160-170/490-530 SB1LA / SB1LB
3DB29782AA	AIM-TD 6+11 GHz 160-170/490-530 SB2LA / SB2LB
3DB29783AA	AIM-TD 6+11 GHz 160-170/490-530 SB3LA / SB3LB
3DB29784AA	AIM-TD 6+11 GHz 160-170/490-530 SB4LA / SB4LB
3DB29785AA	AIM-TD 6+11 GHz 160-170/490-530 SB1HA / SB1HB
3DB29786AA	AIM-TD 6+11 GHz 160-170/490-530 SB2HA / SB2HB
3DB29787AA	AIM-TD 6+11 GHz 160-170/490-530 SB3HA / SB3HB
3DB29788AA	AIM-TD 6+11 GHz 160-170/490-530 SB4HA / SB4HB
3DB29798AA	AIM-TD 6+11GHz 340/490-530SB1LA/SB1LB
3DB29799AA	AIM-TD 6+11GHz 340/490-530SB2LA/SB2LB
3DB29800AA	AIM-TD 6+11GHz 340/490-530SB3LA/SB3LB
3DB29801AA	AIM-TD 6+11GHz 340/490-530SB1HA/SB1HB
3DB29802AA	AIM-TD 6+11GHz 340/490-530SB2HA/SB2HB

3DB29803AA	AIM-TD 6+11GHz 340/490-530SB3HA/SB3HB
	UBT Installation Material - OCTIS
1AB235300006	OCTIS housing for powering (high protec)
1AB235300007	OCTIS connector housing for powering
1AB235300005	OCTIS connector housing for fibers
1AB235300004	OCTIS connector housing for RJ45
3CC52229AA	OCTIS Pigtail N for DC
3CC52230AA	OCTIS Pigtail N for DC with protection
1AB469760001	OCTIS Extendstion Tube
	UBT Installation Material - Misc Coax
3EM23311AA	N Jack Bulkhead to QMA Plug (14 inch)
3EM23311AB	N Jack Bulkhead to QMA Plug (108 inch)
3CC52159AA	Pigtail 2-wires with N-female twd battery (indoor)
3CC52159BA	DC pigtail N to 2 wires outdoor
1AB357780003	QMA for coax (6.85mm) at EAC
3CC50030AA	Lightning arrestor for coax
3CC50030BA	Lightning arrestor for coax (XP)
1AB119710002	BNC-bananas adapter for antenna alignment
	UBT Installation Material - 6.85mm Coax
1AC041350002	Coax cable 6.85mm to power UBT (meter)
1AB095530048	N-female for coax cable 6.85mm
1AB095530036	N-male for coax cable 6.85mm
1AB095530037	N-male 90 for coax cable 6,85mm
1AD040130004	grounding kit for coax cable 6.85mm
3CC50251AA	Ground kit, 2M – (qty 3 per run, based on length)
	UBT Installation Material - 10.3 Coax
1AC001100022	Coax cable 10.3mm to power UBT (meter)
1AB095530047	N female connector for 10.3mm
1AB095530023	N-male straight for coax cable 10,3mm
1AB095530021	N-male 90 for coax cable 10,3mm
1AB128500002	Grounding kit for coax cable 10,3mm
	UBT Installation Material - 11.6 Coax
1AC063330001	Coax cable 11.6mm to power UBT (meter)
1AB504910001	N-male straight for coax cable 11.6mm
1AF32980AAAA	Grounding kit for coax cable 11.6mm
	UBT Installation Material - Power Injector
3DB19491AA	Outdoor Power Injector (OPI)
3DB19158AA	OPI Install Kit
3DB19739AA	Outdoor AC Power Supply (OACPS)
1AC052600002	Outdoor AC Power Cable (meter)
3DB19849AA	Wavence Power Supply
3DB19853AA	Wavence Power Supply Rack Mount Bracket
3DB19883AA	AC PFOE Injector - UK Plug
3DB19883BA	AC PFOE Injector - NAM Plug
3DB19883EA	AC PFoE Injector - NZ/AU Plug
	UBT Installation Material - SFP
3CC50387AA	SFP+ 10GBASE-SR

3CC50388AA	SFP+ 10G Base-LR
3CC50322AA	SFP+ 10G Base-ER
3CC50404AA	SFP+ 2.5G/10G Base-SR
3CC50405AA	SFP+ 2.5G/10G Base-LR
3CC50386AA	SFP 1000Base-SX 2,5Gbps
3CC50396AA	1000BASE-LX 1/2.5 Gbps
3CC50167AA	1000BASE-SX SFP (mm fiber only)
3CC50168AA	1000BASE-LX/LH SFP (mm or sm fiber)
	Optical Spittler/Combiner for UBT SA
1AB405730001	Optical splitter MM LC-LC 1m
1AB365420003	LC Adaptor
3EM09257AA	Fiber Management Panel
1AB432200001	Splitter/Combiner unit for 2x4 Management Panel SM LC
	UBT Installation Material - MM Fiber UBT to MSS/SAR
3CC52210BA	fiber cord MM LC-LC for UBT 5m
3CC52210BB	fiber cord MM LC-LC for UBT 10m
3CC52210BC	fiber cord MM LC-LC for UBT 25m
3CC52210BD	fiber cord MM LC-LC for UBT 50m
3CC52210BE	fiber cord MM LC-LC for UBT 80m
3CC52210BF	fiber cord MM LC-LC for UBT 100m
3CC52210BG	fiber cord MM LC-LC for UBT 120m
3CC52210BH	fiber cord MM LC-LC for UBT 140m
3CC52210BL	fiber cord MM LC-LC for UBT 160m
3CC52210BM	fiber cord MM LC-LC for UBT 180m
3CC52210BN	fiber cord MM LC-LC for UBT 200m
3CC52210BP	fiber cord MM LC-LC for UBT 220m
3CC52210BR	fiber cord MM LC-LC for UBT 250m
3CC52210BS	fiber cord MM LC-LC for UBT 300m
	UBT Installation Material - SM Fiber UBT to MSS/SAR
3CC52218BL	fiber cord SM LC-LC for UBT 5m
3CC52218BM	fiber cord SM LC-LC for UBT 10m
3CC52218BN	fiber cord SM LC-LC for UBT 25m
3CC52218BP	fiber cord SM LC-LC for UBT 50m
3CC52218BR	fiber cord SM LC-LC for UBT 80m
3CC52218BD	fiber cord SM LC-LC for UBT 100m
3CC52218BE	fiber cord SM LC-LC for UBT 120m
3CC52218BF	fiber cord SM LC-LC for UBT 140m
3CC52218BG	fiber cord SM LC-LC for UBT 160m
3CC52218BH	fiber cord SM LC-LC for UBT 180m
3CC52218BA	fiber cord SM LC-LC for UBT 200m
3CC52218BB	fiber cord SM LC-LC for UBT 250m
3CC52218BC	fiber cord SM LC-LC for UBT 300m
	UBT Installation Material - Fiber For UBT InterConnect
3CC52211BA	fiber cord MM LC-LC UBT-UBT 1m
3CC52211BE	fiber cord MM LC-LC UBT-UBT 2m
3CC52211BF	fiber cord MM LC-LC UBT-UBT 5m
3CC52211BB	fiber cord MM LC-LC UBT-UBT 10m
3CC52211BG	fiber cord MM LC-LC UBT-UBT 15m
3CC52211BC	fiber cord MM LC-LC UBT-UBT 20m
3CC52211BD	fiber cord MM LC-LC UBT-UBT 40m

	UBT Installation Material - Hybrid UBT Cable
1AB503120001	Hybrid UBT Cable - 4x4 Coax/Fiber - 120m
1AB503130001	Hybrid UBT Cable - 4x4 Coax/Fiber - 100m
1AB503140001	Hybrid UBT Cable - 4x4 Coax/Fiber - 80m
1AB503150001	Hybrid UBT Cable - 4x4 Coax/Fiber - 50m
1AB503160001	Hybrid UBT Cable - 4x4 Coax/Fiber - 25m
1AB503170001	Hybrid UBT Cable - 2x2 Coax/Fiber - 120m
1AB503180001	Hybrid UBT Cable - 2x2 Coax/Fiber - 80m
1AB503190001	Hybrid UBT Cable - 2x2 Coax/Fiber - 100m
1AB503200001	Hybrid UBT Cable - 2x2 Coax/Fiber - 50m
1AB503210001	Hybrid UBT Cable - 2x2 Coax/Fiber - 25m
HTPT-1-058-CT	Cutting Tool HYBRIFLEX 58 armor US
HTPT-1-078-CT	Cutting Tool HYBRIFLEX 78 armor US
HTRT-1-001-KIT	Ripcord removal kit US
	ASLM Capacity RTU - per UBT (single/twin)
3MU00177AAAA	RTU 50Mbps UBT-S Capacity
3MU00177ABAA	RTU 100Mbps UBT-S Capacity
3MU00177ACAA	RTU 160Mbps UBT-S Capacity
3MU00177ADAA	RTU 200Mbps UBT-S Capacity
3MU00177AEAA	RTU 300Mbps UBT-S Capacity
3MU00177AFAA	RTU 400Mbps UBT-S Capacity
3MU00177AGAA	RTU 600Mbps UBT-S Capacity
3MU00177AHAA	RTU 800Mbps UBT-S Capacity
3MU00177AJAA	RTU 1000Mbps UBT-S Capacity
3MU00177AKAA	RTU 300Mbps UBT-T Capacity
3MU00177ALAA	RTU 400Mbps UBT-T Capacity
3MU00177AMAA	RTU 600Mbps UBT-T Capacity
3MU00177ANAA	RTU 800Mbps UBT-T Capacity
3MU00177APAA	RTU 1Gbps UBT-T Capacity
3MU00177AQAA	RTU 1.5Gbps UBT-T Capacity
3MU00177ARAA	RTU 2Gbps UBT-T Capacity
3MU00177ASAA	RTU 1Gbps UBT-m Capacity
3MU00177ATAA	RTU 1.5Gbps UBT-m Capacity
3MU00177AUAA	RTU 2Gbps UBT-m Capacity
3MU00177AVAA	RTU 3Gbps UBT-m Capacity
3MU00177AWAA	RTU 4Gbps UBT-m Capacity
3MU00177AXAA	RTU 5Gbps UBT-m Capacity
3MU00177AYAA	RTU 6Gbps UBT-m Capacity
3MU00177AZAA	RTU 10Gbps UBT-m Capacity
	Optional Features per UBT
3MU00177BAAA	RTU UBT-T 2nd TxRx activation
3MU00177BBAA	RTU UBT-m Large Channel Spacing
	Adaptive modulation - per UBT
3MU00177BDAA	RTU UBT-S Adp Mod
3MU00177BEAA	RTU UBT-T Adp Mod
3MU00177BFAA	RTU UBT-m Adp Mod Ad Bd Rate
	HQAM - per UBT
3MU00177BGAA	RTU UBT-S HQAM 2k/4k
3MU00177BHAA	RTU UBT-T HQAM 2k/4k

3MU00177BJAA	RTU UBT-m HQAM
	XPIC - per UBT
3MU00177BKAA	RTU UBT- S XPIC
3MU00177BLAA	RTU UBT-T XPIC
3MU00177BMAA	RTU UBT-m XPIC
	LAG/CA - per UBT link
3MU00177BNAA	RTU UBT CarrierAggreg. Multi freq
3MU00177BPAA	RTU UBT CarrierAggreg Eband+MW
	10G UBT
3MU00177DCAA	UBT-T 10G Full Outdoor
3MU00177DDAA	UBT-m 10G Full Outdoor
3MU00177DEAA	UBT-S 10G Full Outdoor
	Capacity Upgrades - per UBT
3MU00177BTAA	UBT-T Upgrade 300Mb to 400Mb
3MU00177BUAA	UBT-T Upgrade 400Mb to 600Mb
3MU00177BVAA	UBT-T Upgrade 600Mb to 800Mb
3MU00177BWAA	UBT-T Upgrade 800Mb to 1000Mb
3MU00177BXAA	UBT-T Upgrade 1000Mb to 1500Mb
3MU00177BYAA	UBT-T Upgrade 1500Mb to 2000Mb
3MU00177BZAA	UBT-m Upgrade 1000Mb to 1500Mb
3MU00177CAAA	UBT-m Upgrade 1500Mb to 2000Mb
3MU00177CBAA	UBT-m Upgrade 2000Mb to 3000Mb
3MU00177CCAA	UBT-m Upgrade 3000Mb to 4000Mb
3MU00177CDAA	UBT-m Upgrade 4000Mb to 5000Mb
3MU00177CEAA	UBT-m Upgrade 5000Mb to 6000Mb
3MU00177CFAA	UBT-m Upgrade 6000Mb to 10Gb
3MU00177CGAA	UBT-S Upgrade 50Mb to 100Mb
3MU00177CHAA	UBT-S Upgrade 100Mb to 160Mb
3MU00177CJAA	UBT-S Upgrade 160Mb to 200Mb
3MU00177CKAA	UBT-S Upgrade 200Mb to 300Mb
3MU00177CLAA	UBT-S Upgrade 300Mb to 400Mb
3MU00177CMAA	UBT-S Upgrade 400Mb to 600Mb
3MU00177CNAA	UBT-S Upgrade 600Mb to 800Mb
3MU00177CPAA	UBT-S Upgrade 800Mb to 1000Mb
	SDN
3MU00177DAAA	Wavence Netconf RTU
3MU00177DBAA	Wavence L3VPN RTU
3MU00177DHAA	Wavence Dynamic L3 OSPF RTU
	OCM
3MU00177DGAA	RTU OCM
	MISC
3MU00177DJAA	RTU TWAMP Responder
3MU00177DKAA	RTU Y.1731
3MU00177DPAA	RTU Fast Re-route (FRR)
3MU00177DQAA	RTU Traffic Engineering (TE)
	AES

3MU00177DLAA	RTU AES UBT-S Stand Alone
3MU00177DMAA	RTU AES UBT-T Stand Alone
3MU00177DRAA	RTU AES UBT-I Stand Alone Supported with W22
	CAHD
3MU00177WBAA	RTU CAHD 5+ Radios Upgrade
	Factory Capacity RTU - per UBT (single/twin)
3MU00180AAAA	RTU 50Mbps UBT-S Capacity
3MU00180ABAA	RTU 100Mbps UBT-S Capacity
3MU00180ACAA	RTU 160Mbps UBT-S Capacity
3MU00180ADAA	RTU 200Mbps UBT-S Capacity
3MU00180AEAA	RTU 300Mbps UBT-S Capacity
3MU00180AFAA	RTU 400Mbps UBT-S Capacity
3MU00180AGAA	RTU 600Mbps UBT-S Capacity
3MU00180AHAA	RTU 800Mbps UBT-S Capacity
3MU00180AJAA	RTU 1000Mbps UBT-S Capacity
3MU00180AKAA	RTU 300Mbps UBT-T Capacity
3MU00180ALAA	RTU 400Mbps UBT-T Capacity
3MU00180AMAA	RTU 600Mbps UBT-T Capacity
3MU00180ANAA	RTU 800Mbps UBT-T Capacity
3MU00180APAA	RTU 1Gbps UBT-T Capacity
3MU00180AQAA	RTU 1.5Gbps UBT-T Capacity
3MU00180ARAA	RTU 2Gbps UBT-T Capacity
3MU00180ASAA	RTU 1Gbps UBT-m Capacity
3MU00180ATAA	RTU 1.5Gbps UBT-m Capacity
3MU00180AUAA	RTU 2Gbps UBT-m Capacity
3MU00180AVAA	RTU 3Gbps UBT-m Capacity
3MU00180AWAA	RTU 4Gbps UBT-m Capacity
3MU00180AXAA	RTU 5Gbps UBT-m Capacity
3MU00180AYAA	RTU 6Gbps UBT-m Capacity
3MU00180AZAA	RTU 10Gbps UBT-m Capacity
	Optional Features per UBT
3MU00180BAAA	RTU UBT-T 2nd TxRx activation
3MU00180BBAA	RTU UBT-m Large Channel Spacing
	Adaptive modulation - per UBT
3MU00180BDAA	RTU UBT-S Adp Mod
3MU00180BEAA	RTU UBT-T Adp Mod
3MU00180BFAA	RTU UBT-m Adp Mod Ad Bd Rate
	HQAM - per UBT
3MU00180BGAA	RTU UBT-S HQAM 2k/4k
3MU00180BHAA	RTU UBT-T HQAM 2k/4k
3MU00180BJAA	RTU UBT-m HQAM
	XPIC - per UBT
3MU00180BKAA	RTU UBT- S XPIC
3MU00180BLAA	RTU UBT-T XPIC
3MU00180BMAA	RTU UBT-m XPIC
	LAG/CA - per UBT link
3MU00180BNAA	RTU UBT CarrierAggreg. Multi freq

3MU00180BPAA	RTU UBT CarrierAggreg Eband+MW
	StandAlone - UBT
3MU00180VAAA	RTU UBT-S Stand Alone
3MU00180VBAA	RTU UBT-T Stand Alone
3MU00180VCAA	RTU UBT-m Stand Alone
3MU00180VDAA	RTU UBT-I Stand Alone
	OCM - UBT
3MU00180DGAA	RTU OCM
	MISC - per UBT
3MU00180DJAA	RTU TWAMP Responder
3MU00180DKAA	RTU Y.1731
3MU00180DPAA	RTU Fast Re-route (FRR)
3MU00180DQAA	RTU Traffic Engineering (TE)
	L6Ghz OCM Body
3DB28888AA	OCM 5.9-6.95GHz 4Ch CP MAIN
3DB28889AA	OCM 5.9-6.95GHz 4Ch CP EXTENSION
3DB28890AA	OCM 5.9-6.95GHz 2x2Ch AP
3DB29717AA	OCM 5.9-6.95GHz 2+0 CP
	U6Ghz OCM Body
3DB28927AA	OCM 6U 4Ch CP MAIN
3DB28928AA	OCM 6U 4Ch CP EXTENSION
3DB28929AA	OCM 6U 2x2Ch AP
3DB29718AA	OCM 6U 2+0 CP
	11GHz OCM Body
3DB28891AA	OCM 10.7-11.7GHz 4Ch CP MAIN
3DB28892AA	OCM 10.7-11.7Ghz 4Ch CP EXTENSION
3DB28893AA	OCM 10.7-11.7GHz 2x2Ch AP
	6Ghz Filters
3DB76131AA	TUNED 6 CAV FILTER 5.90-6.20 GHz CH 30 MHz
3DB76132AA	TUNED 6 CAV FILTER 6.15-6.45 GHz CH 30 MHz
3DB76286AA	TUNED 6 CAV FILTER 6,4-6,75 GHz CH 30 MHz (BW 25,5MHz)
3DB76287AA	TUNED 6 CAV FILTER 6.7-7,1 GHz CH 30 MHz (BW 25,5 MHz)
3DB76113AA	RF Stacking Filter 5925-6175 MHz (XMT or RCV) 60 MHz
3DB76114AA	RF Stacking Filter 6175-6425 MHz (XMT or RCV) 60 MHz
3DB76197AA	REJECTION FILTER 3 cav. 6L INF
3DB76198AA	REJECTION FILTER 3 cav. 6L SUP
3DB76199AA	REJECTION FILTER 6 CAV. 6L INF (Only for Ch 60 MHz)
3DB76200AA	REJECTION FILTER 6 CAV. 6L SUP (Only for Ch 60 MHz)
	11Ghz Filters
3DB28982AA	FILTER 10.7-11.2 GHZ Hardened 30Mhz
3DB28983AA	FILTER 11.2-11.7 GHZ Hardened 30Mhz
3DB28984AA	FILTER 10.7-11.2 GHZ Hardened 40Mhz
3DB28985AA	FILTER 11.2-11.7 GHZ Hardened 40Mhz
3DB28991AA	FILTER 10,7-11,2 GHZ Hardened 60Mhz
3DB28992AA	FILTER 11,2-11,7 GHZ Hardened 60Mhz
3DB28996AA	FILTER 10,7-11,2 GHZ Hardened 80Mhz

3DB28997AA	FILTER 11,2-11,7 GHZ Hardened 80Mhz
	OCM Flex Twist to Antenna
1AF02951ABAA	Flextwist 5,85GHz-8,2GHz PDR70/UDR70 1m
1AF11977AAAA	Flextwist 7,05GHz-10GHz PDR84/UBR84 1m
3CC50018AA	Flextwist 8,2-12,4GHz PDR100/UBR100 1m
	Extension from 1m -> 2m
1AF02951ABAA	Flextwist 5,85GHz-8,2GHz PDR70/UDR70 1m
1AF02957ABAA	Flextwist 8,2-12,4GHz PBR100/UBR100 1m
	Connection between OCM When two OCM must be interconnected, use one bend and one flextwist.
3CC50392AA	BEND H PLANE PDR70/UDR70 for OCM
3CC50393AA	BEND H PLANE PDR84/UDR84 for OCM
3CC50394AA	BEND H PLANE PDR100/UDR100 for OCM
3CC50366AA	Flextwist 6 GHz WR137 PDR70/PDR70 1,2m for OCM
3CC50369AA	Flextwist WR112 PDR84/PDR84 7/8 GHz 1.2 m for OCM
3CC50370AA	Flextwist WR90 PDR100/PDR100 11 GHz 1.2 m for OCM
	UBT-I Modules
3DB76338AA	UBT-I XCVR L6 GHZ
3DB76338BA	UBT-I XCVR L6 GHZ WITH COMBINER
3DB76338CA	UBT-I XCVR L6 GHZ HP
3DB76338DA	UBT-I XCVR L6 GHZ HP WITH COMBINER
3DB76339AA	UBT-I XCVR U6 GHZ
3DB76339BA	UBT-I XCVR U6 GHZ WITH COMBINER
3DB76339CA	UBT-I XCVR U6 GHZ HP
3DB76339DA	UBT-I XCVR U6 GHZ HP WITH COMBINER
3DB76342AA	UBT-I XCVR 11 GHZ
3DB76342BA	UBT-I XCVR 11 GHZ W/COMBINER
3DB76342CA	UBT-I XCVR 11GHz HP
3DB76342DA	UBT-1 XCVR 11GHz HP W/COMBINER
	UBT-I ACCP Filters
3DB76369AA	FILTER 11.2-11.7 GHZ 6CAV. BW 36 MHz
3DB76370AA	FILTER 10.7-11.2 GHZ 6CAV. BW 36 MHz
3DB29529AA	FILTER 10,7-11,2 GHZ 5 CAV BW 69 MHZ
3DB29530AA	FILTER 10,7-11,2 GHZ 5 CAV BW 69 MHZ
3EM24166JG	RF Filter Kit, 10.7 - 11.2, 80 MHz CH
3EM24166JH	RF Filter Kit, 11.2 - 11.7, 80 MHz CH
3EM24166JJ	RF Filter Kit, 10.7 - 11.2, 40 MHz CH
3EM24166JK	RF Filter Kit, 11.2 - 11.7, 40 MHz CH
	UBT-I Capacity RTU - per UBT-I
3MU00177FAAA	RTU 50Mbps UBT-I Capacity
3MU00177FBAA	RTU 100Mbps UBT-I Capacity
3MU00177FCAA	RTU 160Mbps UBT-I Capacity
3MU00177FDAA	RTU 200Mbps UBT-I Capacity
3MU00177FEAA	RTU 300Mbps UBT-I Capacity
3MU00177FFAA	RTU 400Mbps UBT-I Capacity
3MU00177FGAA	RTU 600Mbps UBT-I Capacity

3MU00177FHAA	RTU 800Mbps UBT-I Capacity
3MU00177FJAA	RTU 1000Mbps UBT-I Capacity
3MU00177EDAA	RTU UBT-I Adp Mod
3MU00177EKAA	RTU UBT-I XPIC
3MU00177ECAA	UBT-I 10G Stand Alone
3MU00177EGAA	RTU UBT-I HQAM 2k/4k
3MU00177GGAA	UBT-I Upgrade 50Mb to 100Mb
3MU00177GHAA	UBT-I Upgrade 100Mb to 160Mb
3MU00177GJAA	UBT-I Upgrade 160Mb to 200Mb
3MU00177GKAA	UBT-I Upgrade 200Mb to 300Mb
3MU00177GLAA	UBT-I Upgrade 300Mb to 400Mb
3MU00177GMAA	UBT-I Upgrade 400Mb to 600Mb
3MU00177GNAA	UBT-I Upgrade 600Mb to 800Mb
3MU00177GPAA	UBT-I Upgrade 800Mb to 1000Mb
	UBT-I Factory Capacity RTU - per UBT-I
3MU00180FAAA	RTU 50Mbps UBT-I Capacity
3MU00180FBAA	RTU 100Mbps UBT-I Capacity
3MU00180FCAA	RTU 160Mbps UBT-I Capacity
3MU00180FDAA	RTU 200Mbps UBT-I Capacity
3MU00180FEAA	RTU 300Mbps UBT-I Capacity
3MU00180FFAA	RTU 400Mbps UBT-I Capacity
3MU00180FGAA	RTU 600Mbps UBT-I Capacity
3MU00180FHAA	RTU 800Mbps UBT-I Capacity
3MU00180FJAA	RTU 1000Mbps UBT-I Capacity
3MU00180GKAA	RTU UBT-I XPIC
3MU00180GGAA	RTU UBT-I HQAM 2k/4k
3MU00177DRAA	RTU AES UBT-I Stand Alone

END of Wavence Family Price Catalog

f the 9500 MPR Family

Spare	NASPO ValuePoint MSRP	NASPO ValuePoint Discount %	NASPO ValuePoint Unit Price
N	\$ 1,075.00	34.00%	\$ 709.50
N	\$ 2,450.00	34.00%	\$ 1,617.00
N	\$ 1,200.00	34.00%	\$ 792.00
N	\$ 1,150.00	34.00%	\$ 759.00
N	\$ 1,350.00	34.00%	\$ 891.00
N	\$ 660.00	34.00%	\$ 435.60
N	\$ 50.00	34.00%	\$ 33.00
N	\$ 55.00	34.00%	\$ 36.30
N	\$ 150.00	34.00%	\$ 99.00
N	\$ 450.00	34.00%	\$ 297.00

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N	\$ 1,450.00	34.00%	\$ 957.00
N	\$ 65.00	34.00%	\$ 42.90
N	\$ 26,500.00	34.00%	\$ 17,490.00
N	\$ 1,619.24	34.00%	\$ 1,068.70
N	\$ 3,320.66	34.00%	\$ 2,191.64
N	\$ 5,591.92	34.00%	\$ 3,690.67
N	\$ 5,953.50	34.00%	\$ 3,929.31
N	\$ 5,075.16	34.00%	\$ 3,349.61
N	\$ 2,989.48	34.00%	\$ 1,973.06
N	\$ 3,242.15	34.00%	\$ 2,139.82
N	\$ 2,276.70	34.00%	\$ 1,502.62
N	\$ 54,644.00	34.00%	\$ 36,065.04

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Changed 5/15/2023

N	\$ 4,460.85	34.00%	\$ 2,944.16
N	\$ 5,800.00	34.00%	\$ 3,828.00
N	\$ 2,150.00	68.00%	\$ 688.00
N	\$ 750.00	68.00%	\$ 240.00
N	\$ 40.60	68.00%	\$ 12.99
N	\$ 90.00	68.00%	\$ 28.80
N	\$ 150.00	68.00%	\$ 48.00
N	\$ 1,430.00	68.00%	\$ 457.60
N	\$ 525.00	68.00%	\$ 168.00
Y	\$ 500.00	68.00%	\$ 160.00
Y	\$ 330.00	68.00%	\$ 105.60
N	\$ 121.00	68.00%	\$ 38.72
N	\$ 216.00	34.00%	\$ 142.56
N	\$ 55.00	34.00%	\$ 36.30
Y	\$ 112.00	34.00%	\$ 73.92
N	\$ 60.00	34.00%	\$ 39.60
N	\$ 80.00	34.00%	\$ 52.80
N	\$ 60.00	34.00%	\$ 39.60
N	\$ 80.00	34.00%	\$ 52.80
Y	\$ 3,200.00	68.00%	\$ 1,024.00
Y	\$ 3,250.00	68.00%	\$ 1,040.00
N	\$ 0.77	34.00%	\$ 0.51
Y	\$ 1,562.50	68.00%	\$ 500.00
Y	\$ 3,200.00	68.00%	\$ 1,024.00
Y	\$ 5,000.00	68.00%	\$ 1,600.00
Y	\$ 80.00	68.00%	\$ 25.60
Y	\$ 170.00	68.00%	\$ 54.40
Y	\$ 3,375.00	68.00%	\$ 1,080.00
Y	\$ 3,375.00	68.00%	\$ 1,080.00
N	\$ 275.00	34.00%	\$ 181.50
Y	\$ 42.00	34.00%	\$ 27.72
N	\$ 197.00	34.00%	\$ 130.02
N	\$ 9.00	34.00%	\$ 5.94
N	\$ 12.00	34.00%	\$ 7.92
N	\$ 324.00	34.00%	\$ 213.84
N	\$ 135.00	34.00%	\$ 89.10
N	\$ 157.00	34.00%	\$ 103.62
N	\$ 199.00	34.00%	\$ 131.34
Y	\$ 1,300.00	68.00%	\$ 416.00
Y	\$ 3,010.00	68.00%	\$ 963.20
Y	\$ 2,030.00	68.00%	\$ 649.60
Y	\$ 2,200.00	68.00%	\$ 704.00

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Added 5/15/2023

Changed 4/5/2022

Y	\$ 2,400.00	68.00%	\$ 768.00	
Y	\$ 1,200.00	68.00%	\$ 384.00	
Y	\$ 1,000.00	68.00%	\$ 320.00	
Y	\$ 750.00	68.00%	\$ 240.00	
Y	\$ 1,800.00	68.00%	\$ 576.00	
Y	\$ 1,426.56	68.00%	\$ 456.50	
Y	\$ 3,200.00	68.00%	\$ 1,024.00	Add 4/5/2022
Y	\$ 2,500.00	68.00%	\$ 800.00	Add 4/5/2022
Y	\$ 3,400.00	68.00%	\$ 1,088.00	Add 4/5/2022
Y	\$ 4,400.00	68.00%	\$ 1,408.00	Add 4/5/2022
Y	\$ 4,700.00	68.00%	\$ 1,504.00	Add 4/5/2022
				Add 4/5/2022
Y	\$ 3,280.00	68.00%	\$ 1,049.60	Add 4/5/2022
Y	\$ 2,300.00	68.00%	\$ 736.00	Add 4/5/2022
Y	\$ 2,700.00	68.00%	\$ 864.00	Add 4/5/2022
Y	\$ 1,872.00	68.00%	\$ 599.04	Add 4/5/2022
Y	\$ 2,072.00	68.00%	\$ 663.04	Add 4/5/2022
Y	\$ 1,000.00	68.00%	\$ 320.00	Add 4/5/2022
Y	\$ 2,500.00	68.00%	\$ 800.00	Add 4/5/2022
Y	\$ 1,300.00	68.00%	\$ 416.00	Add 4/5/2022
Y	\$ 2,500.00	68.00%	\$ 800.00	Added 5/15/2023
N	\$ 300.00	34.00%	\$ 198.00	Changed 4/5/2022
N	\$ 1,200.00	34.00%	\$ 792.00	
N	\$ 1,000.00	34.00%	\$ 660.00	
N	\$ 2,790.00	34.00%	\$ 1,841.40	
N	\$ 1,550.00	68.00%	\$ 496.00	Added 5/15/2023
N	\$ 68.00	68.00%	\$ 21.76	Added 5/15/2023
N	\$ 100.00	68.00%	\$ 32.00	
N	\$ 1,000.00	68.00%	\$ 320.00	
N	\$ 100.00	68.00%	\$ 32.00	
N	\$ 100.00	68.00%	\$ 32.00	
N	\$ 100.00	68.00%	\$ 32.00	
N	\$ 1,000.00	68.00%	\$ 320.00	
N	\$ 1,500.00	68.00%	\$ 480.00	
N	\$ 1,000.00	68.00%	\$ 320.00	
N	\$ 100.00	68.00%	\$ 32.00	
N	\$ 100.00	68.00%	\$ 32.00	
N	\$ 1,500.00	68.00%	\$ 480.00	
N	\$ 1,000.00	68.00%	\$ 320.00	

N	\$ 100.00	68.00%	\$ 32.00	
N	\$ 1,000.00	68.00%	\$ 320.00	
				Add 4/5/2022
N	\$ 5,000.00	68.00%	\$ 1,600.00	Add 4/5/2022
N	\$ 100.00	68.00%	\$ 32.00	
N	\$ 1,000.00	68.00%	\$ 320.00	
N	\$ 100.00	68.00%	\$ 32.00	Add 4/5/2022
N	\$ 1,000.00	68.00%	\$ 320.00	Add 4/5/2022
N	\$ 100.00	68.00%	\$ 32.00	
N	\$ 100.00	68.00%	\$ 32.00	
N	\$ 100.00	68.00%	\$ 32.00	
N	\$ 1,000.00	68.00%	\$ 320.00	
				Add 4/5/2022
N	\$ 100.00	68.00%	\$ 32.00	Add 4/5/2022
N	\$ 1,000.00	68.00%	\$ 320.00	Add 4/5/2022
N	\$ 100.00	68.00%	\$ 32.00	Add 4/5/2022
N	\$ 100.00	68.00%	\$ 32.00	Add 4/5/2022
N	\$ 100.00	68.00%	\$ 32.00	Add 4/5/2022
N	\$ 1,000.00	68.00%	\$ 320.00	Add 4/5/2022
N	\$ 1,000.00	68.00%	\$ 320.00	Added 5/15/2023
N	\$ 140.00	68.00%	\$ 44.80	Added 5/15/2023
N	\$ 140.00	68.00%	\$ 44.80	Added 5/15/2023
N	\$ 145.00	68.00%	\$ 46.40	Added 5/15/2023
N	\$ 1,000.00	68.00%	\$ 320.00	Added 5/15/2023
N	\$ 140.00	68.00%	\$ 44.80	Add 4/5/2022
N	\$ 140.00	68.00%	\$ 44.80	Add 4/5/2022
N	\$ 140.00	68.00%	\$ 44.80	Add 4/5/2022
N	\$ 1,000.00	68.00%	\$ 320.00	Add 4/5/2022
N	\$ 1,000.00	68.00%	\$ 320.00	Added 5/15/2023
N	\$ 1,500.00	68.00%	\$ 480.00	
N	\$ 1,562.50	68.00%	\$ 500.00	
N	\$ 500.00	68.00%	\$ 160.00	
N	\$ 500.00	68.00%	\$ 160.00	
N	\$ 1,500.00	68.00%	\$ 480.00	
N	\$ 3,000.00	68.00%	\$ 960.00	
N	\$ 4,560.00	68.00%	\$ 1,459.20	

N	\$ 350.00	68.00%	\$ 112.00	
N	\$ 300.00	68.00%	\$ 96.00	
N	\$ 475.00	68.00%	\$ 152.00	Added 5/15/2023
N	\$ 200.00	68.00%	\$ 64.00	
Y	\$ 200.00	68.00%	\$ 64.00	Added 5/15/2023
N	\$ 1,910.00	68.00%	\$ 611.20	Changed 4/5/2022
N	\$ 75.00	68.00%	\$ 24.00	
N	\$ 500.00	68.00%	\$ 160.00	
N	\$ 2,000.00	68.00%	\$ 640.00	
N	\$ 3,500.00	68.00%	\$ 1,120.00	
N	\$ 4,250.00	68.00%	\$ 1,360.00	
N	\$ 5,000.00	68.00%	\$ 1,600.00	
N	\$ 6,500.00	68.00%	\$ 2,080.00	
N	\$ 7,000.00	68.00%	\$ 2,240.00	
N	\$ 1,500.00	68.00%	\$ 480.00	
N	\$ 1,500.00	68.00%	\$ 480.00	
N	\$ 1,500.00	68.00%	\$ 480.00	
N	\$ 4,000.00	68.00%	\$ 1,280.00	
N	\$ 1,200.00	68.00%	\$ 384.00	
N	\$ 5,000.00	68.00%	\$ 1,600.00	
N	\$ 1,500.00	68.00%	\$ 480.00	
N	\$ 2,000.00	68.00%	\$ 640.00	
N	\$ 2,500.00	68.00%	\$ 800.00	
N	\$ 1,000.00	68.00%	\$ 320.00	
N	\$ 5,500.00	68.00%	\$ 1,760.00	
N	\$ 1,500.00	68.00%	\$ 480.00	
N	\$ 2,500.00	68.00%	\$ 800.00	
N	\$ 5,500.00	68.00%	\$ 1,760.00	Added 5/15/2023
N	\$ 3,500.00	68.00%	\$ 1,120.00	Added 5/15/2023
N	\$ 3,500.00	68.00%	\$ 1,120.00	Added 5/15/2023
N	\$ 80.00	68.00%	\$ 25.60	
N	\$ 500.00	68.00%	\$ 160.00	
N	\$ 2,000.00	68.00%	\$ 640.00	
N	\$ 3,500.00	68.00%	\$ 1,120.00	
N	\$ 4,250.00	68.00%	\$ 1,360.00	
N	\$ 5,000.00	68.00%	\$ 1,600.00	
N	\$ 6,500.00	68.00%	\$ 2,080.00	
N	\$ 7,000.00	68.00%	\$ 2,240.00	
N	\$ 1,500.00	68.00%	\$ 480.00	
N	\$ 1,500.00	68.00%	\$ 480.00	
N	\$ 1,500.00	68.00%	\$ 480.00	
N	\$ 4,000.00	68.00%	\$ 1,280.00	
N	\$ 1,200.00	68.00%	\$ 384.00	
N	\$ 5,000.00	68.00%	\$ 1,600.00	
N	\$ 1,500.00	68.00%	\$ 480.00	
N	\$ 2,000.00	68.00%	\$ 640.00	
N	\$ 2,500.00	68.00%	\$ 800.00	
N	\$ 1,000.00	68.00%	\$ 320.00	
N	\$ 5,500.00	68.00%	\$ 1,760.00	
N	\$ 1,500.00	68.00%	\$ 480.00	

N	\$ 2,500.00	68.00%	\$ 800.00	Added 5/15/2023
N	\$ 5,500.00	68.00%	\$ 1,760.00	
N	\$ 420.00	68.00%	\$ 134.40	Added 5/15/2023
N	\$ 1,920.00	68.00%	\$ 614.40	
N	\$ 3,420.00	68.00%	\$ 1,094.40	
N	\$ 4,920.00	68.00%	\$ 1,574.40	
N	\$ 1,500.00	68.00%	\$ 480.00	
N	\$ 3,000.00	68.00%	\$ 960.00	
N	\$ 4,500.00	68.00%	\$ 1,440.00	
N	\$ 1,500.00	68.00%	\$ 480.00	
N	\$ 3,000.00	68.00%	\$ 960.00	
N	\$ 1,500.00	68.00%	\$ 480.00	
N	\$ 4,170.00	68.00%	\$ 1,334.40	
N	\$ 3,750.00	68.00%	\$ 1,200.00	
N	\$ 2,250.00	68.00%	\$ 720.00	
N	\$ 750.00	68.00%	\$ 240.00	
N	\$ 6,420.00	68.00%	\$ 2,054.40	
N	\$ 6,000.00	68.00%	\$ 1,920.00	
N	\$ 4,500.00	68.00%	\$ 1,440.00	
N	\$ 3,000.00	68.00%	\$ 960.00	
N	\$ 2,250.00	68.00%	\$ 720.00	
N	\$ 1,500.00	68.00%	\$ 480.00	
N	\$ 6,920.00	68.00%	\$ 2,214.40	
N	\$ 6,500.00	68.00%	\$ 2,080.00	
N	\$ 5,000.00	68.00%	\$ 1,600.00	
N	\$ 3,500.00	68.00%	\$ 1,120.00	
N	\$ 2,750.00	68.00%	\$ 880.00	
N	\$ 2,000.00	68.00%	\$ 640.00	
N	\$ 500.00	68.00%	\$ 160.00	
N	\$ 90.00	68.00%	\$ 28.80	
N	\$ 90.00	68.00%	\$ 28.80	
N	\$ 90.00	68.00%	\$ 28.80	
N	\$ 90.00	68.00%	\$ 28.80	
N	\$ 90.00	68.00%	\$ 28.80	
N	\$ 90.00	68.00%	\$ 28.80	
N	\$ 90.00	68.00%	\$ 28.80	
N	\$ 90.00	68.00%	\$ 28.80	
N	\$ 90.00	68.00%	\$ 28.80	
N	\$ 90.00	68.00%	\$ 28.80	
N	\$ 90.00	68.00%	\$ 28.80	
N	\$ 90.00	68.00%	\$ 28.80	
N	\$ 90.00	68.00%	\$ 28.80	
Y	\$ 225.00	68.00%	\$ 72.00	
Y	\$ 225.00	68.00%	\$ 72.00	
Y	\$ 125.00	68.00%	\$ 40.00	
Y	\$ 148.50	68.00%	\$ 47.52	
N	\$ 200.00	68.00%	\$ 64.00	
N	\$ 210.00	68.00%	\$ 67.20	
N	\$ 215.00	68.00%	\$ 68.80	

N	\$ 220.00	68.00%	\$ 70.40	
N	\$ 225.00	68.00%	\$ 72.00	
Y	\$ 70.00	68.00%	\$ 22.40	
Y	\$ 225.00	68.00%	\$ 72.00	
Y	\$ 140.00	68.00%	\$ 44.80	Changed 5/15/2023
Y	\$ 100.00	68.00%	\$ 32.00	
Y	\$ 55.00	68.00%	\$ 17.60	
Y	\$ 225.00	68.00%	\$ 72.00	
Y	\$ 225.00	68.00%	\$ 72.00	
Y	\$ 638.00	68.00%	\$ 204.16	
Y	\$ 1,450.00	68.00%	\$ 464.00	
Y	\$ 2,250.00	68.00%	\$ 720.00	
Y	\$ 250.00	68.00%	\$ 80.00	Changed 5/15/2023
Y	\$ 325.00	68.00%	\$ 104.00	Changed 5/15/2023
Y	\$ 2,100.00	68.00%	\$ 672.00	Added 5/15/2023
Y	\$ 2,100.00	68.00%	\$ 672.00	Added 5/15/2023
Y	\$ 1,050.00	68.00%	\$ 336.00	Added 5/15/2023
Y	\$ 1,050.00	68.00%	\$ 336.00	Added 5/15/2023
Y	\$ 500.00	68.00%	\$ 160.00	
Y	\$ 500.00	68.00%	\$ 160.00	
Y	\$ 500.00	68.00%	\$ 160.00	
Y	\$ 500.00	68.00%	\$ 160.00	
Y	\$ 500.00	68.00%	\$ 160.00	
Y	\$ 500.00	68.00%	\$ 160.00	
Y	\$ 500.00	68.00%	\$ 160.00	
Y	\$ 500.00	68.00%	\$ 160.00	
N	\$ 825.00	34.00%	\$ 544.50	Changed 4/5/2022
N	\$ 647.00	34.00%	\$ 427.02	
N	\$ 133.07	34.00%	\$ 87.83	
N	\$ 268.00	34.00%	\$ 176.88	
N	\$ 268.00	34.00%	\$ 176.88	
N	\$ 482.00	34.00%	\$ 318.12	
N	\$ 482.00	34.00%	\$ 318.12	
N	\$ 200.00	34.00%	\$ 132.00	Changed 4/5/2022
N	\$ 303.00	34.00%	\$ 199.98	
N	\$ 385.00	34.00%	\$ 254.10	
N	\$ 1,350.00	34.00%	\$ 891.00	
N	\$ 37.00	34.00%	\$ 24.42	
N	\$ 181.00	34.00%	\$ 119.46	
N	\$ 85.00	34.00%	\$ 56.10	
N	\$ 109.00	34.00%	\$ 71.94	
N	\$ 65.00	34.00%	\$ 42.90	
N	\$ 15.00	34.00%	\$ 9.90	
N	\$ 75.00	34.00%	\$ 49.50	
N	\$ 17.00	34.00%	\$ 11.22	
N	\$ 100.00	34.00%	\$ 66.00	
N	\$ 40.00	34.00%	\$ 26.40	
N	\$ 70.00	34.00%	\$ 46.20	

N	\$ 33.00	34.00%	\$ 21.78
N	\$ 30.00	34.00%	\$ 19.80
N	\$ 35.00	34.00%	\$ 23.10
N	\$ 40.00	34.00%	\$ 26.40
N	\$ 45.00	34.00%	\$ 29.70
N	\$ 50.00	34.00%	\$ 33.00
N	\$ 55.00	34.00%	\$ 36.30
N	\$ 60.00	34.00%	\$ 39.60
N	\$ 90.00	34.00%	\$ 59.40
N	\$ 120.00	34.00%	\$ 79.20
N	\$ 150.00	34.00%	\$ 99.00
N	\$ 400.00	34.00%	\$ 264.00
N	\$ 350.00	34.00%	\$ 231.00
N	\$ 200.00	34.00%	\$ 132.00
N	\$ 200.00	34.00%	\$ 132.00
N	\$ 200.00	34.00%	\$ 132.00
N	\$ 200.00	34.00%	\$ 132.00
N	\$ 200.00	34.00%	\$ 132.00
N	\$ 200.00	34.00%	\$ 132.00
N	\$ 200.00	34.00%	\$ 132.00
N	\$ 253.00	34.00%	\$ 166.98
N	\$ 200.00	34.00%	\$ 132.00
N	\$ 200.00	34.00%	\$ 132.00
N	\$ 200.00	34.00%	\$ 132.00
N	\$ 200.00	34.00%	\$ 132.00
N	\$ 200.00	34.00%	\$ 132.00
N	\$ 200.00	34.00%	\$ 132.00
N	\$ 200.00	34.00%	\$ 132.00
N	\$ 200.00	34.00%	\$ 132.00
N	\$ 200.00	34.00%	\$ 132.00
N	\$ 200.00	34.00%	\$ 132.00
N	\$ 200.00	34.00%	\$ 132.00
N	\$ 1,192.42	34.00%	787.00
N	\$ 1.95	34.00%	\$ 1.29
N	\$ 1.89	34.00%	\$ 1.25
N	\$ 0.33	34.00%	\$ 0.22
N	\$ 0.15	34.00%	\$ 0.10
N	\$ 0.65	34.00%	\$ 0.43
N	\$ 0.22	34.00%	\$ 0.15
N	\$ 78.03	34.00%	51.50
N	\$ 5,558.00	34.00%	\$ 3,668.28

Changed 5/15/2023

Changed 5/15/2023

N	\$ 2,420.00	68.00%	\$ 774.40
N	\$ 2,475.00	68.00%	\$ 792.00
Y	\$ 12,000.00	68.00%	\$ 3,840.00
Y	\$ 15,000.00	68.00%	\$ 4,800.00
Y	\$ 16,500.00	68.00%	\$ 5,280.00
Y	\$ 19,500.00	68.00%	\$ 6,240.00
Y	\$ 21,000.00	68.00%	\$ 6,720.00
Y	\$ 24,000.00	68.00%	\$ 7,680.00
Y	\$ 21,000.00	68.00%	\$ 6,720.00
Y	\$ 24,000.00	68.00%	\$ 7,680.00
Y	\$ 12,000.00	68.00%	\$ 3,840.00
Y	\$ 15,000.00	68.00%	\$ 4,800.00
Y	\$ 16,500.00	68.00%	\$ 5,280.00
Y	\$ 19,500.00	68.00%	\$ 6,240.00
Y	\$ 21,000.00	68.00%	\$ 6,720.00
Y	\$ 24,000.00	68.00%	\$ 7,680.00
Y	\$ 21,000.00	68.00%	\$ 6,720.00
Y	\$ 24,000.00	68.00%	\$ 7,680.00
Y	\$ 13,000.00	68.00%	\$ 4,160.00
Y	\$ 16,000.00	68.00%	\$ 5,120.00
Y	\$ 13,000.00	68.00%	\$ 4,160.00
Y	\$ 16,000.00	68.00%	\$ 5,120.00
Y	\$ 17,500.00	68.00%	\$ 5,600.00
Y	\$ 20,500.00	68.00%	\$ 6,560.00
Y	\$ 22,000.00	68.00%	\$ 7,040.00
Y	\$ 15,000.00	68.00%	\$ 4,800.00
N	\$ 55.00	68.00%	\$ 17.60
N	\$ 150.00	34.00%	\$ 99.00
N	\$ 220.00	34.00%	\$ 145.20
N	\$ 300.00	34.00%	\$ 198.00
N	\$ 75.00	34.00%	\$ 49.50
N	\$ 100.00	34.00%	\$ 66.00
Y	\$ 2,000.00	34.00%	\$ 1,320.00

Changed 5/15/2023

Changed 5/15/2023

Changed 5/15/2023

N	\$ 1,525.00	68.00%	\$ 488.00
N	\$ 1,525.00	68.00%	\$ 488.00
N	\$ 415.00	68.00%	\$ 132.80
N	\$ 451.00	68.00%	\$ 144.32
N	\$ 825.00	68.00%	\$ 264.00
N	\$ 500.00	68.00%	\$ 160.00
N	\$ 2,890.00	68.00%	\$ 924.80
N	\$ 7,200.00	68.00%	\$ 2,304.00
N	\$ 5,800.00	68.00%	\$ 1,856.00
N	\$ 10,100.00	68.00%	\$ 3,232.00
N	\$ 10,750.00	68.00%	\$ 3,440.00

Changed 5/15/2023

Changed 5/15/2023

Changed 5/15/2023

Changed 5/15/2023

N	\$ 760.00	68.00%	\$ 243.20
N	\$ 650.00	68.00%	\$ 208.00
N	\$ 475.00	68.00%	\$ 152.00
N	\$ 1,275.00	68.00%	\$ 408.00
N	\$ 1,300.00	68.00%	\$ 416.00
N	\$ 650.00	68.00%	\$ 208.00
N	\$ 950.00	68.00%	\$ 304.00

Changed 4/5/2022

N	\$ 3,200.00	68.00%	\$ 1,024.00
N	\$ 1,650.00	68.00%	\$ 528.00
N	\$ 750.00	68.00%	\$ 240.00
N	\$ 7,500.00	68.00%	\$ 2,400.00
N	\$ 1,225.00	68.00%	\$ 392.00
N	\$ 750.00	68.00%	\$ 240.00
N	\$ 3,515.00	68.00%	\$ 1,124.80

N	\$ 825.00	68.00%	\$ 264.00
N	\$ 710.00	68.00%	\$ 227.20
N	\$ 508.00	68.00%	\$ 162.56
N	\$ 1,350.00	68.00%	\$ 432.00
N	\$ 1,425.00	68.00%	\$ 456.00
N	\$ 715.00	68.00%	\$ 228.80

N	\$ 2,575.00	68.00%	\$ 824.00
N	\$ 680.00	68.00%	\$ 217.60
N	\$ 505.00	68.00%	\$ 161.60
N	\$ 1,010.00	68.00%	\$ 323.20

Changed 5/15/2023

Changed 5/15/2023

Changed 5/15/2023

N	\$ 1,050.00	68.00%	\$ 336.00
N	\$ 700.00	68.00%	\$ 224.00
N	\$ 1,600.00	68.00%	\$ 512.00
N	\$ 1,045.00	68.00%	\$ 334.40

N	\$ 860.00	68.00%	\$ 275.20
N	\$ 750.00	68.00%	\$ 240.00
N	\$ 565.00	68.00%	\$ 180.80
N	\$ 1,125.00	68.00%	\$ 360.00
N	\$ 1,500.00	68.00%	\$ 480.00
N	\$ 755.00	68.00%	\$ 241.60
N	\$ 1,125.00	68.00%	\$ 360.00

Changed 5/15/2023

Changed 5/15/2023

Changed 5/15/2023

Changed 5/15/2023

Changed 5/15/2023

N	\$ 1,300.00	68.00%	\$ 416.00
N	\$ 1,300.00	68.00%	\$ 416.00
N	\$ 1,950.00	68.00%	\$ 624.00

N	\$ 2,150.00	68.00%	\$ 688.00	
N	\$ 2,150.00	68.00%	\$ 688.00	Changed 4/5/2022
N	\$ 1,500.00	68.00%	\$ 480.00	Changed 4/5/2022
N	\$ 2,500.00	68.00%	\$ 800.00	Changed 5/15/2023
N	\$ 2,500.00	68.00%	\$ 800.00	Changed 5/15/2023
N	\$ 1,225.00	68.00%	\$ 392.00	Changed 5/15/2023
N	\$ 1,300.00	68.00%	\$ 416.00	Changed 5/15/2023
N	\$ 4,550.00	68.00%	\$ 1,456.00	Changed 5/15/2023
N	\$ 4,550.00	68.00%	\$ 1,456.00	
N	\$ 1,825.00	68.00%	\$ 584.00	
N	\$ 1,500.00	68.00%	\$ 480.00	
				Changed 5/15/2023
				Changed 5/15/2023
N	\$ 2,125.00	68.00%	\$ 680.00	Changed 5/15/2023
N	\$ 2,125.00	68.00%	\$ 680.00	Changed 5/15/2023
N	\$ 2,125.00	68.00%	\$ 680.00	Changed 5/15/2023
N	\$ 2,125.00	68.00%	\$ 680.00	Changed 5/15/2023
N	\$ 3,450.00	68.00%	\$ 1,104.00	Changed 5/15/2023
N	\$ 3,200.00	68.00%	\$ 1,024.00	
N	\$ 1,575.00	68.00%	\$ 504.00	
N	\$ 2,000.00	68.00%	\$ 640.00	
N	\$ 1,500.00	68.00%	\$ 480.00	Changed 5/15/2023
N	\$ 1,500.00	68.00%	\$ 480.00	Changed 5/15/2023
N	\$ 1,800.00	68.00%	\$ 576.00	
N	\$ 1,800.00	68.00%	\$ 576.00	Changed 5/15/2023
N	\$ 1,300.00	68.00%	\$ 416.00	Changed 5/15/2023
N	\$ 4,650.00	68.00%	\$ 1,488.00	Changed 5/15/2023
N	\$ 4,650.00	68.00%	\$ 1,488.00	
N	\$ 1,850.00	68.00%	\$ 592.00	
N	\$ 1,000.00	68.00%	\$ 320.00	
N	\$ 2,900.00	68.00%	\$ 928.00	Changed 5/15/2023
N	\$ 2,900.00	68.00%	\$ 928.00	Changed 5/15/2023
N	\$ 2,100.00	68.00%	\$ 672.00	
N	\$ 2,300.00	68.00%	\$ 736.00	
N	\$ 585.00	68.00%	\$ 187.20	
N	\$ 400.00	68.00%	\$ 128.00	
N	\$ 810.00	68.00%	\$ 259.20	
N	\$ 620.00	68.00%	\$ 198.40	
N	\$ 116.00	68.00%	\$ 37.12	
N	\$ 810.00	68.00%	\$ 259.20	
N	\$ 625.00	68.00%	\$ 200.00	
N	\$ 1,070.00	68.00%	\$ 342.40	
N	\$ 875.00	68.00%	\$ 280.00	
N	\$ 925.00	68.00%	\$ 296.00	
N	\$ 730.00	68.00%	\$ 233.60	
N	\$ 975.00	68.00%	\$ 312.00	
N	\$ 790.00	68.00%	\$ 252.80	
N	\$ 1,125.00	68.00%	\$ 360.00	
N	\$ 925.00	68.00%	\$ 296.00	Changed 5/15/2023
N	\$ 1,075.00	68.00%	\$ 344.00	
N	\$ 2,000.00	68.00%	\$ 640.00	
N	\$ 690.00	68.00%	\$ 220.80	

N	\$ 1,200.00	68.00%	\$ 384.00	
N	\$ 50.00	68.00%	\$ 16.00	
N	\$ 55.00	68.00%	\$ 17.60	
N	\$ 75.00	68.00%	\$ 24.00	
				Changed 5/15/2023
				Changed 5/15/2023
N	\$ 3,650.00	68.00%	\$ 1,168.00	Changed 5/15/2023
N	\$ 4,200.00	68.00%	\$ 1,344.00	Changed 5/15/2023
N	\$ 3,600.00	68.00%	\$ 1,152.00	
N	\$ 4,150.00	68.00%	\$ 1,328.00	
N	\$ 1,575.00	68.00%	\$ 504.00	
N	\$ 750.00	68.00%	\$ 240.00	
				Changed 5/15/2023
N	\$ 3,800.00	68.00%	\$ 1,216.00	Changed 5/15/2023
N	\$ 3,124.00	68.00%	\$ 999.68	
N	\$ 3,800.00	68.00%	\$ 1,216.00	
N	\$ 3,084.00	68.00%	\$ 986.88	
N	\$ 1,600.00	68.00%	\$ 512.00	
N	\$ 780.00	68.00%	\$ 249.60	
				Changed 5/15/2023
				Changed 5/15/2023
N	\$ 3,450.00	68.00%	\$ 1,104.00	
N	\$ 3,600.00	68.00%	\$ 1,152.00	
N	\$ 1,450.00	68.00%	\$ 464.00	Changed 5/15/2023
N	\$ 1,550.00	68.00%	\$ 496.00	
N	\$ 3,500.00	68.00%	\$ 1,120.00	
N	\$ 2,597.00	68.00%	\$ 831.04	
N	\$ 600.00	68.00%	\$ 192.00	Changed 5/15/2023
N	\$ 165.00	68.00%	\$ 52.80	
N	\$ 170.00	68.00%	\$ 54.40	
N	\$ 165.00	68.00%	\$ 52.80	Changed 4/5/2022
N	\$ 7,025.00	68.00%	\$ 2,248.00	
N	\$ 6,200.00	68.00%	\$ 1,984.00	
N	\$ 7,750.00	68.00%	\$ 2,480.00	
N	\$ 6,680.00	68.00%	\$ 2,137.60	Changed 5/15/2023
N	\$ 7,250.00	68.00%	\$ 2,320.00	
N	\$ 7,200.00	68.00%	\$ 2,304.00	Changed 5/15/2023
N	\$ 7,975.00	68.00%	\$ 2,552.00	Changed 4/5/2022
N	\$ 10,000.00	68.00%	\$ 3,200.00	Changed 5/15/2023
N	\$ 7,000.00	68.00%	\$ 2,240.00	
N	\$ 6,500.00	68.00%	\$ 2,080.00	
N	\$ 1,650.00	68.00%	\$ 528.00	
N	\$ 1,725.00	68.00%	\$ 552.00	
N	\$ 875.00	68.00%	\$ 280.00	
N	\$ 2,950.00	68.00%	\$ 944.00	Changed 5/15/2023
N	\$ 2,900.00	68.00%	\$ 928.00	Changed 5/15/2023
N	\$ 3,800.00	68.00%	\$ 1,216.00	Changed 5/15/2023
N	\$ 3,800.00	68.00%	\$ 1,216.00	Changed 5/15/2023
N	\$ 3,500.00	68.00%	\$ 1,120.00	Changed 5/15/2023
N	\$ 3,500.00	68.00%	\$ 1,120.00	Changed 5/15/2023
N	\$ 3,800.00	68.00%	\$ 1,216.00	

N	\$ 3,800.00	68.00%	\$ 1,216.00
N	\$ 435.00	68.00%	\$ 139.20
N	\$ 875.00	68.00%	\$ 280.00
N	\$ 3,200.00	68.00%	\$ 1,024.00
N	\$ 3,500.00	68.00%	\$ 1,120.00
N	\$ 2,250.00	68.00%	\$ 720.00
N	\$ 2,200.00	68.00%	\$ 704.00
N	\$ 2,885.00	68.00%	\$ 923.20
N	\$ 1,100.00	68.00%	\$ 352.00
N	\$ 670.00	68.00%	\$ 214.40
N	\$ 155.00	68.00%	\$ 49.60
N	\$ 2,609.00	68.00%	\$ 834.88
N	\$ 3,436.00	68.00%	\$ 1,099.52
N	\$ 2,605.00	68.00%	\$ 833.60
N	\$ 3,392.00	68.00%	\$ 1,085.44
N	\$ 2,290.00	68.00%	\$ 732.80
N	\$ 875.00	68.00%	\$ 280.00
N	\$ 2,249.00	68.00%	\$ 719.68
N	\$ 2,794.00	68.00%	\$ 894.08
N	\$ 2,482.00	68.00%	\$ 794.24
N	\$ 950.00	68.00%	\$ 304.00
N	\$ 165.00	68.00%	\$ 52.80
N	\$ 170.00	68.00%	\$ 54.40
N	\$ 165.00	68.00%	\$ 52.80
N	\$ 5,450.00	68.00%	\$ 1,744.00
N	\$ 6,017.00	68.00%	\$ 1,925.44
N	\$ 7,250.00	68.00%	\$ 2,320.00
N	\$ 6,989.00	68.00%	\$ 2,236.48
N	\$ 6,150.00	68.00%	\$ 1,968.00
N	\$ 6,295.00	68.00%	\$ 2,014.40
N	\$ 7,850.00	68.00%	\$ 2,512.00
N	\$ 7,641.00	68.00%	\$ 2,445.12
N	\$ 5,500.00	68.00%	\$ 1,760.00
N	\$ 4,700.00	68.00%	\$ 1,504.00
N	\$ 1,825.00	68.00%	\$ 584.00
N	\$ 1,775.00	68.00%	\$ 568.00
N	\$ 1,425.00	68.00%	\$ 456.00
N	\$ 1,275.00	68.00%	\$ 408.00
N	\$ 2,145.00	68.00%	\$ 686.40
N	\$ 2,550.00	68.00%	\$ 816.00
N	\$ 3,000.00	68.00%	\$ 960.00
N	\$ 3,200.00	68.00%	\$ 1,024.00
N	\$ 1,975.00	68.00%	\$ 632.00
N	\$ 2,375.00	68.00%	\$ 760.00
N	\$ 2,850.00	68.00%	\$ 912.00
N	\$ 3,000.00	68.00%	\$ 960.00
N	\$ 635.00	68.00%	\$ 203.20
N	\$ 900.00	68.00%	\$ 288.00
N	\$ 2,250.00	68.00%	\$ 720.00
N	\$ 2,625.00	68.00%	\$ 840.00

Added 5/15/2023

Added 5/15/2023

Changed 5/15/2023

Add 4/5/2022

Add 4/5/2022

N	\$ 1,825.00	68.00%	\$ 584.00
N	\$ 2,025.00	68.00%	\$ 648.00
N	\$ 2,050.00	68.00%	\$ 656.00
N	\$ 900.00	68.00%	\$ 288.00
N	\$ 900.00	68.00%	\$ 288.00
N	\$ 1,100.00	68.00%	\$ 352.00
N	\$ 1,150.00	68.00%	\$ 368.00
N	\$ 1,200.00	68.00%	\$ 384.00
N	\$ 1,650.00	68.00%	\$ 528.00
N	\$ 750.00	68.00%	\$ 240.00
N	\$ 750.00	68.00%	\$ 240.00
N	\$ 120.00	68.00%	\$ 38.40
N	\$ 950.00	68.00%	\$ 304.00
N	\$ 950.00	68.00%	\$ 304.00
N	\$ 1,700.00	68.00%	\$ 544.00
N	\$ 1,250.00	68.00%	\$ 400.00
N	\$ 1,250.00	68.00%	\$ 400.00
N	\$ 1,220.00	68.00%	\$ 390.40
N	\$ 1,550.00	68.00%	\$ 496.00
N	\$ 1,550.00	68.00%	\$ 496.00
N	\$ 1,550.00	68.00%	\$ 496.00
N	\$ 1,550.00	68.00%	\$ 496.00
N	\$ 1,550.00	68.00%	\$ 496.00
N	\$ 1,550.00	68.00%	\$ 496.00
N	\$ 1,145.00	68.00%	\$ 366.40
N	\$ 1,150.00	68.00%	\$ 368.00
N	\$ 450.00	68.00%	\$ 144.00
N	\$ 200.00	68.00%	\$ 64.00
N	\$ 235.00	68.00%	\$ 75.20
N	\$ 235.00	68.00%	\$ 75.20
N	\$ 200.00	68.00%	\$ 64.00
N	\$ 1,345.00	68.00%	\$ 430.40
N	\$ 500.00	68.00%	\$ 160.00
N	\$ 285.00	68.00%	\$ 91.20
N	\$ 350.00	68.00%	\$ 112.00
N	\$ 345.00	68.00%	\$ 110.40
N	\$ 290.00	68.00%	\$ 92.80
N	\$ 2,500.00	68.00%	\$ 800.00
N	\$ 461.00	68.00%	\$ 147.52
N	\$ 449.00	68.00%	\$ 143.68
N	\$ 224.00	68.00%	\$ 71.68
N	\$ 720.00	68.00%	\$ 230.40
N	\$ 360.00	68.00%	\$ 115.20
N	\$ 775.00	68.00%	\$ 248.00

Changed 5/15/2023

N	\$ 479.00	68.00%	\$ 153.28
N	\$ 466.00	68.00%	\$ 149.12
N	\$ 233.00	68.00%	\$ 74.56
N	\$ 925.00	68.00%	\$ 296.00
N	\$ 800.00	68.00%	\$ 256.00
N	\$ 400.00	68.00%	\$ 128.00
N	\$ 895.00	68.00%	\$ 286.40
N	\$ 526.00	68.00%	\$ 168.32
N	\$ 512.00	68.00%	\$ 163.84
N	\$ 256.00	68.00%	\$ 81.92
N	\$ 960.00	68.00%	\$ 307.20
N	\$ 740.00	68.00%	\$ 236.80
N	\$ 370.00	68.00%	\$ 118.40
N	\$ 925.00	68.00%	\$ 296.00
N	\$ 250.00	68.00%	\$ 80.00
N	\$ 250.00	68.00%	\$ 80.00
N	\$ 540.00	68.00%	\$ 172.80
N	\$ 1,835.00	68.00%	\$ 587.20
N	\$ 2,150.00	68.00%	\$ 688.00
N	\$ 385.00	68.00%	\$ 123.20
N	\$ 525.00	68.00%	\$ 168.00
N	\$ 400.00	68.00%	\$ 128.00
N	\$ 575.00	68.00%	\$ 184.00
N	\$ 1,175.00	68.00%	\$ 376.00
N	\$ 250.00	68.00%	\$ 80.00
N	\$ 200.00	68.00%	\$ 64.00
N	\$ 485.00	68.00%	\$ 155.20
N	\$ 103.00	68.00%	\$ 32.96
N	\$ 65.00	68.00%	\$ 20.80
N	\$ 112.00	68.00%	\$ 35.84
N	\$ 114.00	68.00%	\$ 36.48
N	\$ 125.00	68.00%	\$ 40.00
N	\$ 125.00	68.00%	\$ 40.00
N	\$ 135.00	68.00%	\$ 43.20
N	\$ 205.00	68.00%	\$ 65.60
N	\$ 228.00	68.00%	\$ 72.96
N	\$ 228.00	68.00%	\$ 72.96
N	\$ 925.00	68.00%	\$ 296.00
N	\$ 925.00	68.00%	\$ 296.00
N	\$ 715.00	68.00%	\$ 228.80
N	\$ 715.00	68.00%	\$ 228.80
N	\$ 520.00	68.00%	\$ 166.40
N	\$ 520.00	68.00%	\$ 166.40
N	\$ 750.00	68.00%	\$ 240.00

Changed 5/15/2023

N	\$ 750.00	68.00%	\$ 240.00
N	\$ 515.00	68.00%	\$ 164.80
N	\$ 515.00	68.00%	\$ 164.80
N	\$ 5.00	68.00%	\$ 1.60
N	\$ 55.00	68.00%	\$ 17.60
N	\$ 3,050.00	68.00%	\$ 976.00
N	\$ 3,850.00	68.00%	\$ 1,232.00
N	\$ 935.00	68.00%	\$ 299.20
N	\$ 815.00	68.00%	\$ 260.80
N	\$ 93.00	68.00%	\$ 29.76
N	\$ 95.00	68.00%	\$ 30.40
N	\$ 252.69	68.00%	\$ 80.86
N	\$ 225.00	68.00%	\$ 72.00
N	\$ 252.69	68.00%	\$ 80.86
N	\$ 275.00	68.00%	\$ 88.00
N	\$ 1,500.00	68.00%	\$ 480.00
N	\$ 750.00	68.00%	\$ 240.00
N	\$ 1,845.00	68.00%	\$ 590.40
N	\$ 335.00	68.00%	\$ 107.20
N	\$ 160.00	68.00%	\$ 51.20
N	\$ 160.00	68.00%	\$ 51.20
N	\$ 80.00	68.00%	\$ 25.60
N	\$ 80.00	68.00%	\$ 25.60
N	\$ 540.00	68.00%	\$ 172.80
N	\$ 415.00	68.00%	\$ 132.80
N	\$ 1,975.00	68.00%	\$ 632.00
N	\$ 1,825.00	68.00%	\$ 584.00
N	\$ 550.00	68.00%	\$ 176.00
N	\$ 945.00	68.00%	\$ 302.40
N	\$ 600.00	68.00%	\$ 192.00
N	\$ 915.00	68.00%	\$ 292.80
N	\$ 950.00	68.00%	\$ 304.00
N	\$ 475.00	68.00%	\$ 152.00
N	\$ 300.00	68.00%	\$ 96.00
N	\$ 315.00	68.00%	\$ 100.80
N	\$ 1,260.00	68.00%	\$ 403.20
N	\$ 1,260.00	68.00%	\$ 403.20
N	\$ 1,420.00	68.00%	\$ 454.40
N	\$ 1,420.00	68.00%	\$ 454.40
N	\$ 125.00	68.00%	\$ 40.00
N	\$ 190.00	68.00%	\$ 60.80
N	\$ 540.00	68.00%	\$ 172.80
N	\$ 165.00	68.00%	\$ 52.80
N	\$ 170.00	68.00%	\$ 54.40
N	\$ 140.00	68.00%	\$ 44.80
N	\$ 175.00	68.00%	\$ 56.00
N	\$ 175.00	68.00%	\$ 56.00
N	\$ 185.00	68.00%	\$ 59.20
N	\$ 275.00	68.00%	\$ 88.00
N	\$ 50.00	68.00%	\$ 16.00

Changed 5/15/2023

N	\$ 150.00	68.00%	\$ 48.00
N	\$ 188.00	68.00%	\$ 60.16
N	\$ 230.00	68.00%	\$ 73.60
N	\$ 100.00	68.00%	\$ 32.00
N	\$ 3,050.00	68.00%	\$ 976.00
N	\$ 3,000.00	68.00%	\$ 960.00
N	\$ 1,050.00	68.00%	\$ 336.00
N	\$ 1,400.00	68.00%	\$ 448.00
N	\$ 1,100.00	68.00%	\$ 352.00
N	\$ 53.00	68.00%	\$ 16.96
N	\$ 160.00	68.00%	\$ 51.20
N	\$ 160.00	68.00%	\$ 51.20
N	\$ 80.00	68.00%	\$ 25.60
N	\$ 80.00	68.00%	\$ 25.60
N	\$ 1,050.00	68.00%	\$ 336.00
N	\$ 160.00	68.00%	\$ 51.20
N	\$ 284.00	68.00%	\$ 90.88
N	\$ 1.15	34.00%	\$ 0.76
N	\$ 58.52	34.00%	\$ 38.62
N	\$ 125.00	34.00%	\$ 82.50
N	\$ 8.00	34.00%	\$ 5.28
N	\$ 34.36	34.00%	\$ 22.68
N	\$ 200.00	34.00%	\$ 132.00
N	\$ 232.00	68.00%	\$ 74.24
N	\$ 244.00	68.00%	\$ 78.08
N	\$ 418.00	68.00%	\$ 133.76
N	\$ 500.00	68.00%	\$ 160.00
N	\$ 745.00	68.00%	\$ 238.40
N	\$ 1,081.00	68.00%	\$ 345.92
N	\$ 1,408.00	68.00%	\$ 450.56
N	\$ 199.26	68.00%	\$ 63.76
N	\$ 325.00	68.00%	\$ 104.00
N	\$ 550.00	68.00%	\$ 176.00
N	\$ 1,000.00	68.00%	\$ 320.00
N	\$ 925.00	68.00%	\$ 296.00
N	\$ 90.00	68.00%	\$ 28.80
N	\$ 100.00	68.00%	\$ 32.00
N	\$ 113.00	68.00%	\$ 36.16
N	\$ 182.00	68.00%	\$ 58.24
N	\$ 15.00	34.00%	\$ 9.90

Changed 5/15/2023

[illegible]

[illegible]

N	\$ 2,000.00	68.00%	\$ 640.00
N	\$ 2,000.00	68.00%	\$ 640.00
Y	\$ 6,000.00	68.00%	\$ 1,920.00
Y	\$ 9,750.00	68.00%	\$ 3,120.00
N	\$ 1,200.00	68.00%	\$ 384.00
N	\$ 2,000.00	68.00%	\$ 640.00
N	\$ 2,000.00	68.00%	\$ 640.00
N	\$ 2,000.00	68.00%	\$ 640.00
N	\$ 6,000.00	68.00%	\$ 1,920.00
N	\$ 9,750.00	68.00%	\$ 3,120.00
N	\$ 1,200.00	68.00%	\$ 384.00
N	\$ 1,200.00	68.00%	\$ 384.00
N	\$ 1,200.00	68.00%	\$ 384.00
N	\$ 2,000.00	68.00%	\$ 640.00
N	\$ 2,000.00	68.00%	\$ 640.00
N	\$ 2,000.00	68.00%	\$ 640.00
N	\$ 2,000.00	68.00%	\$ 640.00
N	\$ 2,000.00	68.00%	\$ 640.00
N	\$ 2,000.00	68.00%	\$ 640.00
N	\$ 2,000.00	68.00%	\$ 640.00
N	\$ 2,000.00	68.00%	\$ 640.00
N	\$ 2,000.00	68.00%	\$ 640.00
N	\$ 2,000.00	68.00%	\$ 640.00
N	\$ 2,000.00	68.00%	\$ 640.00
N	\$ 2,000.00	68.00%	\$ 640.00
Y	\$ 6,000.00	68.00%	\$ 1,920.00
Y	\$ 9,750.00	68.00%	\$ 3,120.00
N	\$ 1,200.00	68.00%	\$ 384.00
N	\$ 2,000.00	68.00%	\$ 640.00
N	\$ 2,000.00	68.00%	\$ 640.00
N	\$ 2,000.00	68.00%	\$ 640.00
N	\$ 5,500.00	68.00%	\$ 1,760.00
N	\$ 5,500.00	68.00%	\$ 1,760.00
N	\$ 5,500.00	68.00%	\$ 1,760.00
N	\$ 5,500.00	68.00%	\$ 1,760.00
N	\$ 5,500.00	68.00%	\$ 1,760.00
N	\$ 5,500.00	68.00%	\$ 1,760.00
N	\$ 5,500.00	68.00%	\$ 1,760.00
N	\$ 5,500.00	68.00%	\$ 1,760.00
Y	\$ 6,000.00	68.00%	\$ 1,920.00
Y	\$ 9,750.00	68.00%	\$ 3,120.00
N	\$ 1,200.00	68.00%	\$ 384.00
N	\$ 1,200.00	68.00%	\$ 384.00

Added 5/15/2023
Added 5/15/2023
Added 5/15/2023
Added 5/15/2023
Added 5/15/2023
Added 5/15/2023
Added 5/15/2023

N	\$ 1,200.00	68.00%	\$ 384.00
N	\$ 1,200.00	68.00%	\$ 384.00
N	\$ 2,000.00	68.00%	\$ 640.00
N	\$ 2,000.00	68.00%	\$ 640.00
N	\$ 2,000.00	68.00%	\$ 640.00
N	\$ 2,000.00	68.00%	\$ 640.00
N	\$ 2,000.00	68.00%	\$ 640.00
N	\$ 2,000.00	68.00%	\$ 640.00
N	\$ 2,000.00	68.00%	\$ 640.00
N	\$ 2,000.00	68.00%	\$ 640.00
N	\$ 2,000.00	68.00%	\$ 640.00
N	\$ 2,000.00	68.00%	\$ 640.00
N	\$ 2,000.00	68.00%	\$ 640.00
N	\$ 2,000.00	68.00%	\$ 640.00
N	\$ 2,000.00	68.00%	\$ 640.00
N	\$ 2,000.00	68.00%	\$ 640.00
N	\$ 2,000.00	68.00%	\$ 640.00
N	\$ 2,000.00	68.00%	\$ 640.00
N	\$ 2,000.00	68.00%	\$ 640.00
N	\$ 2,000.00	68.00%	\$ 640.00
N	\$ 2,000.00	68.00%	\$ 640.00
Y	\$ 6,000.00	68.00%	\$ 1,920.00
Y	\$ 9,750.00	68.00%	\$ 3,120.00
N	\$ 1,200.00	68.00%	\$ 384.00
N	\$ 1,200.00	68.00%	\$ 384.00
N	\$ 1,200.00	68.00%	\$ 384.00
N	\$ 1,200.00	68.00%	\$ 384.00
N	\$ 2,000.00	68.00%	\$ 640.00
N	\$ 2,000.00	68.00%	\$ 640.00
N	\$ 2,000.00	68.00%	\$ 640.00
N	\$ 2,000.00	68.00%	\$ 640.00
N	\$ 2,000.00	68.00%	\$ 640.00
N	\$ 2,000.00	68.00%	\$ 640.00
N	\$ 2,000.00	68.00%	\$ 640.00
N	\$ 2,000.00	68.00%	\$ 640.00
N	\$ 2,000.00	68.00%	\$ 640.00
N	\$ 2,000.00	68.00%	\$ 640.00
N	\$ 2,000.00	68.00%	\$ 640.00
N	\$ 2,000.00	68.00%	\$ 640.00
Y	\$ 10,500.00	68.00%	\$ 3,360.00
Y	\$ 10,500.00	68.00%	\$ 3,360.00
Y	\$ 11,500.00	68.00%	\$ 3,680.00
Y	\$ 11,500.00	68.00%	\$ 3,680.00
Y	\$ 11,000.00	68.00%	\$ 3,520.00
Y	\$ 11,000.00	68.00%	\$ 3,520.00
Y	\$ 10,500.00	68.00%	\$ 3,360.00
Y	\$ 10,500.00	68.00%	\$ 3,360.00

Added 5/15/2023

Added 5/15/2023

Added 5/15/2023

Added 5/15/2023

[illegible]

N	\$ 1,984.00	68.00%	\$ 634.88
N	\$ 1,000.00	68.00%	\$ 320.00
N	\$ 1,000.00	68.00%	\$ 320.00
N	\$ 1,000.00	68.00%	\$ 320.00
N	\$ 1,000.00	68.00%	\$ 320.00
N	\$ 1,000.00	68.00%	\$ 320.00
N	\$ 1,000.00	68.00%	\$ 320.00
N	\$ 1,000.00	68.00%	\$ 320.00
N	\$ 1,000.00	68.00%	\$ 320.00
N	\$ 1,000.00	68.00%	\$ 320.00
N	\$ 1,000.00	68.00%	\$ 320.00
N	\$ 1,250.00	68.00%	\$ 400.00
N	\$ 5,850.00	68.00%	\$ 1,872.00
N	\$ 5,850.00	68.00%	\$ 1,872.00
N	\$ 5,850.00	68.00%	\$ 1,872.00
N	\$ 5,850.00	68.00%	\$ 1,872.00
N	\$ 5,850.00	68.00%	\$ 1,872.00
N	\$ 5,850.00	68.00%	\$ 1,872.00
N	\$ 5,850.00	68.00%	\$ 1,872.00
N	\$ 5,850.00	68.00%	\$ 1,872.00
N	\$ 5,850.00	68.00%	\$ 1,872.00
N	\$ 5,850.00	68.00%	\$ 1,872.00
N	\$ 180.00	68.00%	\$ 57.60
N	\$ 175.00	68.00%	\$ 56.00
N	\$ 375.00	68.00%	\$ 120.00
N	\$ 329.00	68.00%	\$ 105.28
N	\$ 285.00	68.00%	\$ 91.20
N	\$ 755.00	68.00%	\$ 241.60
N	\$ 850.00	68.00%	\$ 272.00
N	\$ 329.00	68.00%	\$ 105.28
N	\$ 300.00	68.00%	\$ 96.00
N	\$ 31.00	68.00%	\$ 9.92
N	\$ 3,038.00	68.00%	\$ 972.16
N	\$ 375.00	68.00%	\$ 120.00
N	\$ 2,000.00	68.00%	\$ 640.00
N	\$ 2,100.00	68.00%	\$ 672.00
N	\$ 2,100.00	68.00%	\$ 672.00
N	\$ 650.00	68.00%	\$ 208.00
N	\$ 650.00	68.00%	\$ 208.00
N	\$ 650.00	68.00%	\$ 208.00
N	\$ 2,800.00	68.00%	\$ 896.00
N	\$ 2,000.00	68.00%	\$ 640.00
N	\$ 815.00	68.00%	\$ 260.80
N	\$ 640.00	68.00%	\$ 204.80
N	\$ 525.00	68.00%	\$ 168.00
N	\$ 800.00	68.00%	\$ 256.00

Add 4/5/2022

Added 5/15/2023

Added 5/15/2023

Added 5/15/2023

Added 5/15/2023

Added 5/15/2023

Added 5/15/2023

1. *Journal of the American Medical Association*, 2000; 284: 1039-1044.

Added 5/15/2023

Added 5/15/2023

Added 5/15/2023

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Added 5/15/2023
A 11 15/15/2023

Added 5/15/2023

Added 5/15/2023

[illegible]

N	\$ 2,500.00	68.00%	\$ 800.00
N	\$ 190.00	34.00%	\$ 125.40
N	\$ 64.00	34.00%	\$ 42.24
N	\$ 59.00	34.00%	\$ 38.94
N	\$ 35.00	34.00%	\$ 23.10
N	\$ 320.00	34.00%	\$ 211.20
N	\$ 720.00	34.00%	\$ 475.20
N	\$ 250.00	34.00%	\$ 165.00
N	\$ 69.30	34.00%	\$ 45.74
N	\$ 442.00	34.00%	\$ 291.72
N	\$ 113.00	34.00%	\$ 74.58
N	\$ 113.00	34.00%	\$ 74.58
N	\$ 53.00	34.00%	\$ 34.98
N	\$ 286.00	34.00%	\$ 188.76
N	\$ 455.00	34.00%	\$ 300.30
N	\$ 86.00	34.00%	\$ 56.76
N	\$ 3.00	34.00%	\$ 1.98
N	\$ 92.00	34.00%	\$ 60.72
N	\$ 36.00	34.00%	\$ 23.76
N	\$ 36.00	34.00%	\$ 23.76
N	\$ 45.00	34.00%	\$ 29.70
N	\$ 125.00	34.00%	\$ 82.50
N	\$ 6.00	34.00%	\$ 3.96
N	\$ 92.00	34.00%	\$ 60.72
N	\$ 45.00	34.00%	\$ 29.70
N	\$ 45.00	34.00%	\$ 29.70
N	\$ 50.00	34.00%	\$ 33.00
N	\$ 20.00	34.00%	\$ 13.20
N	\$ 45.00	34.00%	\$ 29.70
N	\$ 50.00	34.00%	\$ 33.00
N	\$ 1,780.00	68.00%	\$ 569.60
N	\$ 275.00	68.00%	\$ 88.00
N	\$ 1,400.00	34.00%	\$ 924.00
N	\$ 9.00	34.00%	\$ 5.94
N	\$ 700.00	34.00%	\$ 462.00
N	\$ 50.00	34.00%	\$ 33.00
N	\$ 400.00	34.00%	\$ 264.00
N	\$ 400.00	34.00%	\$ 264.00
N	\$ 400.00	34.00%	\$ 264.00
Y	\$ 638.00	34.00%	\$ 421.08

Added 5/15/2023

Changed 5/15/2023

Added 5/15/2023

Added 5/15/2023

Added 5/15/2023

Y	\$ 1,450.00	34.00%	\$ 957.00	Added 5/15/2023
Y	\$ 2,250.00	34.00%	\$ 1,485.00	Added 5/15/2023
Y	\$ 638.00	34.00%	\$ 421.08	
Y	\$ 1,450.00	34.00%	\$ 957.00	
Y	\$ 150.00	34.00%	\$ 99.00	
Y	\$ 225.00	34.00%	\$ 148.50	
Y	\$ 70.00	34.00%	\$ 46.20	
Y	\$ 225.00	34.00%	\$ 148.50	
				Added 5/15/2023
				Added 5/15/2023
N	\$ 210.00	34.00%	\$ 138.60	Added 5/15/2023
N	\$ 8.00	34.00%	\$ 5.28	Added 5/15/2023
N	\$ 425.00	34.00%	\$ 280.50	
N	\$ 1,200.00	34.00%	\$ 792.00	
N	\$ 197.00	34.00%	\$ 130.02	
N	\$ 203.00	34.00%	\$ 133.98	
N	\$ 222.00	34.00%	\$ 146.52	
N	\$ 348.00	34.00%	\$ 229.68	
N	\$ 443.00	34.00%	\$ 292.38	
N	\$ 570.00	34.00%	\$ 376.20	
N	\$ 633.00	34.00%	\$ 417.78	
N	\$ 664.00	34.00%	\$ 438.24	
N	\$ 759.00	34.00%	\$ 500.94	
N	\$ 949.00	34.00%	\$ 626.34	
N	\$ 1,044.00	34.00%	\$ 689.04	
N	\$ 1,076.00	34.00%	\$ 710.16	
N	\$ 1,202.00	34.00%	\$ 793.32	
N	\$ 1,392.00	34.00%	\$ 918.72	
N	\$ 114.00	34.00%	\$ 75.24	
N	\$ 150.00	34.00%	\$ 99.00	
N	\$ 200.00	34.00%	\$ 132.00	
N	\$ 360.00	34.00%	\$ 237.60	
N	\$ 495.00	34.00%	\$ 326.70	
N	\$ 614.00	34.00%	\$ 405.24	
N	\$ 677.00	34.00%	\$ 446.82	
N	\$ 728.00	34.00%	\$ 480.48	
N	\$ 823.00	34.00%	\$ 543.18	
N	\$ 1,012.00	34.00%	\$ 667.92	
N	\$ 1,107.00	34.00%	\$ 730.62	
N	\$ 1,265.00	34.00%	\$ 834.90	
N	\$ 1,455.00	34.00%	\$ 960.30	
N	\$ 105.00	34.00%	\$ 69.30	
N	\$ 110.00	34.00%	\$ 72.60	
N	\$ 114.00	34.00%	\$ 75.24	
N	\$ 150.00	34.00%	\$ 99.00	
N	\$ 155.00	34.00%	\$ 102.30	
N	\$ 161.00	34.00%	\$ 106.26	
N	\$ 240.00	34.00%	\$ 158.40	

N	\$ 9,049.85	34.00%	\$ 5,972.90
N	\$ 7,870.85	34.00%	\$ 5,194.76
N	\$ 6,691.85	34.00%	\$ 4,416.62
N	\$ 4,923.35	34.00%	\$ 3,249.41
N	\$ 3,449.60	34.00%	\$ 2,276.74
N	\$ 7,107.00	34.00%	\$ 4,690.62
N	\$ 5,305.95	34.00%	\$ 3,501.93
N	\$ 6,206.50	34.00%	\$ 4,096.29
N	\$ 3,955.20	34.00%	\$ 2,610.43
N	\$ 2,829.55	34.00%	\$ 1,867.50
N	\$ 644.98	34.00%	\$ 425.69
N	\$ 695.03	34.00%	\$ 458.72
N	\$ 475.02	34.00%	\$ 313.51
N	\$ 250.00	68.00%	\$ 80.00
N	\$ 3,000.00	68.00%	\$ 960.00
N	\$ 3,500.00	68.00%	\$ 1,120.00
N	\$ 4,000.00	68.00%	\$ 1,280.00
N	\$ 4,500.00	68.00%	\$ 1,440.00
N	\$ 5,000.00	68.00%	\$ 1,600.00
N	\$ 5,500.00	68.00%	\$ 1,760.00
N	\$ 6,000.00	68.00%	\$ 1,920.00
N	\$ 6,500.00	68.00%	\$ 2,080.00
N	\$ 4,500.00	68.00%	\$ 1,440.00
N	\$ 5,000.00	68.00%	\$ 1,600.00
N	\$ 5,500.00	68.00%	\$ 1,760.00
N	\$ 6,000.00	68.00%	\$ 1,920.00
N	\$ 6,500.00	68.00%	\$ 2,080.00
N	\$ 7,000.00	68.00%	\$ 2,240.00
N	\$ 7,500.00	68.00%	\$ 2,400.00
N	\$ 6,500.00	68.00%	\$ 2,080.00
N	\$ 7,000.00	68.00%	\$ 2,240.00
N	\$ 7,500.00	68.00%	\$ 2,400.00
N	\$ 8,000.00	68.00%	\$ 2,560.00
N	\$ 8,500.00	68.00%	\$ 2,720.00
N	\$ 9,000.00	68.00%	\$ 2,880.00
N	\$ 9,500.00	68.00%	\$ 3,040.00
N	\$ 10,000.00	68.00%	\$ 3,200.00
N	\$ 3,500.00	68.00%	\$ 1,120.00
N	\$ 1,200.00	68.00%	\$ 384.00
N	\$ 1,500.00	68.00%	\$ 480.00
N	\$ 1,500.00	68.00%	\$ 480.00
N	\$ 1,500.00	68.00%	\$ 480.00
N	\$ 1,000.00	68.00%	\$ 320.00
N	\$ 1,500.00	68.00%	\$ 480.00

N	\$ 1,000.00	68.00%	\$ 320.00
N	\$ 1,200.00	68.00%	\$ 384.00
N	\$ 1,200.00	68.00%	\$ 384.00
N	\$ 1,200.00	68.00%	\$ 384.00
N	\$ 1,000.00	68.00%	\$ 320.00
N	\$ 1,500.00	68.00%	\$ 480.00
N	\$ 2,500.00	68.00%	\$ 800.00
N	\$ 2,500.00	68.00%	\$ 800.00
N	\$ 2,500.00	68.00%	\$ 800.00
N	\$ 500.00	68.00%	\$ 160.00
N	\$ 500.00	68.00%	\$ 160.00
N	\$ 500.00	68.00%	\$ 160.00
N	\$ 500.00	68.00%	\$ 160.00
N	\$ 500.00	68.00%	\$ 160.00
N	\$ 500.00	68.00%	\$ 160.00
N	\$ 500.00	68.00%	\$ 160.00
N	\$ 500.00	68.00%	\$ 160.00
N	\$ 500.00	68.00%	\$ 160.00
N	\$ 500.00	68.00%	\$ 160.00
N	\$ 500.00	68.00%	\$ 160.00
N	\$ 500.00	68.00%	\$ 160.00
N	\$ 500.00	68.00%	\$ 160.00
N	\$ 500.00	68.00%	\$ 160.00
N	\$ 500.00	68.00%	\$ 160.00
N	\$ 500.00	68.00%	\$ 160.00
N	\$ 2,500.00	68.00%	\$ 800.00
N	\$ 2,500.00	68.00%	\$ 800.00
N	\$ 2,500.00	68.00%	\$ 800.00
N	\$ 2,500.00	68.00%	\$ 800.00
N	\$ 1,500.00	68.00%	\$ 480.00
N	\$ 1,500.00	68.00%	\$ 480.00
N	\$ 1,500.00	68.00%	\$ 480.00
N	\$ 1,500.00	68.00%	\$ 480.00

N	\$ 5,000.00	68.00%	\$ 1,600.00	Add 4/5/2022
N	\$ 5,000.00	68.00%	\$ 1,600.00	
N	\$ 5,000.00	68.00%	\$ 1,600.00	
				Added 5/15/2023
N	\$ 5,000.00	68.00%	\$ 1,600.00	
N	\$ 250.00	68.00%	\$ 80.00	
N	\$ 3,000.00	68.00%	\$ 960.00	
N	\$ 3,500.00	68.00%	\$ 1,120.00	
N	\$ 4,000.00	68.00%	\$ 1,280.00	
N	\$ 4,500.00	68.00%	\$ 1,440.00	
N	\$ 5,000.00	68.00%	\$ 1,600.00	
N	\$ 5,500.00	68.00%	\$ 1,760.00	
N	\$ 6,000.00	68.00%	\$ 1,920.00	
N	\$ 6,500.00	68.00%	\$ 2,080.00	
N	\$ 4,500.00	68.00%	\$ 1,440.00	
N	\$ 5,000.00	68.00%	\$ 1,600.00	
N	\$ 5,500.00	68.00%	\$ 1,760.00	
N	\$ 6,000.00	68.00%	\$ 1,920.00	
N	\$ 6,500.00	68.00%	\$ 2,080.00	
N	\$ 7,000.00	68.00%	\$ 2,240.00	
N	\$ 7,500.00	68.00%	\$ 2,400.00	
N	\$ 6,500.00	68.00%	\$ 2,080.00	
N	\$ 7,000.00	68.00%	\$ 2,240.00	
N	\$ 7,500.00	68.00%	\$ 2,400.00	
N	\$ 8,000.00	68.00%	\$ 2,560.00	
N	\$ 8,500.00	68.00%	\$ 2,720.00	
N	\$ 9,000.00	68.00%	\$ 2,880.00	
N	\$ 9,500.00	68.00%	\$ 3,040.00	
N	\$ 10,000.00	68.00%	\$ 3,200.00	
N	\$ 3,500.00	68.00%	\$ 1,120.00	
N	\$ 1,200.00	68.00%	\$ 384.00	
N	\$ 1,500.00	68.00%	\$ 480.00	
N	\$ 1,500.00	68.00%	\$ 480.00	
N	\$ 1,500.00	68.00%	\$ 480.00	
N	\$ 1,000.00	68.00%	\$ 320.00	
N	\$ 1,500.00	68.00%	\$ 480.00	
N	\$ 1,000.00	68.00%	\$ 320.00	
N	\$ 1,200.00	68.00%	\$ 384.00	
N	\$ 1,200.00	68.00%	\$ 384.00	
N	\$ 1,200.00	68.00%	\$ 384.00	
N	\$ 1,000.00	68.00%	\$ 320.00	

N	\$ 1,500.00	68.00%	\$ 480.00
N	\$ 5,000.00	68.00%	\$ 1,600.00
N	\$ 5,000.00	68.00%	\$ 1,600.00
N	\$ 5,000.00	68.00%	\$ 1,600.00
N	\$ 5,000.00	68.00%	\$ 1,600.00
N	\$ 2,500.00	68.00%	\$ 800.00
N	\$ 1,500.00	68.00%	\$ 480.00
N	\$ 1,500.00	68.00%	\$ 480.00
N	\$ 1,500.00	68.00%	\$ 480.00
N	\$ 1,500.00	68.00%	\$ 480.00
N	\$ 12,040.00	68.00%	\$ 3,852.80
N	\$ 11,600.00	68.00%	\$ 3,712.00
N	\$ 11,500.00	68.00%	\$ 3,680.00
N	\$ 9,000.00	68.00%	\$ 2,880.00
N	\$ 12,040.00	68.00%	\$ 3,852.80
N	\$ 11,600.00	68.00%	\$ 3,712.00
N	\$ 11,500.00	68.00%	\$ 3,680.00
N	\$ 9,000.00	68.00%	\$ 2,880.00
N	\$ 14,860.00	68.00%	\$ 4,755.20
N	\$ 15,080.00	68.00%	\$ 4,825.60
N	\$ 14,800.00	68.00%	\$ 4,736.00
N	\$ 950.00	68.00%	\$ 304.00
N	\$ 950.00	68.00%	\$ 304.00
N	\$ 775.00	68.00%	\$ 248.00
N	\$ 775.00	68.00%	\$ 248.00
N	\$ 750.00	68.00%	\$ 240.00
N	\$ 750.00	68.00%	\$ 240.00
N	\$ 525.00	68.00%	\$ 168.00
N	\$ 525.00	68.00%	\$ 168.00
N	\$ 525.00	68.00%	\$ 168.00
N	\$ 525.00	68.00%	\$ 168.00
N	\$ 2,500.00	68.00%	\$ 800.00
N	\$ 2,500.00	68.00%	\$ 800.00
N	\$ 2,500.00	68.00%	\$ 800.00
N	\$ 2,500.00	68.00%	\$ 800.00
N	\$ 2,500.00	68.00%	\$ 800.00
N	\$ 2,500.00	68.00%	\$ 800.00
N	\$ 2,500.00	68.00%	\$ 800.00

Added 5/15/2023

Added 5/15/2023

N	\$ 2,500.00	68.00%	\$ 800.00
N	\$ 759.00	68.00%	\$ 242.88
N	\$ 759.00	68.00%	\$ 242.88
N	\$ 759.00	68.00%	\$ 242.88
N	\$ 759.00	68.00%	\$ 242.88
N	\$ 759.00	68.00%	\$ 242.88
N	\$ 418.00	68.00%	\$ 133.76
N	\$ 451.00	68.00%	\$ 144.32
N	\$ 418.00	68.00%	\$ 133.76
N	\$ 974.00	68.00%	\$ 311.68
N	\$ 809.00	68.00%	\$ 258.88
N	\$ 759.00	68.00%	\$ 242.88
Y	\$ 16,500.00	68.00%	\$ 5,280.00
Y	\$ 19,500.00	68.00%	\$ 6,240.00
Y	\$ 21,000.00	68.00%	\$ 6,720.00
Y	\$ 24,000.00	68.00%	\$ 7,680.00
Y	\$ 16,500.00	68.00%	\$ 5,280.00
Y	\$ 19,500.00	68.00%	\$ 6,240.00
Y	\$ 21,000.00	68.00%	\$ 6,720.00
Y	\$ 24,000.00	68.00%	\$ 7,680.00
Y	\$ 17,500.00	68.00%	\$ 5,600.00
Y	\$ 20,500.00	68.00%	\$ 6,560.00
Y	\$ 22,000.00	68.00%	\$ 7,040.00
Y	\$ 25,000.00	68.00%	\$ 8,000.00
Y	\$ 1,500.00	68.00%	\$ 480.00
Y	\$ 1,500.00	68.00%	\$ 480.00
Y	\$ 1,450.00	68.00%	\$ 464.00
Y	\$ 1,450.00	68.00%	\$ 464.00
Y	\$ 1,900.00	68.00%	\$ 608.00
Y	\$ 1,900.00	68.00%	\$ 608.00
Y	\$ 2,100.00	68.00%	\$ 672.00
Y	\$ 2,100.00	68.00%	\$ 672.00
N	\$ 250.00	68.00%	\$ 80.00
N	\$ 3,000.00	68.00%	\$ 960.00
N	\$ 3,500.00	68.00%	\$ 1,120.00
N	\$ 4,000.00	68.00%	\$ 1,280.00
N	\$ 4,500.00	68.00%	\$ 1,440.00
N	\$ 5,000.00	68.00%	\$ 1,600.00
N	\$ 5,500.00	68.00%	\$ 1,760.00

Added 5/15/2023

Added 5/15/2023

Added 5/15/2023

Added 5/15/2023

Added 5/15/2023

N	\$ 6,000.00	68.00%	\$ 1,920.00
N	\$ 6,500.00	68.00%	\$ 2,080.00
N	\$ 1,500.00	68.00%	\$ 480.00
N	\$ 1,200.00	68.00%	\$ 384.00
N	\$ 2,500.00	68.00%	\$ 800.00
N	\$ 1,000.00	68.00%	\$ 320.00
N	\$ 2,750.00	68.00%	\$ 880.00
N	\$ 500.00	68.00%	\$ 160.00
N	\$ 500.00	68.00%	\$ 160.00
N	\$ 500.00	68.00%	\$ 160.00
N	\$ 500.00	68.00%	\$ 160.00
N	\$ 500.00	68.00%	\$ 160.00
N	\$ 500.00	68.00%	\$ 160.00
N	\$ 500.00	68.00%	\$ 160.00
N	\$ 500.00	68.00%	\$ 160.00
N	\$ 250.00	68.00%	\$ 80.00
N	\$ 3,000.00	68.00%	\$ 960.00
N	\$ 3,500.00	68.00%	\$ 1,120.00
N	\$ 4,000.00	68.00%	\$ 1,280.00
N	\$ 4,500.00	68.00%	\$ 1,440.00
N	\$ 5,000.00	68.00%	\$ 1,600.00
N	\$ 5,500.00	68.00%	\$ 1,760.00
N	\$ 6,000.00	68.00%	\$ 1,920.00
N	\$ 6,500.00	68.00%	\$ 2,080.00
N	\$ 1,200.00	68.00%	\$ 384.00
N	\$ 1,000.00	68.00%	\$ 320.00
N	\$ 5,000.00	68.00%	\$ 1,600.00

Added 5/15/2023





Customer Specific		
Part No	Description	Spare
1AD144370001	Standoff Bracket - 5.25"	N
3MU00179DM	W/G Adapter Type N-CPR-137G	N
3MU00179DP	Cable Assy 6 FT SMA TO Type N	N
409106473	Chatsworth RACK, 46053-505, 7'6 UNIV FRAME, TWO TOP BARS, 19, CLEAR	N
409083052	Juice Goose PDU	N
1AB014410010	FUSE OTHER 15A_QUICK	N
3MU00139AA	CABLE GND PDU to FrameRING TERM 10	N
1AB596810019	ION Synch Cable, 74 in, 1.0/2.3 Plug to BNC Male	N
3EM24130BC	Waveguide, Straight, 6in	N
3EM24154AP	Waveguide WR-75 St 7.0 in	N
695-7834-009	4 FT SMA TO SMA CABLE	N
695-7834-010	6 FT SMA TO SMA CABLE	N
379-0539-180	30.00 dB 50 Ohm FIXED RF ATTENUATOR	N
1AF06488AAAA	Adapter, 90CA1235, 11GHz WR90 Waveguide to SMA adapters	N
1AF06488AAAA	Adapter, 90CA1235, 11GHz WR90 Waveguide to SMA adapters	N
3EM23867AA	Diplexer Transition Initial Kit Bracket	N
End of Customer Specific		

NASPO ValuePoint MSRP	NASPO ValuePoint Discount %	NASPO ValuePoint Unit Price
\$ 100.00	34.00%	\$ 66.00
\$ 1,800.00	34.00%	\$ 1,188.00
\$ 225.00	34.00%	\$ 148.50
\$ 1,875.00	34.00%	\$ 1,237.50
\$ 2,800.00	34.00%	\$ 1,848.00
\$ 3.76	34.00%	\$ 2.48
\$ 23.86	34.00%	\$ 15.75
\$ 63.70	34.00%	\$ 42.04
\$ 250.00	34.00%	\$ 165.00
\$ 225.00	34.00%	\$ 148.50
\$ 145.00	34.00%	\$ 95.70
\$ 145.00	34.00%	\$ 95.70
\$ 600.00	34.00%	\$ 396.00
\$ 400.00	34.00%	\$ 264.00
\$ 400.00	34.00%	\$ 264.00
\$ 110.00	34.00%	\$ 72.60



Network Management System

TSM-8000 Network Management

Part No	Description
TSM-8000 Fully Redundant Workstation Kit	
3EM16790EP	Server Wkstn Kit, Win Server, 110 VAC
TSM-8000 Single Client Workstation Kit	
3EM16790BV	Single Client as Server Wkstn Kit, Win , 110 VAC
TSM-8000 SNMP / TL1 Workstation Kit	
3EM16790GW	Server Wkstn Kit, 1U, Win Server, 110 VAC
TSM-8000 Server ONLY	
3EM16790DH	Server workstation (rack mount) - with 17" LCD monitor, WIN Server OS 110 VAC
3EM16790GY	Server, 1U High (rack mount) SNMP Only, WIN Server OS 110 VAC
SNMP Software	
3EM16790BA	Server License, 24 NE Ltd, SNMP
3EM16790BB	Server License, 32 NE Ltd, SNMP
3EM16790BC	Server License, 64 NE Ltd, SNMP
3EM16790BD	Server License, 128 NE Ltd, SNMP
3EM16790FS	Server License, 256 NE Ltd, SNMP
3EM16790FM	Server License, 512 NE Ltd, SNMP
3EM16790BE	Server License, 1024 NE, SNMP
SNMP + MCS-11 + TL1 Software	
3EM16790BL	Server License, 24 NE Ltd, SNMP/MCS/TL1
3EM16790BM	Server License, 32 NE Ltd, SNMP/MCS/TL1
3EM16790BN	Server License, 64 NE Ltd, SNMP & MCS/TL1
3EM16790BP	Server License, 128 NE Ltd, SNMP & MCS/TL1
3EM16790FT	Server License, 256 NE Ltd, SNMP & MCS/TL1
3EM16790FN	Server License, 512 NE Ltd, SNMP & MCS/TL1
3EM16790BQ	Server License, 1024 NE, SNMP & MCS/TL1
SNMP Upgrade Pricing - From MCS-11+ TL1 to SNMP + MCS-11 + TL1	
3EM16790CA	Client License and Software SNMP Upgrade

3EM16790CC	Server License Upgrade, 24 NE Ltd, MCS-11/TL1 to SNMP & MCS-11/TL1
3EM16790CD	Server License Upgrade, 32 NE Ltd, MCS-11/TL1 to SNMP & MCS-11/TL1
3EM16790CE	Server License Upgrade, 64 NE Ltd, MCS-11/TL1 to SNMP & MCS-11/TL1
3EM16790CF	Server License Upgrade, 128 NE Ltd, MCS-11/TL1 to SNMP & MCS-11/TL1
3EM16790FV	Server License Upgrade, 256 NE Ltd, MCS-11/TL1 to SNMP & MCS-11/TL1
3EM16790FQ	Server License Upgrade, 512 NE Ltd, MCS-11/TL1 to SNMP & MCS-11/TL1
3EM16790CG	Server License Upgrade, 1024 NE, MCS-11/TL1 to SNMP & MCS-11/TL1
	MCS-11+TL1 Upgrade Pricing - From SNMP Only to SNMP+ MC-11 + TL1
3EM16790CB	Client Log-in License, MCS-11/TL-1 Upgrade
3EM16790EY	Server License Upgrade, 24 NE Ltd, SNMP to SNMP & MCS-11/TL1
3EM16790EW	Server License Upgrade, 32 NE Ltd, SNMP to SNMP & MCS-11/TL1
3EM16790EV	Server License Upgrade, 64 NE Ltd, SNMP to SNMP & MCS-11/TL1
3EM16790EU	Server License Upgrade, 128 NE Ltd, SNMP to SNMP & MCS-11/TL1
3EM16790FW	Server License Upgrade, 256 NE Ltd, SNMP to SNMP & MCS-11/TL1
3EM16790FR	Server License Upgrade, 512 NE Ltd, SNMP to SNMP & MCS-11/TL1
3EM16790ET	Server License Upgrade, 1024 NE, SNMP to SNMP & MCS-11/TL1
	NE Upgrade - Only from same Software type
3EM16790HA	NE Upgrade 24 NE to 32 NE
3EM16790HB	NE Upgrade 32 NE to 64 NE
3EM16790HC	NE Upgrade 64 NE to 128 NE
3EM16790HD	NE Upgrade 128 NE to 256 NE
3EM16790HE	NE Upgrade 256 NE to 512 NE
3EM16790HF	NE Upgrade 512 NE to 1000 NE
	TSM-8000 Software Feature Options
3EM16790BS	SNMP Upstream Reporting
3EM16790GJ	Web Interface Feature, All Protocols
3EM16790HG	TSM-8000 Non-Nokia NE Support RTU
3EM16790HN	TSM-8000 Software Subscription
	TSM-8000 Client Software / Misc
3EM16790BR	Client Log-in License
	TSM-8000 Software Upgrades
3EM16790JD	TSM-8000 Version 8.0 Upgrade
3EM16790JE	TSM-8000 Version 18.0 Upgrade
3EM16790JF	TSM-8000 Version 18.1 Upgrade
3EM16790JG	TSM-8000 Version 19.0 Upgrade
3EM16790JH	TSM-8000 Version 19.1 Upgrade
3EM16790JJ	TSM-8000 Version 20.0 Upgrade
3EM16790JK	TSM-8000 Version 20.1 Upgrade
3EM16790JL	TSM-8000 Version 21.0 Upgrade
3EM16790JP	TSM-8000 Version 22.0 Upgrade
	TSM-8000 Client Workstations - Optional
3EM16790AC	Client workstation (tower) - Non-redundant, with 19" LCD monitor, WIN XP PRO, 110 VAC
	TSM-8000 Spares Kits

3EM16790EJ	Server Spares Kit
3EM16790EK	Client Spares Kit
	Standard Workstation Accessories
3EM16790AG	Server LAN Switch, 16 Ports, 110 VAC
3EM16790AJ	Cable set
	Server Workstation Spares
3EM16790AL	Server Motherboard, incl. video and NIC functions
3EM16790AM	Server Processor w/Fan
3EM16790AN	Server Memory 1024MB ea
3EM16790CW	Server Removable Hard Drive (cloned)
3EM16790GM	Hard Drive Bay Spare
3EM16790AQ	Server Removable Power Supply
3EM16790AS	Server 4 Port Serial Card
3EM16790CV	Server Dual Power Supply w/Cage
3EM16790HL	Server 8 port Serial Card
	Spare Server/Client Computers
3EM16790FB	Spare Server computer (rack mount) - with keyboard, WIN 2003, 110 VAC
	Monitors
3EM16790EE	Server Monitor, LCD, 17", with bezel, 110 VAC
3EM16790EG	Client/TSM2532 Monitor, LCD, 19", 110 VAC
	Client Workstation Spares
3EM16790AT	Client Motherboard
3EM16790AU	Client Processor w/Fan
3EM16790AV	Client Memory 512MB ea
3EM16790EC	Client Hard Drive (cloned)
3EM16790AY	Client Power Supply
3EM16790AZ	Client Network Card
3EM16790ED	Client Video Card
	Polling Engine
3EM16790CL	Model 2601, MCS-11 Polling Engine, Linear, TSM-8000 only, 110 VAC
3EM16790CQ	Model 2603, MCS-11 Polling Engine, High Stability Clk, Linear, TSM-8000 only, 110 VAC
	IP Tunnels
3EM18968BQ	Model 2701, IP Tunnel, 1 port
3EM18968BR	Model 2705, IP Tunnel, 5 port
	Alarm Encoders
3EM18968BF	Model 2311, SNMP Alarm Encoder
3EM18968BG	Model 2311, SNMP Alarm Encoder with analog option
3EM18968DU	Model 2314, SNMP Alarm Encoder
3EM18968DY	Model 2316, SNMP Alarm Encoder

3EM18968DV	2314 66M Punch Block w/ 5ft cable
3EM18968DW	2314 66M Punch Block w/ 25ft cable

END of TSM-8000 Price Catalog

System		
NASPO ValuePoint MSRP	NASPO ValuePoint Discount %	NASPO ValuePoint Unit Price
\$ 32,200.00	30.00%	\$ 22,540.00
\$ 20,288.00	30.00%	\$ 14,201.60
\$ 26,672.00	30.00%	\$ 18,670.40
\$ 16,800.00	30.00%	\$ 11,760.00
\$ 8,520.00	30.00%	\$ 5,964.00
\$ 13,800.00	30.00%	\$ 9,660.00
\$ 18,000.00	30.00%	\$ 12,600.00
\$ 30,000.00	30.00%	\$ 21,000.00
\$ 52,500.00	30.00%	\$ 36,750.00
\$ 69,750.00	30.00%	\$ 48,825.00
\$ 78,375.00	30.00%	\$ 54,862.50
\$ 87,000.00	30.00%	\$ 60,900.00
\$ 18,000.00	30.00%	\$ 12,600.00
\$ 25,500.00	30.00%	\$ 17,850.00
\$ 39,000.00	30.00%	\$ 27,300.00
\$ 66,000.00	30.00%	\$ 46,200.00
\$ 90,750.00	30.00%	\$ 63,525.00
\$ 103,125.00	30.00%	\$ 72,187.50
\$ 115,500.00	30.00%	\$ 80,850.00
\$ 3,300.00	30.00%	\$ 2,310.00

\$ 7,800.00	30.00%	\$ 5,460.00
\$ 12,000.00	30.00%	\$ 8,400.00
\$ 19,500.00	30.00%	\$ 13,650.00
\$ 37,500.00	30.00%	\$ 26,250.00
\$ 50,250.00	30.00%	\$ 35,175.00
\$ 56,625.00	30.00%	\$ 39,637.50
\$ 63,000.00	30.00%	\$ 44,100.00
\$ 3,000.00	30.00%	\$ 2,100.00
\$ 4,500.00	30.00%	\$ 3,150.00
\$ 7,500.00	30.00%	\$ 5,250.00
\$ 10,500.00	30.00%	\$ 7,350.00
\$ 15,000.00	30.00%	\$ 10,500.00
\$ 22,500.00	30.00%	\$ 15,750.00
\$ 26,250.00	30.00%	\$ 18,375.00
\$ 30,000.00	30.00%	\$ 21,000.00
\$ 4,680.00	30.00%	\$ 3,276.00
\$ 9,600.00	30.00%	\$ 6,720.00
\$ 19,800.00	30.00%	\$ 13,860.00
\$ 16,800.00	30.00%	\$ 11,760.00
\$ 8,400.00	30.00%	\$ 5,880.00
\$ 8,400.00	30.00%	\$ 5,880.00
\$ 15,000.00	30.00%	\$ 10,500.00
\$ 15,000.00	30.00%	\$ 10,500.00
\$ 1,500.00	30.00%	\$ 1,050.00
\$ 30,000.00	30.00%	\$ 21,000.00
\$ 10,800.00	30.00%	\$ 7,560.00
\$ 12,000.00	30.00%	\$ 8,400.00
\$ 12,000.00	30.00%	\$ 8,400.00
\$ 12,000.00	30.00%	\$ 8,400.00
\$ 12,000.00	30.00%	\$ 8,400.00
\$ 12,000.00	30.00%	\$ 8,400.00
\$ 12,000.00	30.00%	\$ 8,400.00
\$ 12,000.00	30.00%	\$ 8,400.00
\$ 18,000.00	30.00%	\$ 12,600.00
\$ 12,000.00	30.00%	\$ 8,400.00
\$ 8,400.00	30.00%	\$ 5,880.00

Changed 4/5/2022
Added 5/15/2023

\$ 7,618.00	30.00%	\$ 5,332.60
\$ 2,844.00	30.00%	\$ 1,990.80
\$ 840.00	30.00%	\$ 588.00
\$ 360.00	30.00%	\$ 252.00
\$ 1,020.00	30.00%	\$ 714.00
\$ 744.00	30.00%	\$ 520.80
\$ 504.00	30.00%	\$ 352.80
\$ 2,700.00	30.00%	\$ 1,890.00
\$ 480.00	30.00%	\$ 336.00
\$ 816.00	30.00%	\$ 571.20
\$ 1,020.00	30.00%	\$ 714.00
\$ 1,488.00	30.00%	\$ 1,041.60
\$ 2,148.00	30.00%	\$ 1,503.60
\$ 14,808.00	30.00%	\$ 10,365.60
\$ 1,992.00	30.00%	\$ 1,394.40
\$ 2,640.00	30.00%	\$ 1,848.00
\$ 540.00	30.00%	\$ 378.00
\$ 576.00	30.00%	\$ 403.20
\$ 264.00	30.00%	\$ 184.80
\$ 740.00	30.00%	\$ 518.00
\$ 240.00	30.00%	\$ 168.00
\$ 264.00	30.00%	\$ 184.80
\$ 420.00	30.00%	\$ 294.00
		\$0
\$ 5,040.00	30.00%	\$ 3,528.00
\$ 5,520.00	30.00%	\$ 3,864.00
\$ 4,800.00	30.00%	\$ 3,360.00
\$ 5,760.00	30.00%	\$ 4,032.00
\$ 5,000.00	30.00%	\$ 3,500.00
\$ 6,700.00	30.00%	\$ 4,690.00
\$ 2,500.00	30.00%	\$ 1,750.00
\$ 4,000.00	30.00%	\$ 2,800.00

Changed 4/5/2022

Changed 4/5/2022

Changed 4/5/2022

\$	475.00	30.00%	\$	332.50
\$	500.00	30.00%	\$	350.00





Microwave Engineering Services

Part No	Group Item
	Path Survey (< 11 GHz)
SVC-KWIE-ENG-TSE9	
SVC-KWIE-ENG-TSE10	
SVC-KWIE-ENG-TSE11	
SVC-KWIE-ENG-TSE12	
SVC-KWIE-ENG-TSE13	
SVC-KWIE-ENG-TSE8	
	Path Design
SVC-KWIE-ENG-TSE16	
SVC-KWIE-ENG-TSE17	
SVC-KWIE-ENG-TSE18	
SVC-KWIE-ENG-TSE19	
	Frequency Selection/Coordination
SVC-KWIE-ENG-TSE20	
SVC-KWIE-ENG-TSE22	
SVC-KWIE-ENG-TSE23	
SVC-KWIE-ENG-TSE24	
SVC-KWIE-ENG-TSE25	
SVC-KWIE-ENG-TSE26	
SVC-KWIE-ENG-TSE27	
SVC-KWIE-ENG-TSE28	
	FCC License Application
SVC-KWIE-ENG-TSE29	
SVC-KWIE-ENG-TSE31	
SVC-KWIE-ENG-TSE43	
SVC-KWIE-ENG-TSE44	
SVC-KWIE-ENG-TSE45	
SVC-KWIE-ENG-TSE37	
SVC-KWIE-ENG-TSE38	
SVC-KWIE-ENG-TSE54	
	FCC Regulatory Services
SVC-KWIE-ENG-TSE46	
SVC-KWIE-ENG-TSE47	
SVC-KWIE-ENG-TSE48	
SVC-KWIE-ENG-TSE30	
SVC-KWIE-ENG-TSE49	
SVC-KWIE-ENG-TSE50	
SVC-KWIE-ENG-TSE51	
SVC-KWIE-ENG-TSE52	

SVC-KWIE-ENG-TSE53	
	Transmission Engineering
SVC-KWIE-ENG-TSE32	
SVC-KWIE-ENG-TSE33	
	Network Engineering
SVC-KWIE-ENG-TSE34	
SVC-KWIE-ENG-TSE35	
SVC-KWIE-ENG-TSE36	
SVC-KWIE-ENG-NE1	
SVC-QHIE-ENG-PO1	
3EM24226AF	
	MW Product Freight
SVC-YGRL-RF1	
SVC-YGRL-AS1	
SVC-YGRL-AS2	
SVC-YGRL-AS3	
SVC-YGRL-AS4	
	Field Engineering
SVC-QHIE-ENG-FE1	
SVC-QHIE-ENG-FE2	
SVC-QHIE-ENG-FE3	
	Field Engineering - Outside Plant
300054129-FEOSP1	
300054129-FEOSP2	
300054129-FEOSP3	
	Installation & Commission (Microwave)
SVC-QHIE-INST-INCOM1	
SVC-QHIE-INST-INCOM2	
SVC-QHIE-INST-INCOM3	
SVC-QHIE-INST-INCOM4	
SVC-QHIE-INST-INCOM5	
SVC-QHIE-INST-INCOM6	
SVC-QHIE-INST-INCOM7	
SVC-QHIE-INST-INCOM8	
SVC-QHIE-INST-INCOM9	
SVC-QHIE-INST-INCOM10	
SVC-QHIE-INST-INCOM11	
	Program Management Office (PMO)
P637992	
P637996	
	Field Maintenance (Wavance)
301094843-FM1	

301094843-FM2	
301094843-FM3	
	Product Maintenance (Wavance)(5)
301090767-Bronze	
301090791-AE5	
301090767-Gold	
301090791-NBD	
301090775	
301090767-TSM	

- Notes:
- 1 Does not include FCC fees, if any
 - 1.5 No fees for State and Local Government including education
 - 2 Pricing does not apply to states with prevailing wages statutes and can be quoted
 - 3 SVC-KWIE-ENG, SVC-YGRL requires the description to be included with all orders
 - 4 A Man Day is considered to be 8 hours.
 - 5 Both Technical Support and Advanced Exchange must be bought together.

Nokia Microwave Engineering Services	
Description	Metric
Path Survey (single hop system)	Single hop system
Path Survey (1st hop for a connected multi-hop system)	1st hop for a connected multi-hop system
Path Survey (2nd hop+ for a connected multi-hop system)	2nd hop+ for a connected multi-hop system
Path Survey (Each single path in a multi-hop system, not connected)	Each single path in a multi-hop system
Path Survey Air Fare (per survey)(1 Surveyor with equipment shipment)	Per man with equipment shipment
Path Survey (Per Man Day)	Path Survey (Per Man Day)
System Map (1–10 paths)	Each
System Map (10+ paths)	Each
Path Design (per path)	Per path
Path Performance Calculations (per path)	Per path
Frequency Selection (all bands except 80 GHz / per freq pair)	Per path
Normal 30–day Prior Coordination (per system)	Per system
Expedited Prior Coordination (1st path)	1st path
Expedited Prior Coordination (2nd path)	2nd path+
Major Change Analysis (per path)	Per path
Minor Change Analysis (per path)	Per path
Prior Coordination Renewal within 6 months of PCN date (1st path)	1st path
Prior Coordination Renewal within 6 months of PCN 2nd path+ (per path)	2nd path+
FCC License Application Prep (New/Mod) (per site / Form 601) (Note 1)	Per path (New/Mod) (per site / Form
Waiver Preparation (Note 1)	Waiver Preparation (Note 1) Each
FCC License Fees (Note 1.5)(new site)(per site)	Per New Site
FCC License Fees (Note 1.5)(modification to existing license)(per site)	Per Site
FCC Application - Waiver Application (Note 1.5)(per site)	Per Site
80 GHz Nationwide Licensing (US applications only) (One Time Charge)	One Time Charge
80 GHz Link Registration (US applications only)(Per Path)Each link registration after	Per Path
80 GHz Registration (US Applications only) (Per Path) (Not required if licensee is fee-exempt, e.g governmental entities)	Per Path
AM Broadcast Tower Proximity Check	Each
FAA Non-Hazard FAA Determination filing	Each
FCC ASR Filing	Each
STA Form Preparation (Note 1.5)	Each
FCC STA Filing Fees - Part 101 (Note 1.5) (private only)	Each
FCC STA Filing Fees - Part 101 (Note 1.5) (Common Carrier i.e. Wireless)	Each
FCC STA Filing Fees - Part 74	Each
License Extension (per Call Sign)	per Call Sign

FCC Filing Fee for License Extension Waiver (Private only)	Each
Senior Transmission Systems Engineer (per Hour)	Per Man Hour
Transmission Systems Engineer (per Hour)	Per Man Hour
Senior Network Engineer (per hour)	Per Man Hour
Network Engineer (per hour)	Per Man Hour
Network Engineering Drawings (per hour)	Per Man Hour
Application and Network Engineer (per site)	Per Man Hour
Application and configuration release (per site)	Per Man Hour
Customer Witness Test & Integration Certificate (Per Test Element) Factory Integration / Staging Customer Witness Test	Per Test Element
MW Product Freight per radio rack	Per unit
MW Product Freight per small antenna	Per unit
MW Product Freight per medium antenna	Per unit
MW Product Freight per large antenna (or HI and AK)	Per unit
MW Product Freight per Ice Shield	Per unit
Field Service Engineer (Per Man Hour) (Includes T&L)	Per Man Hour
Field Living Expenses (per man per calendar day) (Includes T&L)	Per calendar day - 1 Field Engineer
Air Fare (per man) (1 Engineer with equipment shipment) (Includes T&L)	Per man with equipment shipment
Outside Plant Engineering e.g. Tower Structural Analysis, Grounding, etc. (Includes	Per Man Hour
Field Living Expenses (per man per calendar day) (Includes T&L)	Per calendar day - 1 Field Engineer
Air Fare (per man)(1 Engineer with equipment shipment) (Includes T&L)	Per man with equipment shipment
Microwave Antenna / Tower Installation Services (Per Man Hour) (Includes T&L)	Per Man Hour
Radio Installation Services (Per Man Hour) (Includes T&L)	Per Man Hour
Radio Commissioning and Test Services (Per Man Hour) (Includes T&L)	Per Man Hour
Ancillary Equipment Installation and Test Services (Per Man Hour) (Includes T&L)	Per Man Hour
Deployment Project Management (Per Man Hour) (Includes T&L)	Per Man Hour
Field Supervisor (Per Man Hour) (Includes T&L)	Per Man Hour
Network Management Engineering (Per Man Hour) (Includes T&L)	Per Man Hour
Field Living Expenses (Per calendar day) (1 Field Engineer)(Includes T&L)	Per calendar day - 1 Field Engineer
Air Fare (per man)(1 Engineer with equipment shipment) (Includes T&L)	Per man with equipment shipment
Microwave Radio and Antenna Misc Installation Materials	Unit
Microwave Radio and Antenna Material Warehousing	Cubic Meter Per Month
PMI certified project manager skilled in all aspects of managing network deployment projects. MN Deploy Project Mng X-Haul Microwave (PMO)	Per Hour
PMI certified project manager skilled in all aspects of managing network deployment projects. MN Deploy Project Mng X-Haul MW Non-SPC	Per Hour
Radio Field Maintenance (Per Man Hour)	Per Man Hour

Field Living Expenses (Per calendar day) (1 Technician	Per calendar day - 1 Field Tech
Air Fare (per man)(1 Technician with equipment shipment)	Per man with equipment shipment
Technical Support Bronze (Must be bought with Advanced Exchange 5 Business days)	7x24x365 Annual rate per TR
Advanced Exchange 5 Business days (Must be bought with Tech Support Bronze)	Annual rate after warranty per TR
Technical Support Gold (Must be bought with Advanced Exchange Next Business day)	7x24x365 Annual rate per TR
Advanced Exchange Next Business day (Must be bought with Tech Support Gold)	Annual rate after warranty per TR
Standard Repair (60 Days)	Return for Repair 60 Days
Technical Support TSM-8000	7x24x365 Annual rate per TSM

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nd of Nokia Microwave Engineering Services

65%

NASPO ValuePoint MSRP	NASPO ValuePoint Discount %	NASPO ValuePoint Unit Price
\$ 14,045.71	65.00%	\$ 4,916.00
\$ 14,045.71	65.00%	\$ 4,916.00
\$ 11,234.29	65.00%	\$ 3,932.00
\$ 14,045.71	65.00%	\$ 4,916.00
\$ 11,428.57	65.00%	\$ 4,000.00
\$ 5,105.71	65.00%	\$ 1,787.00
\$ 285.71	65.00%	\$ 100.00
\$ 571.43	65.00%	\$ 200.00
\$ 428.57	65.00%	\$ 150.00
\$ 428.57	65.00%	\$ 150.00
\$ 2,428.57	65.00%	\$ 850.00
\$ 885.71	65.00%	\$ 310.00
\$ 2,620.00	65.00%	\$ 917.00
\$ 542.86	65.00%	\$ 190.00
\$ 1,551.43	65.00%	\$ 543.00
\$ 914.29	65.00%	\$ 320.00
\$ 857.14	65.00%	\$ 300.00
\$ 214.29	65.00%	\$ 75.00
\$ 1,328.57	65.00%	\$ 465.00
\$ 614.29	65.00%	\$ 215.00
\$ 3,628.57	65.00%	\$ 1,270.00
\$ 1,228.57	65.00%	\$ 430.00
\$ 757.14	65.00%	\$ 265.00
\$ 1,225.71	65.00%	\$ 429.00
\$ 817.14	65.00%	\$ 286.00
\$ 1,828.57	65.00%	\$ 640.00
\$ 142.86	65.00%	\$ 50.00
\$ 1,714.29	65.00%	\$ 600.00
\$ 857.14	65.00%	\$ 300.00
\$ 814.29	65.00%	\$ 285.00
\$ 285.71	65.00%	\$ 100.00
\$ 531.43	65.00%	\$ 186.00
\$ 714.29	65.00%	\$ 250.00
\$ 614.29	65.00%	\$ 215.00

\$ 900.00	65.00%	\$ 315.00
\$ 714.29	65.00%	\$ 250.00
\$ 571.43	65.00%	\$ 200.00
\$ 714.29	65.00%	\$ 250.00
\$ 500.00	65.00%	\$ 175.00
\$ 285.71	65.00%	\$ 100.00
\$ 2,285.71	65.00%	\$ 800.00
\$ 857.14	65.00%	\$ 300.00
\$ 1,857.14	65.00%	\$ 650.00
\$ 1,142.86	65.00%	\$ 400.00
\$ 857.14	65.00%	\$ 300.00
\$ 1,428.57	65.00%	\$ 500.00
\$ 2,285.71	65.00%	\$ 800.00
\$ 1,000.00	65.00%	\$ 350.00
\$ 514.29	65.00%	\$ 180.00
\$ 971.43	65.00%	\$ 340.00
\$ 11,428.57	65.00%	\$ 4,000.00
\$ 514.29	65.00%	\$ 180.00
\$ 971.43	65.00%	\$ 340.00
\$ 11,428.57	65.00%	\$ 4,000.00
\$ 1,074.29	65.00%	\$ 376.00
\$ 902.86	65.00%	\$ 316.00
\$ 902.86	65.00%	\$ 316.00
\$ 902.86	65.00%	\$ 316.00
\$ 514.29	65.00%	\$ 180.00
\$ 525.71	65.00%	\$ 184.00
\$ 525.71	65.00%	\$ 184.00
\$ 971.43	65.00%	\$ 340.00
\$ 11,428.57	65.00%	\$ 4,000.00
\$ 28.57	65.00%	\$ 10.00
\$ 1,200.00	65.00%	\$ 420.00
\$ 491.43	65.00%	\$ 172.00
\$ 491.43	65.00%	\$ 172.00
\$ 902.86	65.00%	\$ 316.00

Changed 5/15/2023

Changed 5/15/2023

Added 5/15/2023

Added 5/15/2023

\$ 971.43	65.00%	\$ 340.00
\$ 11,428.57	65.00%	\$ 4,000.00
\$ 480.00	65.00%	\$ 168.00
\$ 720.00	65.00%	\$ 252.00
\$ 551.43	65.00%	\$ 193.00
\$ 828.57	65.00%	\$ 290.00
\$ 905.71	65.00%	\$ 317.00
Custom Bid	0.00%	Custom Bid

Add 4/5/2022





Antenna Systems

Part No	CommScope P/N	Frequency Band
3CC57111AA	Commscope VHLP2-8015-AUBT	15/80
3CC57112AA	Commscope VHLP2-8018-AUBT	18/80
3CC57113AA	Commscope VHLP2-8023-AUBT	23/80
3CC57012AA	Commscope VHLP3-6W-AUBTR	5.925 – 7.125
3CC57020AA	Commscope VHLP3-6W-AUBTC	5.925 – 7.125
3CC57088AA	Commscope VHLPX3-6W-AUBT	5.925 – 7.125
3CC57233AA	Commscope SHP3-6W-BUBTRC	5.925 – 7.125
3CC57029AA	VHLP4-6W-AUBTR	5.925-7.125
3CC57037AA	VHLP4-6W-AUBTC	5.925-7.125
3CC57096AA	VHLPX4-6W-AUBTR	5.925-7.125
3CC57176AA	Commscope SHP4-6W-AUBTRC	5.925-7.125
3CC57051AA	VHLP6-6W-AUBTR	5.925-7.125
3CC57058AA	VHLP6-6W-AUBTC	5.925-7.125
3CC57104AA	VHLPX6-6W-AUBTR	5.925-7.125
3CC56990AA	VHLP2-11W-AUBTR	10.7-11.7
3CC57002AA	VHLP2-11W-AUBTC	10.7-11.7
3CC57259AA	Commscope VHLP2-11W-BUBTR	10.7-11.7
3CC57271AA	Commscope VHLP2-11W-BUBTC	10.7-11.7

3CC57284AA	Commscope VHLPX2-11W-BUBTR	10.7-11.7
3CC57077AA	VHLPX2-11W-AUBTR	10.7-11.7
3CC57014AA	VHLP3-11W-AUBTR	10.7-11.7
3CC57022AA	VHLP3-11W-AUBTC	10.7-11.7
3CC57090AA	VHLPX3-11W-AUBTR	10.7-11.7
3CC57234AA	Commscope SHP3-11W-BUBTRC	10.7-11.7
3CC57031AA	VHLP4-11W-AUBTR	10.7-11.7
3CC57039AA	VHLP4-11W-AUBTC	10.7-11.7
3CC57098AA	VHLPX4-11W-AUBTR	10.7-11.7
3CC57178AA	Commscope SHP4-11W-AUBTRC	10.7-11.7
3CC57053AA	Commscope VHLP6-11W-AUBTR	10.7-11.7
3CC57060AA	Commscope VHLP6-11W-AUBTC	10.7-11.7
3CC57106AA	Commscope VHLPX6-11W-AUBTR	10.7-11.7
3CC56969AA	Commscope VHLP1-13-AUBTR	12.700 –13.250
3CC56980AA	Commscope VHLP1-13-AUBTC	12.700 –13.250
3CC57065AA	Commscope VHLPX1-13-AUBTR	12.700 –13.250
3CC56991AA	Commscope VHLP2-13-AUBTR	12.700 –13.250
3CC57003AA	Commscope VHLP2-13-AUBTC	12.700 –13.250
3CC57078AA	Commscope VHLPX2-13-AUBTR	12.700 –13.250
3CC57260AA	Commscope VHLP2-13-BUBTR	12.700 –13.250
3CC57272AA	Commscope VHLP2-13-BUBTC	12.700 –13.250
3CC57285AA	Commscope VHLPX2-13-BUBTR	12.700 –13.250
3CC57160AA	Commscope SHP2-13-AUBTRC	12.700 –13.250
3CC57015AA	Commscope VHLP3-13-AUBTR	12.700 –13.250

3CC57024AA	Commscope VHLP3-13-AUBTC	12.700 –13.250
3CC57091AA	Commscope VHLPX3-13-AUBTR	12.700 –13.250
3CC57235AA	Commscope SHP3-13-BUBTRC	12.700 –13.250
3CC57032AA	Commscope VHLP4-13-AUBTR	12.700 –13.250
3CC57040AA	Commscope VHLP4-13-AUBTC	12.700 –13.250
3CC57099AA	Commscope VHLPX4-13-AUBTR	12.700 –13.250
3CC57179AA	Commscope SHP4-13-AUBTRC	12.700 –13.250
3CC57054AA	Commscope VHLP6-13-AUBTR	12.700 –13.250
3CC57061AA	Commscope VHLP6-13-AUBTC	12.700 –13.250
3CC57107AA	Commscope VHLPX6-13-AUBTR	12.700 –13.250
3CC56970AA	Commscope VHLP1-15-AUBTR	14.400 – 15.350
3CC56981AA	Commscope VHLP1-15-AUBTC	14.400 – 15.350
3CC57066AA	Commscope VHLPX1-15-AUBTR	14.400 – 15.350
3CC56992AA	Commscope VHLP2-15-AUBTR	14.400 – 15.350
3CC57004AA	Commscope VHLP2-15-AUBTC	14.400 – 15.350
3CC57079AA	Commscope VHLPX2-15-AUBTR	14.400 – 15.350
3CC57261AA	Commscope VHLP2-15-BUBTR	14.400 – 15.350
3CC57273AA	Commscope VHLP2-15-BUBTC	14.400 – 15.350
3CC57286AA	Commscope VHLPX2-15-BUBTR	14.400 – 15.350
3CC57161AA	Commscope SHP2-15-AUBTRC	14.400 – 15.350
3CC57016AA	Commscope VHLP3-15-AUBTR	14.400 – 15.350
3CC57025AA	Commscope VHLP3-15-AUBTC	14.400 – 15.350
3CC57092AA	Commscope VHLPX3-15-AUBTR	14.400 – 15.350
3CC57236AA	Commscope SHP3-15-BUBTRC	14.400 – 15.350

3CC57033AA	Commscope VHLP4-15-AUBTR	14.400 – 15.350
3CC57041AA	Commscope VHLP4-15-AUBTC	14.400 – 15.350
3CC57100AA	Commscope VHLPX4-15-AUBTR	14.400 – 15.350
3CC57180AA	Commscope SHP4-15-AUBTRC	14.400 – 15.350
3CC57055AA	Commscope VHLP6-15-AUBTR	14.400 – 15.350
3CC57062AA	Commscope VHLP6-15-AUBTC	14.400 – 15.350
3CC57108AA	Commscope VHLPX6-15-AUBTR	14.400 – 15.350
3CC56971AA	VHLP1-18-AUBTR	17.7-19.7
3CC56982AA	VHLP1-18-AUBTC	17.7-19.7
3CC57067AA	VHLPX1-18-AUBTR	17.7-19.7
1AF30158AAAA	VHLPX1-18-2WH/E	17.7-19.7
3CC56993AA	VHLP2-18-AUBTR	17.7-19.7
3CC57005AA	VHLP2-18-AUBTC	17.7-19.7
3CC57080AA	VHLPX2-18-AUBTR	17.7-19.7
3CC57262AA	Commscope VHLP2-18-BUBTR	17.7-19.7
3CC57274AA	Commscope VHLP2-18-BUBTC	17.7-19.7
3CC57287AA	Commscope VHLPX2-18-BUBTR	17.7-19.7
3CC57162AA	Commscope SHP2-18-AUBTRC	17.7-19.7
3CC57017AA	Commscope VHLP3-18-AUBTR	17.7-19.7
3CC57026AA	Commscope VHLP3-18-AUBTC	17.7-19.7
3CC57237AA	Commscope SHP3-18-BUBTRC	17.7-19.7
3CC57034AA	Commscope VHLP4-18-AUBTR	17.7-19.7
3CC57042AA	Commscope VHLP4-18-AUBTC	17.7-19.7
3CC57056AA	Commscope VHLP6-18-AUBTR	17.7-19.7

3CC57063AA	Commscope VHLP6-18-AUBTC	17.7-19.7
3CC57093AA	Commscope VHLPX3-18-AUBTR	17.7-19.7
3CC57101AA	Commscope VHLPX4-18-AUBTR	17.7-19.7
3CC57109AA	Commscope VHLPX6-18-AUBTR	17.7-19.7
3CC56972AA	VHLP1-23-AUBTR	21.2-23.6
3CC56983AA	VHLP1-23-AUBTC	21.2-23.6
3CC57068AA	VHLPX1-23-AUBTR	21.2-23.6
3CC57154AA	Commscope SHP1-23-AUBTRC	21.2-23.6
3CC56994AA	VHLP2-23-AUBTR	21.2-23.6
3CC57006AA	VHLP2-23-AUBTC	21.2-23.6
3CC57081AA	VHLPX2-23-AUBTR	21.2-23.6
3CC57263AA	Commscope VHLP2-23-BUBTR	21.2-23.6
3CC57275AA	Commscope VHLP2-23-BUBTC	21.2-23.6
3CC57288AA	Commscope VHLPX2-23-BUBTR	21.2-23.6
3CC57163AA	Commscope SHP2-23-AUBTRC	21.2-23.6
3CC57018AA	Commscope VHLP3-23-AUBTR	21.2-23.6
3CC57027AA	Commscope VHLP3-23-AUBTC	21.2-23.6
3CC57035AA	Commscope VHLP4-23-AUBTR	21.2-23.6
3CC57043AA	Commscope VHLP4-23-AUBTC	21.2-23.6
3CC57057AA	Commscope VHLP6-23-AUBTR	21.2-23.6
3CC57064AA	Commscope VHLP6-23-AUBTC	21.2-23.6
3CC57094AA	Commscope VHLPX3-23-AUBTR	21.2-23.6
3CC57102AA	Commscope VHLPX4-23-AUBTR	21.2-23.6
3CC57110AA	Commscope VHLPX6-23-AUBTR	21.2-23.6

3CC57238AA	Commscope SHP3-23-BUBTRC	21.2-23.6
3CC56973AA	Commscope VHLP1-26-AUBTR	24.250 – 26.500
3CC57069AA	Commscope VHLPX1-26-AUBTR	24.250 – 26.500
3CC56984AA	Commscope VHLP2-26-AUBTC	24.250 – 26.500
3CC57155AA	Commscope SHP1-26-AUBTRC	24.250 – 26.500
3CC56995AA	Commscope VHLP2-26-AUBTR	24.250 – 26.500
3CC57007AA	Commscope VHLP2-26-AUBTC	24.250 – 26.500
3CC57082AA	Commscope VHLPX2-26-AUBTR	24.250 – 26.500
3CC57264AA	Commscope VHLP2-26-BUBTR	24.250 – 26.500
3CC57276AA	Commscope VHLP2-26-BUBTC	24.250 – 26.500
3CC57289AA	Commscope VHLPX2-26-BUBTR	24.250 – 26.500
3CC57164AA	Commscope SHP2-26-AUBTRC	24.250 – 26.500
3CC57019AA	Commscope VHLP3-26-AUBTR	24.250 – 26.500
3CC57028AA	Commscope VHLP3-26-AUBTC	24.250 – 26.500
3CC57095AA	Commscope VHLPX3-26-AUBTR	24.250 – 26.500
3CC57239AA	Commscope SHP3-26-BUBTRC	24.250 – 26.500
3CC57036AA	Commscope VHLP4-26-AUBTR	24.250 – 26.500
3CC57044AA	Commscope VHLP4-26-AUBTC	24.250 – 26.500
3CC57103AA	Commscope VHLPX4-26-AUBTR	24.250 – 26.500
3CC56974AA	Commscope VHLP1-28-AUBTR	27.500 – 29.500
3CC56985AA	Commscope VHLP1-28-AUBTC	27.500 – 29.500
3CC57156AA	Commscope SHP1-28-AUBTRC	27.500 – 29.500
3CC56996AA	Commscope VHLP2-28-AUBTR	27.500 – 29.500
3CC57008AA	Commscope VHLP2-28-AUBTC	27.500 – 29.500

3CC57070AA	Commscope VHLPX1-28-AUBTR	27.500 – 29.500
3CC57083AA	Commscope VHLPX2-28-AUBTR	27.500 – 29.500
3CC57265AA	Commscope VHLP2-28-BUBTR	27.500 – 29.500
3CC57277AA	Commscope VHLP2-28-BUBTC	27.500 – 29.500
3CC57290AA	Commscope VHLPX2-28-BUBTR	27.500 – 29.500
3CC57165AA	Commscope SHP2-28-AUBTRC	27.500 – 29.500
3CC56975AA	Commscope VHLP1-32-AUBTR	31.000 – 33.400
3CC56986AA	Commscope VHLP1-32-AUBTC	31.000 – 33.400
3CC57157AA	Commscope SHP1-32-AUBTRC	31.000 – 33.400
3CC56997AA	Commscope VHLP2-32-AUBTR	31.000 – 33.400
3CC57009AA	Commscope VHLP2-32-AUBTC	31.000 – 33.400
3CC57166AA	Commscope SHP2-32-AUBTRC	31.000 – 33.400
3CC57071AA	Commscope VHLPX1-32-AUBTR	31.000 – 33.400
3CC57084AA	Commscope VHLPX2-32-AUBTR	31.000 – 33.400
3CC57266AA	Commscope VHLP2-32-BUBTR	31.000 – 33.400
3CC57278AA	Commscope VHLP2-32-BUBTC	31.000 – 33.400
3CC57291AA	Commscope VHLPX2-32-BUBTR	31.000 – 33.400
3CC56976AA	Commscope VHLP1-38-AUBTR	37.000 – 40.000
3CC56987AA	Commscope VHLP1-38-AUBTC	37.000 – 40.000
3CC57158AA	Commscope SHP1-38-AUBTRC	37.000 – 40.000
3CC56998AA	Commscope VHLP2-38-AUBTR	37.000 – 40.000
3CC57010AA	Commscope VHLP2-38-AUBTC	37.000 – 40.000
3CC57072AA	Commscope VHLPX1-38-AUBTR	37.000 – 40.000
3CC57085AA	Commscope VHLPX2-38-AUBTR	37.000 – 40.000

3CC57267AA	Commscope VHLP2-38-BUBTR	37.000 – 40.000
3CC57279AA	Commscope VHLP2-38-BUBTC	37.000 – 40.000
3CC57292AA	Commscope VHLPX2-38-BUBTR	37.000 – 40.000
3CC57167AA	Commscope SHP2-38-AUBTRC	37.000 – 40.000
3CC56977AA	Commscope VHLP1-42-AUBTR	40.500 – 43.500
3CC56988AA	Commscope VHLP1-42-AUBTC	40.500 – 43.500
3CC57159AA	Commscope SHP1-42-AUBTRC	40.500 – 43.500
3CC57073AA	Commscope VHLPX1-42-AUBTR	40.500 – 43.500
3CC56999AA	Commscope VHLP2-42-AUBTR	40.500 – 43.500
3CC57011AA	Commscope VHLP2-42-AUBTC	40.500 – 43.500
3CC57086AA	Commscope VHLPX2-42-AUBTR	40.500 – 43.500
3CC57268AA	Commscope VHLP2-42-BUBTR	40.500 – 43.500
3CC57280AA	Commscope VHLP2-42-BUBTC	40.500 – 43.500
3CC57293AA	Commscope VHLPX2-42-BUBTR	40.500 – 43.500
3CC57168AA	Commscope SHP2-42-AUBTRC	40.500 – 43.500
3CC56978AA	CommScope VHLP1-80-AUBTR	71.000 – 86.000
3CC56979AA	CommScope VHLP1-80A-AUBTR	71.000 – 86.000
3CC57000AA	VHLP2-80-AUBTR	71.000 – 86.000
3CC57074AA	VHLPX1-80-AUBTR	71.000 – 86.000
3CC57075AA	VHLPX1-80A-AUBTR	71.000 – 86.000
3CC57087AA	VHLPX2-80-AUBTR	71.000 – 86.000
3CC57269AA	Commscope VHLP2-80-BUBTR	71.000 – 86.000
3CC57294AA	Commscope VHLPX2-80-BUBTR	71.000 – 86.000

Part No	CommScope P/N	Frequency Band
1AF33434AAAA	VHLPX3-6W-6WH/A	5.925-7.125
1AF33437AAAA	VHLP3-6W-6WH/A	5.925-7.125
1AF21072AAAA	VHLP4-6W-6WH/B	5.925-7.125
1AF21838AAAA	VHLPX4-6W-6WH/A	5.925-7.125
1AF31728ABAA	HX6-6W-6GR	5.925-7.125
1AF20097AAAA	VHLPX6-6W-6WH/A	5.925-7.125
1AF20657AAAA	VHLP6-6W-6WH/A	5.925-7.125
1AF31775AAAA	USX6-6W-6GR	5.925-7.125
1AF33424AAAA	SHPX4-6W-6WH	5.925-7.125
1AF33576AAAA	SHPX3-6W-6WH/B	5.925-7.125
1AF33440AAAA	LX6-6W-6GR	5.925-7.125
1AF31727ABAA	HX8-6W-6GR	5.925-7.125
1AF31900AAAA	USX8-6W-6GR	5.925-7.125
1AK18988AAAA	USX10-6W-6GR	5.925-7.125
1AF33364AAAA	USX10-6W-6GR	5.925-7.125
1AF32586AAAA	USX12-6W-6GR	5.925-7.125
1AF33381AAAA	VHLPX2-11W-6WH/B	10.7-11.7
1AF33382AAAA	VHLP2-11W-6WH/B	10.7-11.7
1AF20518AAAA	VHLPX3-11W-6WH	10.7-11.7
1AF20754AYAA	VHLP3-11W-6WH	10.7-11.7

1AF33435AAAA	VHLPX3-6W-6WH/A	10.7-11.7
1AF23936AAAA	VHLP4-11W-6WH	10.7-11.7
1AF24251AAAA	VHLPX4-11W-6WH	10.7-11.7
1AF33197AAAA	VHLPX4-11W-2WH/A	10.7-11.7
1AF33302AAAA	SHPX4-11W-2WH	10.7-11.7
1AF33436AAAA	USX6-11W-2GR	10.7-11.7
1AF33389AAAA	SHPX4-11W-4WH	10.7-11.7
1AF10741ABAA	VHLP6-11W-6WH/A	10.7-11.7
1AF31774AAAA	USX6-11W-6GR	10.7-11.7
1AF33200AAAA	VHLPX6-11W-2WH/A	10.7-11.7
1AF33383AAAA	VHLPX6-11W-6WH/A	10.7-11.7
1AF33387AAAA	USX6-11W-4GR	10.7-11.7
1AF33388AAAA	HX6-11W-4GR	10.7-11.7
1AF33036AAAA	SHPX4-11W-6WH	10.7-11.7
1AF31901AAAA	HX8-11W-6GR	10.7-11.7
1AF31902AAAA	USX8-11W-6GR	10.7-11.7
1AF33333AAAA	USX10-11W-6GR	10.7-11.7
1AF26554AAAA	SHPX2-15-2WH/B	14.400 – 15.350
1AF33438AAAA	VHLPX2-15-2WH/C	14.400 – 15.350
1AF33198AAAA	VHLPX4-15-2WH/C	14.400 – 15.350
1AF33439AAAA	USX8-15-2GR	14.400 – 15.350
1AF33468AAAA	VHLPX2-18-3WH/D	17.7-19.7
1AF33479AAAA	VHLPX2-18-2WHD	17.7-19.7
1AF33195AAAA	VHLPX4-18-2WH/C	17.7-19.7

1AF33481AAAA	VHLPX1-23-2WH/C	21.2-23.6
1AF33467AAAA	VHLPX2-23-3WH/D	21.2-23.6
Part No	CommScope P/N	
1AF32120AAAA	CommScope HIGHWIND-6-KIT	
1AF32121AAAA	CommScope HIGHWIND-8-KIT	
1AF33366AAAA	CommScope HIGHWIND-Kit	
1AF32122AAAA		
1AF32465AAAA	CommScope 7694873-6	
1AF33026AAAA	CommScope 7839972	
Part No	CommScope P/N	
1AF24848ABAA		
1AF24848ACAA	CommScope MT500D	
408668911	6600D-2	
409072873	6600D-6	
409085255	6600D-4	
409085271	AE01D-D1658-100	
1AF24848ADAA	CommScope MT/HR-KIT-HUMIDITY	
Part No	CommScope P/N	
1AF10777AAAA	CommScope EW220	

1AF14580AAAA		
1AF14595AAAA	CommScope EWP64-71	
1AF33081AAAA	CommScope EWP90-107-10F230	
1AF33082AAAA	CommScope EWP90-107-10F430	
1AF33083AAAA	CommScope EWP90-107-10F260	
1AF33084AAAA	CommScope EWP90-107-10F320	
1AF33085AAAA	CommScope EWP90-107-10F500	
1AF33087AAAA	CommScope EWP90-107-10F180	
409073251		
409097649	CommScope EWP90-107	
1AD127790001		
1AF16733AAAA		
409084043	CommScope F137CCS3	
1AF33499AAAA		
1AD150040001	CommScope UA-3	
1AF33269AAAA	CommScope 241088	
3CC56455AC	Commscope VINTA-11W-AW1B	
3CC56455AF	Commscope VINTA-18-AW1B	
3CC57116AA	Commscope VINTX-11W-AUBTR	
3CC57119AA	Commscope VINTX-18-AUBTR	
409085453	CommScope D137CCSG	
1AF15943AAAA		
1AF16272AAAA		
1AF13733ABAA	CommScope EWP180-180	
409072832	F137CCS5	

402945372		
1AF16280AAAA		
1AF14480AAAF		
402059869	55001-137	
402093116	55001-90	
402167829	31771-4	
402662936	EW52	
405423773	42396A-8	
406936799	EW63	
407415645	EW90	
408781177	29958	
408985216	31768A	
409072758	F090CCB2	
409083920	42396A-7	
409084308	220498	
409085107	252SE	
409085370	39099-137	
409093101	190SE	
409085123	163SE	
900358177	24312A	
409084381	204673-1	
1AF13516AAAA	31769-1	
409072790	F137CCD2	
409073244	WGB4-52	
408948867	220497	
408944288	42396A-5	
409085388	39099-90	
409072832		
1AF15842AAAA		
1AF25570AAAA		
1AF25570ABAA		
409054814		
1AF15841AAAA	CommScope 112615-220	
405858168	CommScope SG12-06B2A	
1AF32173AAAA	EWP63-59W	
409073269	WGB4-90 (replaces 204679-90)	
3CC58220AA		
3CC58221AA		
3CC58223AA		
1AF30596AAAA		
1AF10776AAAA		

Wavence COMMSCOPE DIRECT MOUNT ANTENNA SYSTEMS
Description
Ant UBT dual band 2ft 15/80 DP/SP A.
Ant UBT dual band 2ft 18/80 DP/SP A.
Ant UBT dual band 2ft 23/80 DP/SP A.
Ant UBT Int 3ft 6 GHz SP A.
Ant UBT Int 3ft 6 GHz DP A.
Ant UBT Int 3ft DP 6 GHz (with OMT) A.
Ant int UBT 3ft class4 6GHz SP/DP A.
Ant UBT Int 4ft 6 GHz SP A.
Ant UBT Int 4ft 6 GHz DP A.
Ant UBT Int 4ft 6 GHz (with OMT) A.
Ant UBT Int 4ft 6 GHz SP/DP
Ant UBT Int 6ft 6 GHz SP A.
Ant UBT Int 6ft 6 GHz DP A.
Ant UBT Int 6ft 6 GHz (with OMT) A.
Ant UBT Int 2ft 10/11 GHz SP A.
Ant UBT Int 2ft 10/11 GHz DP A.
Ant UBT Int 2ft 11 GHz SP A.
Ant UBT Int 2ft 11 GHz DP A.

Ant UBT Int 2ft 11 GHz (with OMT) A.
Ant UBT Int 2ft DP 10/11 GHz (w/ OMT) A.
Ant UBT Int 3ft 10/11 GHz SP A.
Ant UBT Int 3ft 10/11 GHz DP A.
Ant UBT Int 3ft DP 10/11 GHz (w/ OMT) A.
Ant int UBT 3ft class4 11GHz SP/DP A.
Ant UBT Int 4ft 10/11 GHz SP A.
Ant UBT Int 4ft 10/11 GHz DP A.
Ant UBT Int 4ft 10/11 GHz (with OMT) A.
Ant int UBT 4ft class3+ 11GHz SP/DP A.
Ant UBT Int 6ft 10/11 GHz SP A.
Ant UBT Int 6ft 10/11 GHz DP A.
Ant UBT Int 6ft 10/11 GHz (with OMT) A.
Ant UBT Int 1ft 13 GHz SP A.
Ant UBT Int 1ft 13 GHz DP A.
Ant UBT Int 1ft DP 13 GHz (with OMT) A.
Ant UBT Int 2ft 13 GHz SP A.
Ant UBT Int 2ft 13 GHz DP A.
Ant UBT Int 2ft DP 13 GHz (with OMT) A.
Ant UBT Int 2ft 13 GHz SP A.
Ant UBT Int 2ft 13 GHz DP A.
Ant UBT Int 2ft 13 GHz (with OMT) A.
Ant int UBT 2ft class3+ 13GHz SP/DP A.
Ant UBT Int 3ft 13 GHz SP A.

Ant UBT Int 3ft 13 GHz DP A.
Ant UBT Int 3ft DP 13 GHz (with OMT) A.
Ant int UBT 3ft class4 13GHz SP/DP A.
Ant UBT Int 4ft 13 GHz SP A.
Ant UBT Int 4ft 13 GHz DP A.
Ant UBT Int 4ft DP 13 GHz (with OMT) A.
Ant int UBT 4ft class4 13GHz SP/DP A.
Ant UBT Int 6ft 13 GHz SP A.
Ant UBT Int 6ft 13 GHz DP A.
Ant UBT Int 6ft DP 13 GHz (with OMT) A.
Ant UBT Int 1ft 15 GHz SP A.
Ant UBT Int 1ft 15 GHz DP A.
Ant UBT Int 1ft DP 15 GHz (with OMT) A.
Ant UBT Int 2ft 15 GHz SP A.
Ant UBT Int 2ft 15 GHz DP A.
Ant UBT Int 2ft DP 15 GHz (with OMT) A.
Ant UBT Int 2ft 15 GHz SP A.
Ant UBT Int 2ft 15 GHz DP A.
Ant UBT Int 2ft 15 GHz (with OMT) A.
Ant int UBT 2ft class4 15GHz SP/DP A.
Ant UBT Int 3ft 15 GHz SP A.
Ant UBT Int 3ft 15 GHz DP A.
Ant UBT Int 3ft DP 15 GHz (with OMT) A.
Ant int UBT 3ft class4 15GHz SP/DP A.

Ant UBT Int 4ft 15 GHz SP A.
Ant UBT Int 4ft 15 GHz DP A.
Ant UBT Int 4ft DP 15 GHz (with OMT) A.
Ant int UBT 4ft class4 15GHz SP/DP A.
Ant UBT Int 6ft 15 GHz SP A.
Ant UBT Int 6ft 15 GHz DP A.
Ant UBT Int 6ft DP 15 GHz (with OMT) A.
Ant UBT Int 1ft 18 GHz SP A.
Ant UBT Int 1ft 18 GHz DP A.
Ant UBT Int 1ft DP 18 GHz (with OMT) A.
Microwave Antenna,18GHz,1FT,VHLPX1-18-2W
Ant UBT Int 2ft 18 GHz SP A.
Ant UBT Int 2ft 18 GHz DP A.
Ant UBT Int 2ft DP 18 GHz (with OMT) A.
Ant UBT Int 2ft 18 GHz SP A.
Ant UBT Int 2ft 18 GHz DP A.
Ant UBT Int 2ft 18 GHz (with OMT) A.
Ant int UBT 2ft class4 18GHz SP/DP A.
Ant UBT Int 3ft 18 GHz SP A.
Ant UBT Int 3ft 18 GHz DP A.
Ant int UBT 3ft class4 18GHz SP/DP A.
Ant UBT Int 4ft 18 GHz SP A.
Ant UBT Int 4ft 18 GHz DP A.
Ant UBT Int 6ft 18 GHz SP A.

Ant UBT Int 6ft 18 GHz DP A.
Ant UBT Int 3ft DP 18 GHz (with OMT) A.
Ant UBT Int 4ft DP 18 GHz (with OMT) A.
Ant UBT Int 6ft DP 18 GHz (with OMT) A.
Ant UBT Int 1ft 23 GHz SP A.
Ant UBT Int 1ft 23 GHz DP A.
Ant UBT Int 1ft DP 23 GHz (with OMT) A.
Ant int UBT 1ft class4 23GHz SP/DP A.
Ant UBT Int 2ft 23 GHz SP A.
Ant UBT Int 2ft 23 GHz DP A.
Ant UBT Int 2ft DP 23 GHz (with OMT) A.
Commscope VHLP2-23-BUBTR
Commscope VHLP2-23-BUBTC
Commscope VHLPX2-23-BUBTR
Ant int UBT 2ft class4 23GHz SP/DP A.
Commscope VHLP3-23-AUBTR
Commscope VHLP3-23-AUBTC
Commscope VHLP4-23-AUBTR
Commscope VHLP4-23-AUBTC
Commscope VHLP6-23-AUBTR
Commscope VHLP6-23-AUBTC
Commscope VHLPX3-23-AUBTR
Commscope VHLPX4-23-AUBTR
Commscope VHLPX6-23-AUBTR

Commscope SHP3-23-BUBTRC
Commscope VHLP1-26-AUBTR
Commscope VHLPX1-26-AUBTR
Commscope VHLP2-26-AUBTC
Ant int UBT 1ft class4 26GHz SP/DP A.
Commscope VHLP2-26-AUBTR
Commscope VHLP2-26-AUBTC
Commscope VHLPX2-26-AUBTR
Commscope VHLP2-26-BUBTR
Commscope VHLP2-26-BUBTC
Commscope VHLPX2-26-BUBTR
Ant int UBT 2ft class4 26GHz SP/DP A.
Commscope VHLP3-26-AUBTR
Commscope VHLP3-26-AUBTC
Commscope VHLPX3-26-AUBTR
Commscope SHP3-26-BUBTRC
Commscope VHLP4-26-AUBTR
Commscope VHLP4-26-AUBTC
Commscope VHLPX4-26-AUBTR
Ant UBT Int 1ft 28 GHz SP A.
Ant UBT Int 1ft 28 GHz DP A.
Ant int UBT 1ft class4 28GHz SP/DP A.
Ant UBT Int 2ft 28 GHz SP A.
Ant UBT Int 2ft 28 GHz DP A.

Ant UBT Int 1ft DP 28 GHz (with OMT) A.
Ant UBT Int 2ft DP 28 GHz (with OMT) A.
Ant UBT Int 2ft 28 GHz SP A.
Ant UBT Int 2ft 28 GHz DP A.
Ant UBT Int 2ft 28 GHz (with OMT) A.
Ant int UBT 2ft class4 32GHz SP/DP A.
Ant UBT Int 1ft 32 GHz SP A.
Ant UBT Int 1ft 32 GHz DP A.
Ant int UBT 1ft class4 32GHz SP/DP A.
Ant UBT Int 2ft 32 GHz SP A.
Ant UBT Int 2ft 32 GHz DP A.
Ant int UBT 2ft class4 32GHz SP/DP A.
Ant UBT Int 1ft DP 32 GHz (with OMT) A.
Ant UBT Int 2ft DP 32 GHz (with OMT) A.
Ant UBT Int 2ft 32 GHz SP A.
Ant UBT Int 2ft 32 GHz DP A.
Ant UBT Int 2ft 32 GHz (with OMT) A.
Ant UBT Int 1ft 38 GHz SP A.
Ant UBT Int 1ft 38 GHz DP A.
Ant int UBT 1ft class4 38GHz SP/DP A.
Ant UBT Int 2ft 38 GHz SP A.
Ant UBT Int 2ft 38 GHz DP A.
Ant UBT Int 1ft DP 38 GHz (with OMT) A.
Ant UBT Int 2ft DP 38 GHz (with OMT) A.

Ant UBT Int 2ft 38 GHz SP A.
Ant UBT Int 2ft 38 GHz DP A.
Ant UBT Int 2ft 38 GHz (with OMT) A.
Ant int UBT 2ft class4 38GHz SP/DP A.
Ant UBT Int 1ft 42 GHz SP A.
Ant UBT Int 1ft 42 GHz DP A.
Ant int UBT 1ft class4 42GHz SP/DP A.
Ant UBT Int 1ft DP 42 GHz (with OMT) A.
Ant UBT Int 2ft 42 GHz SP A.
Ant UBT Int 2ft 42 GHz DP A.
Ant UBT Int 2ft DP 42GHz (with OMT) A.
Ant UBT Int 2ft 42 GHz SP A.
Ant UBT Int 2ft 42 GHz DP A.
Ant UBT Int 2ft 42 GHz (with OMT) A.
Ant int UBT 2ft class4 42GHz SP/DP A.
Ant UBT Int 1ft 80 GHz SP A.
Ant UBT Int 1ft 80 GHz SP FCC A.
Ant UBT Int 2ft 80 GHz SP A.
Ant UBT Int 1ft DP 80 GHz (+ OMT) A.
Ant UBT Int 1ft DP 80 GHz (+ OMT) FCC A.
Ant UBT Int 2ft DP 80 GHz (with OMT) A.
Ant UBT Int 2ft 80 GHz SP A.
Ant UBT Int 2ft 80 GHz (with OMT) A.

Wavence COMMSCOPE NON-INTEGRATED ANTENNA SYSTEMS	
Description	
MW Ant, 6GHz, 3ft, DP (VHLPX3-6W-6WH/A)	
MW Ant 6GHz, 3ft, SP (VHLP3-6W-6WH/A)	
ANT VHLP4-6W-6WH/C 4FT 5.9-7.1 CPR137G	
VHLPX4-6W-6WH - 4' Hi Perf, Dual Pol A	
Microwave Antenna, 6GHz, HX6-6W-6GR	
ANT*HP_Ant_6GHz*1.8m*Dual_1.8d	
VHLP6-6W-6WH/B ANTEN 1.8M Pol-sing.	
Microwave Antenna, 6GHz, USX6-6W-6GR	
Microwave Antenna, 6GHz, SHPX4-6W-6WH	
MW Ant, HP, 6GHz,3ft,DP (SHPX3-6W-6WH/B)	
MW Ant,6GHz,6ft,DP,Low Prfle(LX6-6W-6GR)	
Microwave Antenna, 6GHz, 8Ft, HX8-6W-6GR	
Microwave Antenna, 6GHz, 8Ft,USX8-6W-6GR	
Microwave Antenna, 6GHz, USX10-6W-6GR	
Microwave Antenna, 6GHz, 10ft, HX10-6W-GR	
Microwave Ant, 6GHz, 12FT, USX12-6W-6GR	
MW Ant,11GHz,2ft,DP (VHLPX2-11W-6WH/B)	
MW Ant,11GHz,2ft,SP (VHLP2-11W-6WH/B)	
Ant HP 3ft DP 10.125-11.7GHz CPR90G	
VHLP3-11W-6WH/A-3' HP,SP,Radome NO strut	

MW Ant,11GHz,3ft,DP,HP (SHPX3-11W-6WH/B)
ANTENNA_4FT_HP_SP_11GHz_VHLP4-11W-6WH/A
ANTENNA_4FT_HP_DP_11GHz_VHLPX4-11W-6WH
Not Int. Ant. 4ft DP 11 GHz A.
MW Ant 11GHz, 4ft,DP, HP (SHPX4-11W-2WH)
MW Ant 11GHz, 6ft,DP/SP (USX6-11W-2GR)
Microwave Ant, 11GHz,4ft, SHPX4-11W-4WH
ValuLine Antenna 6ft, VHLP6-11W-6WH/A
Microwave Antenna, 11GHz, USX6-11W-6GR
Microwave Antenna, 11GHz, VHLPX6-11W-2WH/A
Microwave Antenna, 11GHz, VHLPX6-11W-6WH/A
Microwave Antenna, 11GHz, USX6-11W-4GR
Microwave Antenna, 11GHz, HX6-11W-4GR
Microwave Ant, 11GHz, 6ft
Microwave Antenna, 11GHz,8Ft,HX8-11W-6GR
Microwave Antenna,11GHz,8Ft,USX8-11W-6GR
Microwave Antenna,11GHz,10Ft,USX10-11W-6GR
Ant Not Int 2ft DP class4 15 GHz
MW Ant 15GHz,2ft, DP (VHLPX2-15-2WH/C)
MW Ant 15GHz,4ft, (VHLPX4-15-2WH/C)
MW Ant 15GHz, 8ft,DP/SP (USX8-15-2GR)
Microwave Antenna,18GHz,2FT,VHLPX2-18-3WH/D
Ant Not Int 2ft DP UHP 18GHz A.
Not Int. Ant. 4ft DP 18 GHz A.

Not Int 1ft DP UHP 23GHz A.
Microwave Antenna,23GHz,2FT,VHLPX2-23-3WH/D
Wavence COMMSCOPE Radomes and Sway Kits
Description
ANT ACC Highwind Kit for HX6/USX6 ant
ANT ACC Highwind Kit for HX8/USX8
Ant Acc HIGHWIND-Kit for 10/12ft USX/HX
Optional Strut Kit - USX8/HX8 & USX10 7819854
6 Ft MW Radome w/o Flash Commscope
Strut, INBOARD Kit - USX8/HX8
Wavence COMMSCOPE Dehydrator and Manifolds
Description
Dehydrator MT050C, 115/230 Vac, 50/60 Hz
DHYDR MT500D, 115/230 Vac, 50/60 Hz
2-Port Manifold, 0-15 PSI
6-PORT MANIFOLD, 0-15 PSISIX OUTLET GAS MANIFOLD
4-Port Manifold, 0-15 PSI
Dehydrator Wall Shelf, MT050/MT/XT300
Humidity Alarm Upgrade Kit for MT050C, M
Wavence COMMSCOPE Waveguide, Connectors and Associated Parts
Description
ELLIPTICAL WAVEGUIDE,-EW220 HELIAX, 21.2

Premium Elliptical Waveguide, EWP52-59 (5.925 – 6.425 GHz)
WAVEGUIDE EWP64-71 per mtr
WG 11GHz,one conn,230ft EWP90-107-10F230
WG 11GHz,one conn,430ft EWP90-107-10F430
WG 11GHz,one conn,260ft EWP90-107-10F260
WG 11GHz,one conn,320ft EWP90-107-10F320
WG 11GHz,one conn,500ft EWP90-107-10F500
WG 11GHz,one conn,180ft EWP90-107-10F180
4" Boot (WGB4-63) - for EW63
WAVGD-EWP90-107 PREM
Hanger Kit for EW180/EW220/EW240 (43211A) (10 pack)
Uwave accessory*FLEX TWIST 60cm CPR137G
FlexTwist-F137CCS3 36In, 6GHz
FlexTwist,WR42,PBR/UBR,900 mm (F042KMS3)
Universal Angle Adapters_UA-3
KIT-241088-1 INSTLN 2-HOLE GROUNDING KIT
MPT interface for Commscope 11 GHz ant.
MPT interface for Commscope 18 GHz ant.
OMT UBT 11 GHz stand-alone Commscope
OMT UBT 18 GHz stand-alone Commscope
KIT-D137CCSG INSTLN MICROWAVE WR137 90
Standard Elliptical Waveguide, EW180 (17.3 – 19.7 GHz)
Connector, Fixed-tuned / PBR220 for EW180 (top) (1180SCM)
WVE GDE ELLIPTICAL_19.7GHz_0Ohm 6dB
WR137 FLEX TWIST,1200 MM,CPR137G/CPR137G

Hoisting Grip (43094) - Lace-up (1/2" coax,EW180,EW220)
Pressure Window (112587) - mates to PBR220
FOR HL/C: 2' Twistflex (F042KKS2) - PBR220/PBR220 (Tin plated version is F042KKS2-A, \$191.25, No OI
PRESSURE WINDOW ASSEMBLY (CPR137) - WR137 PRESSURE WINDOW
Pressure Window
Ceiling Adapter Kit (Threaded rod kit)
Andrew EW52 Helix per foot
Hanger Kit
Andrew EW63 Helix per foot
Andrew EW90 Helix per foot
Hoisting Grip
Angle Member Adapter
2' Twistflex
Hanger Kit
1 5/8 Grounding Kit (EW52, EW63, EW64), 60: Field attach lug
Connector
Waveguide Termination
Connector
Connector, Tunable / CPR137G (bottom & top) (163SE)
Hoisting Grip (24312A) - Lace-up (1-5/8" coax,EW44,EW52,EW63)
Wall/Roof Feed Thru, 4" (204673-1) - 1 per boot
Hardware Kit- 3/8" x 1" for Hangers (31769-1) (10 pack)
2' Twistflex (F137CCD2) - CPR137G/CPR137G
4" Boot (WGB4-52) - for EW52
Grounding kit (220497) (5/8", 7/8" coax, EW85,90,127,132), 60", Field attach lug
Hanger Kit for EW90 / EW85 (42396A-5) (10 pack)
Waveguide Termination Load (39099-90) - CPR90G
WR137 FLEX TWIST,1200 MM,CPR137G/CPR137G
CPR137G & PDR70 Termination Load (VHLP) (112614-70)
SREW63-K Cushion Hanger kit (5) 1 hole
SREW632-K Cushion Hanger kit (5) 2 hole
CONN COAX-L4TNM-PS 50OHM N PLUG MALE ST*
Load Termination (RAM) / PBR220 load (can use on any Commscope antennas) (112615-220)
Grounding Kit, 24in wire, 1/2in coax, factory attach lug (Sureground Kit) (SG12-06B2A)
HELIAX Elliptical Waveguide, EWP63-59W
4" Boot (WGB4-90) - for EW90
load for unused port 38 GHz
load for unused port 18-25 GHz
load for unused port 11 GHz
4in boot assembly for elliptical waveguid
Uwave Accsy, 1220ASCM,-EW220 CONN, PBR22
END of COMMSCOPE ANTENNA SYSTEMS Price Catalog

Size (ft)	# Struts	NASPO ValuePoint MSRP	NASPO ValuePoint Discount %	NASPO ValuePoint Unit Price	
2	0	\$ 2,850.00	60.00%	\$1,140.00	Added 4/19/2022
2	0	\$ 2,850.00	60.00%	\$1,140.00	Added 4/19/2022
2	0	\$ 2,850.00	60.00%	\$1,140.00	Added 4/19/2022
3	0	\$ 2,109.00	60.00%	\$843.60	Added 4/19/2022
3	0	\$ 2,109.00	60.00%	\$843.60	Added 4/19/2022
3	1	\$ 2,830.50	60.00%	\$1,132.20	Added 4/19/2022
3	1	\$ 3,310.00	60.00%	\$1,324.00	Added 4/19/2022
4	0	\$ 2,802.75	60.00%	\$1,121.10	
4	0	\$ 2,802.75	60.00%	\$1,121.10	
4	0	\$ 3,718.50	60.00%	\$1,487.40	
4	1	\$ 9,623.00	60.00%	\$3,849.20	Added 5/15/2023
6	1	\$ 5,189.25	60.00%	\$2,075.70	
6	1	\$ 5,189.25	60.00%	\$2,075.70	
6	1	\$ 6,188.25	60.00%	\$2,475.30	
2	0	\$ 610.50	60.00%	\$244.20	
2	0	\$ 610.50	60.00%	\$244.20	
2	0	\$ 619.14	60.00%	\$247.66	Added 4/19/2022
2	0	\$ 619.14	60.00%	\$247.66	Added 4/19/2022

2	0	\$ 1,365.75	60.00%	\$546.30	Added 4/19/2022
2	0	\$ 1,332.00	60.00%	\$532.80	
3	0	\$ 1,498.50	60.00%	\$599.40	
3	0	\$ 1,498.50	60.00%	\$599.40	
3	0	\$ 2,220.00	60.00%	\$888.00	
3	0	\$ 3,168.00	60.00%	\$1,267.20	Added 4/19/2022
4	0	\$ 1,998.00	60.00%	\$799.20	
4	0	\$ 1,998.00	60.00%	\$799.20	
4	0	\$ 2,747.25	60.00%	\$1,098.90	
4	0	\$ 7,004.00	60.00%	\$2,801.60	Added 5/15/2023
6	0	\$ 4,900.00	60.00%	\$1,960.00	Added 4/19/2022
6	0	\$ 4,900.00	60.00%	\$1,960.00	Added 4/19/2022
6	0	\$ 5,900.00	60.00%	\$2,360.00	Added 4/19/2022
1	0	\$ 530.00	60.00%	\$212.00	Added 4/19/2022
1	0	\$ 530.00	60.00%	\$212.00	Added 4/19/2022
1	0	\$ 1,221.00	60.00%	\$488.40	Added 4/19/2022
2	0	\$ 610.50	60.00%	\$244.20	Added 4/19/2022
2	0	\$ 610.50	60.00%	\$244.20	Added 4/19/2022
2	0	\$ 1,332.00	60.00%	\$532.80	Added 4/19/2022
2	0	\$ 650.00	60.00%	\$260.00	Added 4/19/2022
2	0	\$ 650.00	60.00%	\$260.00	Added 4/19/2022
2	0	\$ 1,400.00	60.00%	\$560.00	Added 4/19/2022
2		\$ 2,986.00	60.00%	\$1,194.40	Added 5/15/2023
3		\$ 1,525.00	60.00%	\$610.00	Added 4/19/2022

3		\$ 1,525.00	60.00%	\$610.00	Added 4/19/2022
3		\$ 2,220.00	60.00%	\$888.00	Added 4/19/2022
3		\$ 3,168.00	60.00%	\$1,267.20	Added 4/19/2022
4		\$ 2,200.00	60.00%	\$880.00	Added 4/19/2022
4		\$ 2,200.00	60.00%	\$880.00	Added 4/19/2022
4		\$ 2,800.00	60.00%	\$1,120.00	Added 4/19/2022
4	0	\$ 6,896.00	60.00%	\$2,758.40	Added 5/15/2023
6		\$ 4,500.00	60.00%	\$1,800.00	Added 4/19/2022
6		\$ 4,500.00	60.00%	\$1,800.00	Added 4/19/2022
6		\$ 5,400.00	60.00%	\$2,160.00	Added 4/19/2022
1	0	\$ 530.00	60.00%	\$212.00	Added 4/19/2022
1	0	\$ 530.00	60.00%	\$212.00	Added 4/19/2022
1		\$ 1,221.00	60.00%	\$488.40	Added 4/19/2022
2	0	\$ 610.50	60.00%	\$244.20	Added 4/19/2022
2	0	\$ 610.50	60.00%	\$244.20	Added 4/19/2022
2		\$ 1,332.00	60.00%	\$532.80	Added 4/19/2022
2		\$ 650.00	60.00%	\$260.00	Added 4/19/2022
2		\$ 650.00	60.00%	\$260.00	Added 4/19/2022
2		\$ 1,400.00	60.00%	\$560.00	Added 4/19/2022
2		\$ 2,986.00	60.00%	\$1,194.40	Added 5/15/2023
3	0	\$ 1,525.00	60.00%	\$610.00	Added 4/19/2022
3	0	\$ 1,625.00	60.00%	\$650.00	Added 4/19/2022
3		\$ 2,220.00	60.00%	\$888.00	Added 4/19/2022
3		\$ 3,168.00	60.00%	\$1,267.20	Added 4/19/2022

4		\$ 2,100.00	60.00%	\$840.00	Added 4/19/2022
4		\$ 2,200.00	60.00%	\$880.00	Added 4/19/2022
4		\$ 2,800.00	60.00%	\$1,120.00	Added 4/19/2022
4		\$ 6,896.00	60.00%	\$2,758.40	Added 5/15/2023
6		\$ 4,500.00	60.00%	\$1,800.00	Added 4/19/2022
6		\$ 4,800.00	60.00%	\$1,920.00	Added 4/19/2022
6		\$ 5,400.00	60.00%	\$2,160.00	Added 4/19/2022
1	0	\$ 510.60	60.00%	\$204.24	
1	0	\$ 510.60	60.00%	\$204.24	
1	0	\$ 1,221.00	60.00%	\$488.40	
1	0	\$ 1,285.00	60.00%	\$514.00	
2	0	\$ 610.50	60.00%	\$244.20	
2	0	\$ 610.50	60.00%	\$244.20	
2	0	\$ 1,332.00	60.00%	\$532.80	
2		\$ 619.14	60.00%	\$247.66	Added 4/19/2022
2		\$ 619.14	60.00%	\$247.66	Added 4/19/2022
2		\$ 1,365.75	60.00%	\$546.30	Added 4/19/2022
2		\$ 2,986.00	60.00%	\$1,194.40	Added 5/15/2023
3	0	\$ 1,625.00	60.00%	\$650.00	Added 4/19/2022
3	0	\$ 1,800.00	60.00%	\$720.00	Added 4/19/2022
3		\$ 3,168.00	60.00%	\$1,267.20	Added 4/19/2022
4		\$ 1,998.00	60.00%	\$799.20	Added 4/19/2022
4		\$ 1,998.00	60.00%	\$799.20	Added 4/19/2022
6		\$ 4,384.50	60.00%	\$1,753.80	Added 4/19/2022

6		\$ 4,384.50	60.00%	\$1,753.80	Added 4/19/2022
3		\$ 2,220.00	60.00%	\$888.00	Added 4/19/2022
4		\$ 2,747.25	60.00%	\$1,098.90	Added 4/19/2022
6		\$ 5,217.00	60.00%	\$2,086.80	Added 4/19/2022
1	0	\$ 510.60	60.00%	\$204.24	
1	0	\$ 510.60	60.00%	\$204.24	
1	0	\$ 1,221.00	60.00%	\$488.40	
1		\$ 2,360.00	60.00%	\$944.00	Added 5/15/2023
2	0	\$ 610.50	60.00%	\$244.20	
2	0	\$ 610.50	60.00%	\$244.20	
2	0	\$ 1,332.00	60.00%	\$532.80	
2		\$ 619.14	60.00%	\$247.66	Added 4/19/2022
2		\$ 619.14	60.00%	\$247.66	Added 4/19/2022
2		\$ 1,365.75	60.00%	\$546.30	Added 4/19/2022
2		\$ 2,986.00	60.00%	\$1,194.40	Added 4/19/2022
3	0	\$ 1,498.50	60.00%	\$599.40	Added 4/19/2022
3	0	\$ 1,498.50	60.00%	\$599.40	Added 4/19/2022
4		\$ 1,998.00	60.00%	\$799.20	Added 4/19/2022
4		\$ 1,998.00	60.00%	\$799.20	
6		\$ 4,384.50	60.00%	\$1,753.80	Added 4/19/2022
6		\$ 4,384.50	60.00%	\$1,753.80	Added 4/19/2022
3		\$ 2,220.00	60.00%	\$888.00	Added 4/19/2022
4		\$ 2,747.25	60.00%	\$1,098.90	Added 4/19/2022
6		\$ 5,217.00	60.00%	\$2,086.80	Added 4/19/2022

3		\$ 3,168.00	60.00%	\$1,267.20	Added 4/19/2022
1		\$ 510.00	60.00%	\$204.00	Added 4/19/2022
1		\$ 1,221.00	60.00%	\$488.40	Added 4/19/2022
1		\$ 610.50	60.00%	\$244.20	Added 4/19/2022
1		\$ 2,360.00	60.00%	\$944.00	Added 5/15/2023
2		\$ 610.50	60.00%	\$244.20	Added 4/19/2022
2		\$ 610.50	60.00%	\$244.20	Added 4/19/2022
2		\$ 1,332.00	60.00%	\$532.80	Added 4/19/2022
2		\$ 619.14	60.00%	\$247.66	Added 4/19/2022
2		\$ 619.14	60.00%	\$247.66	Added 4/19/2022
2		\$ 1,365.75	60.00%	\$546.30	Added 4/19/2022
2		\$ 2,986.00	60.00%	\$1,194.40	Added 5/15/2023
3		\$ 1,498.50	60.00%	\$599.40	Added 4/19/2022
3		\$ 1,498.50	60.00%	\$599.40	Added 4/19/2022
3		\$ 2,220.00	60.00%	\$888.00	Added 4/19/2022
3		\$ 3,168.00	60.00%	\$1,267.20	Added 4/19/2022
4		\$ 1,998.00	60.00%	\$799.20	Added 4/19/2022
4		\$ 1,998.00	60.00%	\$799.20	Added 4/19/2022
4		\$ 2,747.25	60.00%	\$1,098.90	Added 4/19/2022
1		\$ 540.00	60.00%	\$216.00	Added 4/19/2022
1		\$ 540.00	60.00%	\$216.00	Added 4/19/2022
1		\$ 2,360.00	60.00%	\$944.00	Added 5/15/2023
2		\$ 650.00	60.00%	\$260.00	Added 4/19/2022
2		\$ 650.00	60.00%	\$260.00	Added 4/19/2022

1		\$ 1,300.00	60.00%	\$520.00	Added 4/19/2022
2		\$ 1,425.00	60.00%	\$570.00	Added 4/19/2022
2		\$ 700.00	60.00%	\$280.00	Added 4/19/2022
2		\$ 700.00	60.00%	\$280.00	Added 4/19/2022
2		\$ 1,525.00	60.00%	\$610.00	Added 4/19/2022
2		\$ 2,986.00	60.00%	\$1,194.40	Added 5/15/2023
1		\$ 540.00	60.00%	\$216.00	Added 4/19/2022
1		\$ 540.00	60.00%	\$216.00	Added 4/19/2022
1		\$ 2,360.00	60.00%	\$944.00	Added 5/15/2023
2		\$ 650.00	60.00%	\$260.00	Added 4/19/2022
2		\$ 650.00	60.00%	\$260.00	Added 4/19/2022
2		\$ 2,986.00	60.00%	\$1,194.40	Added 5/15/2023
1		\$ 1,300.00	60.00%	\$520.00	Added 4/19/2022
2		\$ 1,425.00	60.00%	\$570.00	Added 4/19/2022
2		\$ 700.00	60.00%	\$280.00	Added 4/19/2022
2		\$ 700.00	60.00%	\$280.00	Added 4/19/2022
2		\$ 1,525.00	60.00%	\$610.00	Added 4/19/2022
1		\$ 770.00	60.00%	\$308.00	Added 5/15/2023
1		\$ 565.00	60.00%	\$226.00	Added 4/19/2022
1		\$ 2,360.00	60.00%	\$944.00	Added 5/15/2023
2		\$ 610.50	60.00%	\$244.20	Added 4/19/2022
2		\$ 610.50	60.00%	\$244.20	Added 4/19/2022
1		\$ 1,300.00	60.00%	\$520.00	Added 4/19/2022
2		\$ 1,425.00	60.00%	\$570.00	Added 4/19/2022

2		\$ 619.14	60.00%	\$247.66	Added 4/19/2022
2		\$ 619.14	60.00%	\$247.66	Added 4/19/2022
2		\$ 1,456.80	60.00%	\$582.72	Added 4/19/2022
2		\$ 2,986.00	60.00%	\$1,194.40	Added 5/15/2023
1		\$ 566.10	60.00%	\$226.44	Added 4/19/2022
1		\$ 566.10	60.00%	\$226.44	Added 4/19/2022
1		\$ 2,360.00	60.00%	\$944.00	Added 5/15/2023
1		\$ 1,276.50	60.00%	\$510.60	Added 4/19/2022
2		\$ 677.10	60.00%	\$270.84	Added 4/19/2022
2		\$ 677.10	60.00%	\$270.84	Added 4/19/2022
2		\$ 1,443.00	60.00%	\$577.20	Added 4/19/2022
2		\$ 667.70	60.00%	\$267.08	Added 4/19/2022
2		\$ 667.70	60.00%	\$267.08	Added 4/19/2022
2		\$ 1,578.20	60.00%	\$631.28	Added 4/19/2022
2		\$ 2,986.00	60.00%	\$1,194.40	Added 5/15/2023
1	0	\$ 950.00	60.00%	\$380.00	Added 4/19/2022
1	0	\$ 1,250.00	60.00%	\$500.00	Added 4/19/2022
2	0	\$ 1,032.30	60.00%	\$412.92	
1	0	\$ 2,400.00	60.00%	\$960.00	Changed 4/19/2022
1	0	\$ 2,275.50	60.00%	\$910.20	
2	0	\$ 2,197.80	60.00%	\$879.12	
2	0	\$ 1,104.74	60.00%	\$441.90	Added 4/19/2022
2	0	\$ 2,306.60	60.00%	\$922.64	Added 4/19/2022

					Added 4/19/2022
Size (ft)	# Struts	NASPO ValuePoint MSRP	NASPO ValuePoint Discount %	NASPO ValuePoint Unit Price	
3	0	\$ 6,181.35	60.00%	\$2,472.54	Added 5/15/2023
3	0	\$ 5,349.75	60.00%	\$2,139.90	
4	0	\$ 6,447.00	60.00%	\$2,578.80	Added 5/15/2023
4	0	\$ 8,676.05	60.00%	\$3,470.42	
6	1	\$ 9,519.00	60.00%	\$3,807.60	Changed 5/15/2023
6	1	\$ 14,228.90	60.00%	\$5,691.56	
6	1	\$ 9,495.00	60.00%	\$3,798.00	
6	1	\$ 13,000.00	60.00%	\$5,200.00	
6	1	\$ 8,893.50	60.00%	\$3,557.40	Added 5/15/2023
6	1	\$ 4,735.50	60.00%	\$1,894.20	Added 5/15/2023
6	1	\$ 19,305.00	60.00%	\$7,722.00	Added 5/15/2023
8	1	\$ 13,000.00	60.00%	\$5,200.00	
8	1	\$ 17,000.00	60.00%	\$6,800.00	
10	2	\$ 24,500.00	60.00%	\$9,800.00	
10		\$ 19,500.00	60.00%	\$7,800.00	
12	2	\$ 31,250.00	60.00%	\$12,500.00	
2	0	\$ 2,633.30	60.00%	\$1,053.32	
2	0	\$ 1,801.75	60.00%	\$720.70	Added 4/19/2022
3	0	\$ 4,200.00	60.00%	\$1,680.00	
3	0	\$ 4,250.00	60.00%	\$1,700.00	

3	0	\$ 4,735.50	60.00%	\$1,894.20	Added 5/15/2023
4	0	\$ 6,575.00	60.00%	\$2,630.00	
4	0	\$ 6,573.00	60.00%	\$2,629.20	
4	0	\$ 8,676.05	60.00%	\$3,470.42	Added 5/15/2023
4	0	\$ 8,893.50	60.00%	\$3,557.40	Added 5/15/2023
4	0	\$ 13,629.60	60.00%	\$5,451.84	Added 5/15/2023
4	0	\$ 8,000.00	60.00%	\$3,200.00	Added 5/15/2023
6	1	\$ 9,514.00	60.00%	\$3,805.60	
6	1	\$ 13,000.00	60.00%	\$5,200.00	
6	1	\$ 14,388.70	60.00%	\$5,755.48	Added 5/15/2023
6	1	\$ 8,252.05	60.00%	\$3,300.82	Added 5/15/2023
6	1	\$ 34,452.00	60.00%	\$13,780.80	Added 5/15/2023
6	1	\$ 9,500.00	60.00%	\$3,800.00	Added 5/15/2023
6		\$ 7,700.00	60.00%	\$3,080.00	Added 4/5/2022
8	1	\$ 13,000.00	60.00%	\$5,200.00	Added 4/19/2022
8	1	\$ 17,000.00	60.00%	\$6,800.00	
10	2	\$ 25,382.00	60.00%	\$10,152.80	Added 5/15/2023
2	0	\$ 2,425.50	60.00%	\$970.20	Added 5/15/2023
2	0	\$ 2,150.00	60.00%	\$860.00	Added 5/15/2023
4	1	\$ 4,260.15	60.00%	\$1,704.06	Added 5/15/2023
8		\$ 16,907.50	60.00%	\$6,763.00	Added 5/15/2023
2	0	\$ 2,633.30	60.00%	\$1,053.32	Added 5/15/2023
2	0	\$ 1,395.00	60.00%	\$558.00	Added 5/15/2023
4		\$ 4,260.00	60.00%	\$1,704.00	Added 5/15/2023

1	0	\$ 900.00	60.00%	\$360.00	Added 5/15/2023
2	0	\$ 2,633.30	60.00%	\$1,053.32	Added 5/15/2023
					Added 4/19/2022
		NASPO ValuePoint MSRP	NASPO ValuePoint Discount %	NASPO ValuePoint Unit Price	Added 4/19/2022
		\$ 1,950.00	60.00%	\$780.00	Added 4/19/2022
		\$ 2,650.00	60.00%	\$1,060.00	Added 4/19/2022
		\$ 2,678.05	60.00%	\$1,071.22	Added 5/15/2023
		\$ 1,277.50	60.00%	\$511.00	Moved 4/19/2022
		\$ 2,050.00	60.00%	\$820.00	Added 4/19/2022
		\$ 625.00	60.00%	\$250.00	Added 4/19/2022
					Added 4/19/2022
		NASPO ValuePoint MSRP	NASPO ValuePoint Discount %	NASPO ValuePoint Unit Price	Added 4/19/2022
		\$ 11,750.00	60.00%	\$4,700.00	Changed 5/15/2023
		\$ 13,660.00	60.00%	\$5,464.00	Added 5/15/2023
		\$ 573.00	60.00%	\$229.20	
		\$ 1,119.00	60.00%	\$447.60	
		\$ 804.00	60.00%	\$321.60	
		\$ 561.00	60.00%	\$224.40	
		\$ 1,855.00	60.00%	\$742.00	Added 5/15/2023
					Added 4/19/2022
		NASPO ValuePoint MSRP	NASPO ValuePoint Discount %	NASPO ValuePoint Unit Price	Added 4/19/2022
		\$ 32.25	60.00%	\$12.90	Added 4/19/2022

		\$ 63.50	60.00%	\$25.40	Moved 4/19/2022
		\$ 175.00	60.00%	\$70.00	Added 4/19/2022
		\$ 12,500.00	60.00%	\$5,000.00	Added 4/19/2022
		\$ 22,000.00	60.00%	\$8,800.00	Added 4/19/2022
		\$ 14,000.00	60.00%	\$5,600.00	Added 4/19/2022
		\$ 16,750.00	60.00%	\$6,700.00	Added 4/19/2022
		\$ 25,500.00	60.00%	\$10,200.00	Added 4/19/2022
		\$ 10,100.00	60.00%	\$4,040.00	Added 4/19/2022
		\$ 160.20	60.00%	\$64.08	
		\$ 40.50	60.00%	\$16.20	Added 4/19/2022
		\$ 56.90	60.00%	\$22.76	Moved 4/19/2022
		\$ 958.75	60.00%	\$383.50	Moved 4/19/2022
		\$ 1,100.00	60.00%	\$440.00	Added 4/19/2022
		\$ 1,116.10	60.00%	\$446.44	Added 5/15/2023
		\$ 240.00	60.00%	\$96.00	Added 4/19/2022
		\$ 98.00	60.00%	\$39.20	Added 4/19/2022
		\$ 560.00	60.00%	\$224.00	Added 4/19/2022
		\$ 560.00	60.00%	\$224.00	Added 4/19/2022
		\$ 900.00	60.00%	\$360.00	Added 4/19/2022
		\$ 900.00	60.00%	\$360.00	Added 4/19/2022
		\$ 960.00	60.00%	\$384.00	Added 4/19/2022
		\$ 34.80	60.00%	\$13.92	Added 5/15/2023
		\$ 554.40	60.00%	\$221.76	Added 5/15/2023
		\$ 30.00	60.00%	\$12.00	Added 5/15/2023
		\$ 1,363.00	60.00%	\$545.20	

		\$ 61.40	60.00%	\$24.56	
		\$ 190.00	60.00%	\$76.00	
(Code)		\$ 725.00	60.00%	\$290.00	
		\$ 101.77	60.00%	\$40.71	
		\$ 204.61	60.00%	\$81.84	
		\$ 146.87	60.00%	\$58.75	
		\$ 35.85	60.00%	\$14.34	
		\$ 85.00	60.00%	\$34.00	Changed 5/15/2023
		\$ 27.96	60.00%	\$11.18	
		\$ 25.22	60.00%	\$10.09	
		\$ 74.18	60.00%	\$29.67	
		\$ 200.00	60.00%	\$80.00	
		\$ 1,125.00	60.00%	\$450.00	
		\$ 80.00	60.00%	\$32.00	Changed 5/15/2023
		\$ 100.00	60.00%	\$40.00	Changed 5/15/2023
		\$ 1,175.00	60.00%	\$470.00	Changed 5/15/2023
		\$ 207.90	60.00%	\$83.16	
		\$ 820.00	60.00%	\$328.00	Changed 4/19/2022
		\$ 680.00	60.00%	\$272.00	Changed 5/15/2023
		\$ 97.00	60.00%	\$38.80	
		\$ 86.42	60.00%	\$34.57	
		\$ 34.00	60.00%	\$13.60	Changed 4/19/2022
		\$ 1,250.00	60.00%	\$500.00	
		\$ 160.20	60.00%	\$64.08	
		\$ 109.73	60.00%	\$43.89	
		\$ 67.13	60.00%	\$26.85	
		\$ 186.58	60.00%	\$74.63	
		\$ 1,045.00	60.00%	\$418.00	
		\$ 685.00	60.00%	\$274.00	
		\$ 199.75	60.00%	\$79.90	
		\$ 225.00	60.00%	\$90.00	Changed 4/19/2022
		\$ 49.80	60.00%	\$19.92	
		\$ 415.00	60.00%	\$166.00	Added 4/19/2022
		\$ 45.10	60.00%	\$18.04	Added 4/19/2022
		\$ 59.00	60.00%	\$23.60	Changed 5/15/2023
		\$ 160.20	60.00%	\$64.08	
		\$ 405.00	60.00%	\$162.00	Added 5/15/2023
		\$ 405.00	60.00%	\$162.00	Added 5/15/2023
		\$ 405.00	60.00%	\$162.00	Added 5/15/2023
		\$ 95.00	60.00%	\$38.00	Added 5/15/2023
		\$ 814.25	60.00%	\$325.70	Added 5/15/2023



Antenna Systems

Part No	Manufacture P/N	Frequency Band
409081635	Valmont	
1AF29408AAAA	Valmont	
1AF26069AAAA	Valmont	
1AF29407AAAA	Valmont	
1AF29406AAAA	Valmont	
409082377	Valmont	
409085024		
3CC50097AB	VISTA	
1AF25375AAAA	Valmont	
1AC014320002	TMS LMR-400	
1AB095530045	TMS	
1AB095530046	TMS	
1AB383930001	TMS	
1AB350440001	TMS	
409081593	Valmont	
409081601	Valmont	
409081619	Valmont	
1AF19234AAAA	Valmont	
409108073	Valmont	
1AF24588AAAA	Valmont	
1AF24589AAAA	Valmont	
1AF24587AAAA	Valmont	
1AF24586AAAA	Valmont	
1AF28451AAAA	Valmont	
1AF03676ABAA	Valmont	
1AF22298AAAA	Valmont	
409081494	Valmont	
1AF25795AAAA	Valmont	
1AF07352AEAA	Valmont	
1AF25968AAAA	Valmont	
1AF07352AGAA	Valmont	
1AD082220001	Valmont	
1AF26057AAAA	Valmont	
1AF26056AAAA	Valmont	
409117462	Valmont	

1AF03676AAAA	Valmont	
409081510	Valmont	
1AD219620001	Valmont	



WAVENCE MICROWAVE NON-INTEGRATED ANTENNA SYSTEMS

Description	Size (ft)
Waveguide, Connectors and Associated Parts	
UNIV ADJ LEG MT- UP TO 10 3/4 LEG (Ant. Pipe Mount/Ice Shield)	
Non-Penetrating Tripod (TRPD1 / TRPD-HD)	
4-1/2" x 126" Mast Pipe (P4126)	
1/2"x18"x48" Rubber Mat (6 Required) (MAT18)	
Ballast Tie Down Kit (3 Required) (BHD-K)	
BOOT-BAZERO PROT RUB 4IN 4IN BK	
Cable, 25-pr, Conn -Conn, 25, RTU -66 Blk	
Fiber storage -pole/wall mount (100m) GR3108	
Hanger Kit with three holes for EW90 wav	
Times Microwave Systems (TMS) LMR Parts and Accessories	
LMR400 (HS: 2 runs, NS: 1 run) + (if non-integ, dual pol and 2 channels: 2 runs) (TMS)	
PPC Connector (compression) - straight male (3 per LMR run) (TMS)	
PPC Connector (compression) - straight female (1 per LMR run) (TMS)	
PPC Compression Tool (1 per deployment) (TMS)	
LMR grounding kit (GKS400TT) (TMS)	
SitePro1 (Valmont) Ice Shields, Tieback Steel, Parts and Accessories	
Valmont flat Ice Shield - 4ft (ISMD4, 800250) ADD PIPE MOUNT	
Valmont flat Ice Shield - 6ft (ISMD6, 800251) ADD PIPE MOUNT	
Valmont flat Ice Shield - 8ft (ISMD8, 800252) ADD PIPE MOUNT AND WELDMENT	
Valmont flat Ice Shield - 10ft (ISMD10, 800253) ADD PIPE MOUNT AND WELDMENT	
Valmont Pipe Mount Extension weldment for Ice Shields (PME2, B1935)	
Valmont ice shield KIT - 4ft (ISMD4-R5LL = 800250 (ice shield) + 409081365 (leg mount))	
Valmont ice shield KIT - 6ft (ISMD6-R5LL = 800251 (ice shield) + 409081365 (leg mount))	
Valmont ice shield KIT - 8ft (ISMD8-R5LL = 800252 (ice shield) + 409081365 (leg mount))	
Valmont ice shield KIT - 10ft (ISMD10-R5LL = 800253 (ice shield) + 409081365 (leg mount))	
Tieback Steel - Bulk Angle 4" X 4" X 1/4" x 20' (ANG414) - (1 per antenna)	
Bulk Pipe (for pipe mount) - 4 1/2" x 72" (Valmont: P472)	
4 1/2" Universal Ring Mount (Valmont: 801068, LWRM) - PREFERRED - 1 required for 3' or smaller antennas	
MTG-B1656 BRKT 0IN 0IN 0IN STL CHN MNT *	
FLUSH MOUNT ADAPTER DUAL LEVEL	
HD Chain Mount with Stiff Arm (Valmont: B1649 + B1656, DCH8) NOT PREFERRED - 3 chains in kit, only	
Universal Tubular-Arm Pipe Mount (Face Mount) (TAP-472)	
1/2in Stainless Steel Banding Buckles (for monopole) (Valmont: BU254) - per 25	
Bulk Pipe (for pipe mount) - 2-3/8in x 126in (Valmont: P2126)	
Hollow Wall Anchor Kit (HWK58)	
Solid Wall Anchor Kit (SWK58)	
Universal Pipe Mount (No Pipe) R5-UP - Accepts Mounting Pipes 1-1/2" to 4-1/2"	

Two Slider Brackets Wall Mount w/ Hardware (4 1/2in) (SBWM-412)	
SitePro1 (Valmont) Misc. Microwave Parts and Accessories	
LMR Cushion Hanger (4 hole) - (Valmont: B1676, SRLR44-K) - complete with clamp and clamp head (5 per pack)	
Brl Cushion_1-5/8,10 Hole Q=10 (BC1410X)	

END of NON-INTEGRATED ANTENNA SYSTEMS Price Catalog

# Struts	NASPO ValuePoint MSRP	NASPO ValuePoint Discount %	NASPO ValuePoint Unit Price	
	\$ 2,116.00	55%	\$952.20	Updated 4/19/2022
	\$ 4,354.00	55%	\$1,959.30	Updated 4/19/2022
	\$ 975.00	55%	\$438.75	
	\$ 97.00	55%	\$43.65	
	\$ 171.80	55%	\$77.31	
	\$ 80.20	55%	\$36.09	
	\$ 425.20	55%	\$191.34	
	\$ 319.26	55%	\$143.67	
	\$ 136.75	55%	\$61.54	
	\$ 11.00	55%	\$4.95	Updated 4/19/2022
	\$ 100.00	55%	\$45.00	
	\$ 88.00	55%	\$39.60	Updated 4/19/2022
	\$ 2,400.00	55%	\$1,080.00	Updated 4/19/2022
	\$ 141.75	55%	\$63.79	
	\$ 4,554.00	55%	\$2,049.30	
	\$ 6,050.00	55%	\$2,722.50	
	\$ 7,634.00	55%	\$3,435.30	
	\$ 9,526.00	55%	\$4,286.70	
	\$ 686.40	55%	\$308.88	
	\$ 6,468.00	55%	\$2,910.60	
	\$ 7,920.00	55%	\$3,564.00	
	\$ 9,455.60	55%	\$4,255.02	
	\$ 11,290.40	55%	\$5,080.68	
	\$ 1,219.00	55%	\$548.55	
	\$ 925.00	55%	\$416.25	update 2/18/2021 Updated 4/19/2022
	\$ 3,500.00	55%	\$1,575.00	Updated 4/19/2022
	\$ 925.00	55%	\$416.25	Updated 4/19/2022
	\$ 747.00	55%	\$336.15	
1 kit needed per anter	\$ 3,200.00	55%	\$1,440.00	Updated 4/19/2022
	\$ 2,979.90	55%	\$1,340.96	
	\$ 47.82	55%	\$21.52	
	\$ 243.00	55%	\$109.35	
	\$ 139.80	55%	\$62.91	add 2/18/2021
	\$ 134.75	55%	\$60.64	add 2/18/2021
	\$ 1,333.20	55%	\$599.94	add 2/18/2021

	\$ 655.60	55%	\$295.02
ackage)	\$ 107.60	55%	\$48.42
	\$ 111.70	55%	\$50.27

add 2/18/2021

Updated 2/18/2021

add 1-6-2022





Part No	Description	Spare
694-9000-006	Standard Rack, 7' tall, 19" wide	-N-
1AD014120046	Seismic Rack, 7.0'	-N-
690-1125-003	Rack Extension Kit - 19" rack	-N-
3EM13317AB	Power Distribution Panel with F	-N-
3EM13317AC	Power Distribution Panel with R	-N-
695-1001-007	Seismic Rack Screw Kit	N
695-0905-003	Standard Rack, 7' tall, 23" wide	-N-
694-8873-005	Adapters for 23", 2 RU (PDU tw	-N-
3MU00079AB	9500-MPR Flx16WS-2-MSS	-N-
1AD165490001	Kit, 1/2-13 hardware, FTCS, C	-N-
3MU00128AA	Flex25 Pole Mount Kit	-N-
1AD165480001	LIFT BOLTS 1/2-9412-	-N-
1AB404960001	DS1 Circuit Protection - RH33250	-N-
3CC52216AB	Fan Alarm Cable 15m	-N-
3DB05594AA	AUX Cable for Housekeeping	-N-
3EM24040AA	MPT-HL - Air Filter (Spare)	N
3DB18236AB	AUX Housekeeping	-Y-
3DB18735AA	2xOC3 Module	-Y-
3EM09257AA	Fiber Management Panel	-N-
3DB17021TFAA	Wavence 20A MP1 Secure uSD-	-N-
3EM24226AHA	FIPS - Configuration Certificatio	N
3EM23141AA	SFP-Copper Cable, 0.5-M	-N-
3EM23141AB	SFP-Copper Cable, 1.0-M	-N-
1AF15245AB	32-E1/T1 Protection Panel - RJ45	-N-
3EM23110AA	8-DS1 Cable Assembly (D-Open)	-N-
3DB76116AA	L6-GHz, 60-MHz - Hot Standby 1	-N-
3DB76188AA	RF Diplexer Filter Xmt 5925-615	-N-
3DB76189AA	RF Diplexer Filter Xmt 6175-645	-N-
3DB76190AA	RF Diplexer Space Diversity Filt	-N-
3DB76191AA	RF Diplexer Space Diversity Filt	-N-
3EM23511AW	11-GHz Trans Kit A4' FDTransit	-N-
3EM24123AL	Stacking Filter Add-on Xmt & R	-N-
3EM24123AM	Stacking Filter 6-GHz Freq Div A	-N-
3EM24197AA	6-GHz WAVEGUIDE, STRAIGH	-N-
3EM24197AB	6-GHz WAVEGUIDE, STRAIGH	-N-
3EM24191AA	6-GHz E-E BEND WAVEGUIDE	-N-
3EM24191AB	6-GHz E-E BEND WAVEGUIDE	-N-
3EM24197AC	6-GHz WAVEGUIDE, STRAIGH	-N-
3EM24190AA	6-GHz E-E-H-H BEND WAVEG	-N-
3EM24190AB	6-GHz E-E-H-H BEND WAVEG	-N-
3EM24190AD	6-GHz E-E-H-H BEND WAVEG	-N-

Part Number	Model	Frequency Band
~~10038135~~	~~SC3-W60AMPT~~	~~5925-7125~~
~~10042012~~	~~SCX3-W60AMPT~~	~~5925-7125~~
~~10044144~~	~~SB4-W60DMPT~~	~~5925-7125~~
~~10044445~~	~~SB4-W60D3MPT~~	~~5925-7125~~
~~10044581~~	~~SBX4-W60DMPT~~	~~5925-7125~~
~~10041047~~	~~SB6-W60CMPT~~	~~5925-7125~~
~~10042451~~	~~SB6-W60C2MPT~~	~~5925-7125~~
~~10041951~~	~~SBX6-W60CMPT~~	~~5925-7125~~
~~10039091~~	~~SC2-W100BMPT~~	~~10000-11700~~
~~10039144~~	~~SCX2-W100BMPT~~	~~10000-11700~~
~~10038136~~	~~SC3-W100AMPT~~	~~10700-11700~~
~~10039907~~	~~SCX3-W100AMPT~~	~~10000-11700~~
~~10044145~~	~~SB4-W100DMPT~~	~~10000-11700~~
~~10044601~~	~~SBX4-W100DMPT~~	~~10000-11700~~
~~10041049~~	~~SB6-W100CMPT~~	~~10000-11700~~
~~10041952~~	~~SBX6-W100CMPT~~	~~10000-11700~~
~~10039150~~	~~SCX2-220BMPT~~	~~21200-23600~~
~~10046209~~	~~SC3-W60BUBTR~~	~~5,925-7,125~~
~~10046179~~	~~SB4-W60E3UBTR~~	~~5,925-7,125~~
~~10046161~~	~~SC1-127AUBTR~~	~~12,75-13,25~~
~~10046170~~	~~SC1-127AUBTG~~	~~12,75-13,25~~
~~10046888~~	~~SC2-127CUBTG~~	~~12,75-13,25~~
~~10046182~~	~~SB4-127EUBTR~~	~~12,75-13,25~~
~~10046198~~	~~SB6-127D2UBTR~~	~~12,75-13,25~~
~~10046162~~	~~SC1-142AUBTR~~	~~14,2-15,35~~
~~10046171~~	~~SC1-142AUBTG~~	~~14,2-15,35~~

10046213	SC3-142BUBTR	14,2-15,35
10046221	SC3-142BUBTG	14,2-15,35
10046183	SB4-142EUBTR	14,2-15,35
10046199	SB6-142D2UBTR	14,2-15,35
10046206	SB6-142D2UBTG	14,2-15,35
10046172	SC1-190AUBTG	17,7-19,7
10046164	SC1-220AUBTR	21,2-23,6
10046173	SC1-220AUBTG	21,2-23,6
10046215	SC3-220BUBTR	21,2-23,6
10046223	SC3-220BUBTG	21,2-23,6
10046193	SB4-220EUBTG	21,2-23,6
10046201	SB6-220D2UBTR	21,2-23,6
10046208	SB6-220D2UBTG	21,2-23,6
10046165	SC1-250AUBTR	24,25-26,5
10046174	SC1-250AUBTG	24,25-26,5
10046880	SC2-250CUBTR	24,25-26,5
10046892	SC2-250CUBTG	24,25-26,5
10046216	SC3-250BUBTR	24,25-26,5
10046224	SC3-250BUBTG	24,25-26,5
10046186	SB4-250EUBTR	24,25-26,5
10046194	SB4-250EUBTG	24,25-26,5
10046166	SC1-280AUBTR	27,5-29,5
10046175	SC1-280AUBTG	27,5-29,5
10046881	SC2-280CUBTR	27,5-29,5
10046834	SC2-280CUBTG	27,5-29,5
10046168	SC1-380AUBTR	37,0-39,5
10046177	SC1-380AUBTG	37,0-39,5
10046884	SC2-380CUBTR	37,0-39,5
10046836	SC2-380CUBTG	37,0-39,5
10046169	SC1-420AUBTR	40,5-43,5
10046178	SC1-420AUBTG	40,5-43,5
10046885	SC2-420CUBTR	40,5-43,5
10046837	SC2-420CUBTG	40,5-43,5
10046957	SB1-W800CUBT-FCC	71-86
10046955	SB1-W800CUBT	71-86
10047070	SBX1-W800CUBT	71-86
10048893	SBX1-W800CUBT-FCC	71-86
10046956	SC2-W800BUBT	71-86
10047071	SCX2-W800BUBT	71-86

	MCS-11 + TL1 Software	
3EM16790BF	Server License, 24 NE Ltd, MCS/TL1	
3EM16790BG	Server License, 32 NE Ltd, MCS/TL1	
3EM16790BH	Server License, 64 NE Ltd, MCS/TL1	
3EM16790BJ	Server License, 128 NE Ltd, MCS/TL1	
3EM16790FU	Server License, 256 NE Ltd, MCS-11/TL1	
3EM16790FP	Server License, 512 NE Ltd, MCS-11/TL1	
3EM16790BK	Server License, 1024 NE, MCS-11/TL1	
3EM16790JL	TSM-8000 Version 21.0 Upgrade	
3EM18968BF	Model 2311, SNMP Alarm Encoder	
3EM18968BG	Model 2311, SNMP Alarm Encoder with analog output	
3EM18968DU	Model 2314, SNMP Alarm Encoder	

10036116	SPF2-52CN1S1R	5.25-5.85
37400112	SPF6-52CN	5.25-5.85
37400113	SPF6-52CN1S1R	5.25-5.85
10036179	PADX10-W57AC1S1R	5.725-6.875
10036753	PADX6-W57AC7S1R	5.725-6.875
10036754	PADX8-W57AC7S1R	5.725-6.875
10037381	UXA6-W57AC7	5.725-6.875
10037382	UXA8-W57AC7	5.725-6.875
10037383	UXA10-W57AC7	5.725-6.875
10038202	PADX8-W57AC7SGR	5.725-6.875
10046461	PA4-W57DC1S1R	5.725-6.875
37400097	PAD6-W57BC7S1R	5.725-6.875
37500079	PAD8-W57AC7S1R	5.725-6.875
10027932	DA8-W57AC1S1	5.725-6.875
10050613	DA8-W57AC1SG	5.725-6.875
10038231	PADX6-U57AC7S1R	5.725-7.125
10038232	PADX8-U57AC7S1R	5.725-7.125
10038233	PADX10-U57AC7S1R	5.725-7.125
10038274	UXA6-U57AC7	5.725-7.125
10038276	UXA8-U57AC7	5.725-7.125
10038461	PADX6-U57AC1SGR	5.725-7.125
10038464	UXA6-U57AC1SG	5.725-7.125
10039971	UXA10-U57AC7	5.725-7.125
10025486	DA8-59AC	5.925-6.425
10025500	DAX8-59AC	5.925-6.425
10025681	DAX12-59AC	5.925-6.425
10027913	DA12-59AC	5.925-6.425
10036822	UXA6-59CC	5.925-6.425
10036823	UXA8-59BC	5.925-6.425
10036824	UXA10-59BC	5.925-6.425
10038951	UXA8-59BC1SG	5.925-6.425
10041161	UXA12-59AC4	5.925-6.425
10045664	DA12-59AC1SG	5.925-6.425
10047242	SU6-59BC2	5.925-6.425
37400100	PAD6-59BC7S1R	5.925-6.425
37500031	PAD8-59AC	5.925-6.425
37500055	PAD8-59AC1S1R	5.925-6.425
37500069	PADX8-59AC1S1R	5.925-6.425
37500082	PAD8-59AC7S1R	5.925-6.425
37600032	PAD10-59AC1S1	5.925-6.425
37600051	PAD10-59AC1S1R	5.925-6.425
10036720	UXA6-W59BC7	5.925-6.875
10036721	UXA8-W59AC7	5.925-6.875
10040920	UXA6W59ACTF4HGWKT1	5.925-6.875
10040923	UXA8W59ACTF4HGWKT2	5.925-6.875
10043090	PADX6-W59BC7S1R	5.925-6.875
37400102	PAD6-W59BC7S1R	5.925-6.875
37400155	PADX6-W59BC1S1R	5.925-6.875
37500025	UXA8-W59AC	5.925-6.875
37500059	PAD8-W59AC1S1R	5.925-6.875
37500084	PAD8-W59AC7S1R	5.925-6.875
37500138	PADX8-W59AC7S1R	5.925-6.875
37600055	UXA10-W59AC	5.925-6.875
37700040	UXA12-W59AC	5.925-6.875
10045572	SUX4B-W60DC1SG	5.925-7.125

10049627	SB4-W60EC	5.925-7.125
10049629	SBX4-W60EC	5.925-7.125
10049631	SB6-W60DC2	5.925-7.125
10049633	SBX6-W60DC2	5.925-7.125
10050119	SC3-W60BC	5.925-7.125
10050120	SCX3-W60BC	5.925-7.125
10050366	SB4-W60EC2	5.925-7.125
10025520	DA8-65AC	6.425-7.125
10025535	UXA8-65AC	6.425-7.125
10031083	UXA6-65BD	6.425-7.125
10032346	SUX6-65BC	6.425-7.125
10032475	UXA6-65BC	6.425-7.125
10036663	PAD10-65AC7S1R	6.425-7.125
10036722	PAD6-65BC7	6.425-7.125
10043088	PAD6-65BC7S1R	6.425-7.125
10043089	PAD8-65AC7S1R	6.425-7.125
37400161	PAD6-65BC1SGR	6.425-7.125
37500133	PAD8-65AC1SGR	6.425-7.125
10049683	SC2-W100CC	10.0-11.7
10049685	SCX2-W100CC	10.0-11.7
10049692	SC3-W100BC	10.0-11.7
10049695	SCX3-W100BC	10.0-11.7
10049698	SB4-W100EC	10.0-11.7
10049701	SBX4-W100EC	10.0-11.7
10050547	SU4-107DC0	10.0-11.7
10049704	SB6-W100DC2	10.0-11.7
10049707	SBX6-W100DC2	10.0-11.7
10050364	SB4-W100EC2	10.0-11.7
10050365	SBX4-W100EC2	10.0-11.7
10050368	SCX3-W100BC8	10.0-11.7
10050373	SCX3-W100BC-MODG	10.0-11.7
10011716	UXA8-107AD	10.7-11.7
10011719	UXA10-107AD	10.7-11.7
10025551	UXA8-107AC	10.7-11.7
10025552	DAX8-107AC	10.7-11.7
10031625	UXA6-107BC	10.7-11.7
10031452	UXA6-107BC1SG	10.7-11.7
10031862	SU6-107BC	10.7-11.7
10032174	SUX6-107BC	10.7-11.7
10034124	SU6-107BC2	10.7-11.7
10036307	SUX3-107BFC1SG	10.7-11.7
10036350	SU6-107BC7	10.7-11.7
10040922	UXA6107BDTF4HGWKT4	10.7-11.7
10044370	SU4-107DD	10.7-11.7
10044372	SU4-107DC	10.7-11.7
10044375	SUX4-107DC	10.7-11.7
10044416	UXA4-107DD	10.7-11.7
10044417	UXA4-107DC	10.7-11.7
10045205	UXA4-107DC1SG	10.7-11.7
10045206	SU4-107DC1SG	10.7-11.7
10045207	SUX4-107DC1SG	10.7-11.7
10045212	SU4-107DC2	10.7-11.7
10045244	SUX4-107DC7	10.7-11.7
10045245	SUX4-107DC7SG	10.7-11.7
10045451	UXA10-107AC8SG	10.7-11.7

10045860	SUX4-107DC2H	10.7-11.7
10047243	UA8-107AC2	10.7-11.7
10049853	UXA6-107BC1SM	10.7-11.7
10030822	UXA6-107BD1S1-	10.7-11.7
37600089	UXA8-107AC7SG	10.7-11.7
10047770	SBX4-127EB	12.7-13.25
10030680	UXA6-142BB	14.2-15.35
10047771	SBX4-142EB	14.2-15.35
10044324	UXA4-142DB	14.2-15.35
10046714	SCX2-142CB	14.2-15.35
10046704	SC2-190CB	17.7-19.7
10046715	SCX2-190CB	17.7-19.7
10047707	SC3-190BB	17.7-19.7
10047764	SCX3-190BB	17.7-19.7
10044326	UXA4-190DB	17.7-19.7
10049861	UXA4-190DB1SM	17.7-19.7
10047772	SBX4-190EB	17.7-19.7
10038398	SUX2-190BB2H	17.7-19.7
10045872	SC1-190AB	17.7-19.7
10047730	SB4-190EB	17.7-19.7
10047739	SB6-190DB2	17.7-19.7
10047757	SBX6-190DB2	17.7-19.7
10049993	SBX4-190EB2	17.7-19.7
10044328	UXA4-220DB	21.2-23.6
10045903	SCX1-220AB	21.2-23.6
10046705	SC2-220CB	21.2-23.6
10046716	SCX2-220CB	21.2-23.6
10047765	SCX3-220BB	21.2-23.6
10047773	SBX4-220EB	21.2-23.6
10045907	SCX1-380AB	37.0-40.0
10046720	SCX2-380CB	37.0-40.0
1AF25654AAAA		
1AF06466AAAA		
409084597		
10042202		
10042194		
1AF24848ABAA		
10042195		
10042196		
10042204		
409113388		
810265-001		
810265-002		
815487-001		
815487-002		
15008330-PREM-V		
810268-001		
810268-002		
15347601		
1AD127790001		
SNAP-ST-158		
15006830-STD		
15347702		
1AF14580AAAA		
1AF16733AAAA		

10037376		
1AB095530045		
1AB095530046		
1AF03676ABAA		
1AF22298AAAA		
1AD173640001		

Line of Sight - Path Survey (15- 38 GHz)		
SVC-KWIE-ENG-TSE1	LOS Path Survey	
SVC-KWIE-ENG-TSE2	LOS Path Survey	
SVC-KWIE-ENG-TSE3	LOS Path Survey	
SVC-KWIE-ENG-TSE4	LOS Path Survey	
SVC-KWIE-ENG-TSE5	Path Survey Air-	
SVC-KWIE-ENG-TSE6	Additional Surve	
SVC-KWIE-ENG-TSE7	Additional Surve	
SVC-KWIE-ENG-TSE8	Path Survey (Per	
SVC-KWIE-ENG-TSE14	Additional Surve	
SVC-KWIE-ENG-TSE15	Additional Surve	

3CC57074AA	VHLPX1-80-AUBTR	71.0-86.0
1AF32561AAA	SHP3-6W-6WH/A	5.925-7.125
1AF31753AAA	VHLPX6-6W-6WH/B	5.925-7.125
1AF09221AAA	VHLP3-11W-AW1	10.7-11.7
1AF15943AAAA		
1AF16272AAAA		
409073269	WGB4-90	
409093101	190SE	
1AF13516AAA	31769-1	
1AF25570ABAA		
409073251		

3CC57251AA	SC2-W60CUBTR	5.925-7.125
3CC57252AA	SC2-W60CUBTC	5.925-7.125
10046209	SC3-W60BUBTR	5.925-7.125
10046217	SC3-W60BUBTC	5.925-7.125
3CC57240AA	RFS SL3-W60AUBTRC	5.925-7.125
10046179	SB4-W60E3UBTR	5.925-7.125
3CC56927AA	RFS_SB4-W60E3UBTR	5.925-7.125
10046187	SB4-W60E3UBTC	5.925-7.125
10046195	SB6-W60D2UBTR	5.925-7.125
10046202	SB6-W60D2UBTC	5.925-7.125
1AF33079AAAA	RFS SU6B-W60BUBTR1SG	5.925-7.125
1AF33076AAAA		5.925-7.125
1AF33077AAAA		5.925-7.125
10046875	SC2-W100CUBTR	10-11,7
3CC56637AA	RFS SC2-W100CUBTR	10-11,7
10046887	SC2-W100CUBTC	10-11,7
3CC56647AA	RFS SC2-W100CUBTC	10-11,7
10046211	SC3-W100BUBTR	10-11,7

3CC56700AA	RFS SC3-W100BUBTR	10-11,7
10046219	SC3-W100BUBTC	10-11,7
3CC56706AA	RFS SC3-W100BUBTC	10-11,7
3CC57242AA	RFS SL3-W100AUBTRC	10-11,7
10046181	SB4-W100EUBTR	10-11,7
3CC56712AA	SB4-W100EUBTR	10-11,7
10046189	SB4-W100EUBTC	10-11,7
3CC56718AA	RFS SB4-W100EUBTC	10-11,7
1AF33072AAAA	RFSSU4BW100DUBTR1SG/100	10-11,7
10050343	SB4-W100E2UBTC	10-11,7
3CC57333AA	SB4-W100E3UBTR	10-11,7
3CC57334AA	SB4-W100E3UBTC	10-11,7
10046197	SB6-W100D2UBTR	10-11,7
3CC56724AA	RFS SB6-W100D2UBTR	10-11,7
10046204	SB6-W100D2UBTC	10-11,7
3CC56729AA	RFS SB6-W100D2UBTC	10-11,7
1AF33073AAAA	RFSSU6BW100BUBTR1SG/100	10-11,7
3CC56619AA	RFS SC1-127AUBTR	12,75-13,25
3CC56628AA	RFS SC1-127AUBTC	12,75-13,25
10046876	SC2-127CUBTR	12,75-13,25
3CC56638AA	RFS SC2-127CUBTR	12,75-13,25
3CC56648AA	RFS SC2-127CUBTC	12,75-13,25
10046212	SC3-127BUBTR	12,75-13,25
3CC56701AA	RFS SC3-127BUBTR	12,75-13,25
10046220	SC3-127BUBTC	12,75-13,25
3CC56707AA	RFS SC3-127BUBTC	12,75-13,25
3CC57243AA	RFS SL3-127AUBTRC	12,75-13,25
10046190	SB4-127EUBTC	12,75-13,25
3CC56713AA	RFS SB4-127EUBTR	12,75-13,25
3CC56719AA	RFS SB4-127EUBTC	12,75-13,25
10046205	SB6-127D2UBTC	12,75-13,25
3CC56725AA	RFS SB6-127D2UBTR	12,75-13,25
3CC56730AA	RFS SB6-127D2UBTC	12,75-13,25
3CC56620AA	RFS SC1-142AUBTR	14,2-15,35
3CC56629AA	RFS SC1-142AUBTC	14,2-15,35
10046877	SC2-142CUBTR	14,2-15,35
3CC56639AA	RFS SC2-142CUBTR	14,2-15,35
10046889	SC2-142CUBTC	14,2-15,35
3CC56649AA	RFS SC2-142CUBTC	14,2-15,35
3CC56745AA	RFS SL2-142BUBTRC	14,2-15,35
3CC56702AA	RFS SC3-142BUBTR	14,2-15,35
3CC56708AA	RFS SC3-142BUBTC	14,2-15,35
3CC57244AA	RFS SL3-142AUBTRC	14,2-15,35
3CC56714AA	RFS SB4-142EUBTR	14,2-15,35
10046191	SB4-142EUBTC	14,2-15,35
3CC56720AA	RFS SB4-142EUBTC	14,2-15,35
3CC56726AA	RFS SB6-142D2UBTR	14,2-15,35
3CC56731AA	RFS SB6-142D2UBTC	14,2-15,35
10046163	SC1-190AUBTR	17,7-19,7
3CC56621AA	RFS SC1-190AUBTR	17,7-19,7
3CC56630AA	RFS SC1-190AUBTC	17,7-19,7
3CC56141AB	RFS SB1-190CMPT	17,7-19,7
10046172	SC1-190AUBTC	17,7-19,7
10046878	SC2-190CUBTR	17,7-19,7
3CC56640AA	RFS SC2-190CUBTR	17,7-19,7

10046890	SC2-190CUBTC	17,7-19,7
3CC56650AA	RFS SC2-190CUBTC	17,7-19,7
3CC56746AA	RFS SL2-190BUBTRC	17,7-19,7
10046214	SC3-190BUBTR	17,7-19,7
3CC56703AA	RFS SC3-190BUBTR	17,7-19,7
10046222	SC3-190BUBTC	17,7-19,7
3CC56709AA	RFS SC3-190BUBTC	17,7-19,7
3CC57245AA	RFS SL3-190AUBTRC	17,7-19,7
10046184	SB4-190EUBTR	17,7-19,7
3CC56715AA	RFS SB4-190EUBTR	17,7-19,7
10046192	SB4-190EUBTC	17,7-19,7
3CC56721AA	RFS SB4-190EUBTC	17,7-19,7
10046200	SB6-190D2UBTR	17,7-19,7
3CC56727AA	RFS SB6-190D2UBTR	17,7-19,7
10046207	SB6-190D2UBTC	17,7-19,7
3CC56732AA	RFS SB6-190D2UBTC	17,7-19,7
10046164	SC1-220AUBTR	21,2-23,6
3CC56622AA	RFS SC1-220AUBTR	21,2-23,6
10046173	SC1-220AUBTC	21,2-23,6
3CC56631AA	RFS SC1-220AUBTC	21,2-23,6
3CC56739AA	RFS SL1-220AUBTRC	21,2-23,6
10046891	SC2-220CUBTC	21,2-23,6
3CC56641AA	RFS SC2-220CUBTR	21,2-23,6
3CC56651AA	RFS SC2-220CUBTC	21,2-23,6
10046879	RFS SC2-220CUBTR	21,2-23,6
3CC56747AA	RFS SL2-220BUBTRC	21,2-23,6
3CC56704AA	RFS SC3-220BUBTR	21,2-23,6
3CC56710AA	RFS SC3-220BUBTC	21,2-23,6
3CC57246AA	RFS SL3-220AUBTRC	21,2-23,6
10046185	RFS SB4-220EUBTR	21,2-23,6
3CC56716AA	RFS SB4-220EUBTR	21,2-23,6
3CC56722AA	RFS SB4-220EUBTC	21,2-23,6
3CC56728AA	RFS SB6-220D2UBTR	21,2-23,6
3CC56733AA	RFS SB6-220D2UBTC	21,2-23,6
3CC56623AA	RFS SC1-250AUBTR	24,25-26,5
3CC56632AA	RFS SC1-250AUBTC	24,25-26,5
3CC56740AA	RFS SL1-250AUBTRC	24,25-26,5
3CC56642AA	RFS SC2-250CUBTR	24,25-26,5
3CC56652AA	RFS SC2-250CUBTC	24,25-26,5
3CC56748AA	RFS SL2-250BUBTRC	24,25-26,5
3CC56705AA	RFS SC3-250BUBTR	24,25-26,5
3CC56711AA	RFS SC3-250BUBTC	24,25-26,5
3CC57247AA	RFS SL3-250AUBTRC	24,25-26,5
3CC56717AA	RFS SB4-250EUBTR	24,25-26,5
3CC56723AA	RFS SB4-250EUBTC	24,25-26,5
3CC56624AA	RFS SC1-280AUBTR	27,5-29,5
3CC56633AA	RFS SC1-280AUBTC	27,5-29,5
3CC56741AA	RFS SL1-280AUBTRC	27,5-29,5
3CC56643AA	RFS SC2-280CUBTR	27,5-29,5
3CC56653AA	RFS SC2-280CUBTC	27,5-29,5
3CC56749AA	RFS SL2-280BUBTRC	27,5-29,5
3CC57248AA	RFS SL3-280AUBTRC	27,5-29,5
3CC56696AA	RFS SC1-320AUBTR	31,0-32,0
3CC56697AA	RFS SC1-320AUBTC	31,0-32,0
3CC56698AA	RFS SC2-320CUBTR	31,0-32,0

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~~3CC56742AA~~	~~RFS SL1-320AUBTRC~~	~~31,0-32,0~~
~~3CC56750AA~~	~~RFS SL2-320BUBTRC~~	~~31,0-32,0~~
~~3CC57249AA~~	~~RFS SL3-320AUBTRC~~	~~31,0-32,0~~
~~3CC56625AA~~	~~RFS SC1-380AUBTR~~	~~37,0-39,5~~
~~3CC56634AA~~	~~RFS SC1-380AUBTC~~	~~37,0-39,5~~
~~3CC56644AA~~	~~RFS SC2-380CUBTR~~	~~37,0-39,5~~
~~3CC56654AA~~	~~RFS SC2-380CUBTC~~	~~37,0-39,5~~
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~~3CC57332AA~~	~~RFS SC3-380BUBTC~~	~~37,0-39,5~~
~~3CC57335AA~~	~~RFS SCX3-380BUBT~~	~~37,0-39,5~~
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~~3CC56635AA~~	~~RFS SC1-420AUBTC~~	~~40,5-43,5~~
~~3CC56645AA~~	~~RFS SC2-420CUBTR~~	~~40,5-43,5~~
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~~3CC56744AA~~	~~RFS SL1-420AUBTRC~~	~~40,5-43,5~~
~~3CC56752AA~~	~~RFS SL2-420BUBTRC~~	~~40,5-43,5~~
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~~10038233~~	~~PADX10-U57AC7S1R~~	~~5.725-7.125~~
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10038464	UXA6-U57AC1SG	5.725-7.125
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10025486	DA8-59AC	5.925-6.425
10025500	DAX8-59AC	5.925-6.425
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1AF33334AAA	RFS 20010708	5.925-6.425
10027913	DA12-59AC	5.925-6.425
10036822	UXA6-59CC	5.925-6.425
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10038951	UXA8-59BC1SG	5.925-6.425
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37600051	PAD10-59AC1S1R	5.925-6.425
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1AF33206AAA	RFS UXA8-W59ACU	5.925-7.125
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10049631	SB6-W60DC2	5.925-7.125
10049633	SBX6-W60DC2	5.925-7.125
10050120	SCX3-W60BC	5.925-7.125
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10032475	UXA6-65BC	6.425-7.125
10036663	PAD10-65AC7S1R	6.425-7.125
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10043089	PAD8-65AC7S1R	6.425-7.125
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37500133	PAD8-65AC1SGR	6.425-7.125
10041660	SB6-W100CC	10.0-11.7
10049683	SC2-W100CC	10.0-11.7
10049685	SCX2-W100CC	10.0-11.7
10049692	SC3-W100BC	10.0-11.7
10049695	SCX3-W100BC	10.0-11.7
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10049698	SB4-W100EC	10.0-11.7
10049701	SBX4-W100EC	10.0-11.7
10050547	SU4-107DC0	10.0-11.7
10049704	SB6-W100DC2	10.0-11.7
~~1AF33071AAA~~	~~RFS DA6-107ACSQ1E~~	~~10,7 - 11,7~~
10050364	SB4-W100EC2	10.0-11.7
10050373	SCX3-W100BC-MODG	10.0-11.7
10011716	UXA8-107AD	10.7-11.7
10025551	UXA8-107AC	10.7-11.7
10025552	DAX8-107AC	10.7-11.7
~~1AF13707AAA~~	~~RFS UXA6-107BB~~	~~10,7 - 11,7~~
10031625	UXA6-107BC	10.7-11.7
10031452	UXA6-107BC1SG	10.7-11.7
10031862	SU6-107BC	10.7-11.7
10032174	SUX6-107BC	10.7-11.7
10034124	SU6-107BC2	10.7-11.7
10036350	SU6-107BC7	10.7-11.7
10040922	UXA6107BDTF4HGWKT4	10.7-11.7
10044370	SU4-107DD	10.7-11.7
10044372	SU4-107DC	10.7-11.7
~~1AF32721AAA~~	~~RFS SUX4-107DC2HG~~	~~10,7 - 11,7~~
10044375	SUX4-107DC	10.7-11.7
10044416	UXA4-107DD	10.7-11.7
~~1AF30300AAA~~	~~RFS UXA4-107DB~~	~~10,7 - 11,7~~
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10044417	UXA4-107DC	10.7-11.7
~~1AF33054AAA~~	~~RFS SLX3-W100AB~~	~~10,7 - 11,7~~
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10045212	SU4-107DC2	10.7-11.7
10045244	SUX4-107DC7	10.7-11.7
~~1AF33036AAA~~	~~SHPX4-11W-6WH~~	~~10.7-11.7~~
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409120391	UXA10-107AC8SG	10.7-11.7
10045796	SUX4-107DC2HG	10.7-11.7
10045860	SUX4-107DC2H	10.7-11.7
10047243	UA8-107AC2	10.7-11.7
10049853	UXA6-107BC1SM	10.7-11.7
10030822	UXA6-107BD1S1	10.7-11.7
10032174	RFS SUX6-107BC	10,7 - 11,7
10036470	RFS PADX6-107BCTS1RR	10,7 - 11,7
37600089	UXA8-107AC7SG	10.7-11.7
~~1AF33338AAA~~	~~RFS DA8-107AC1S1~~	~~10,7 - 11,7~~

~~1AF33052AAA~~	RFS SLX3-127AB	12,75 – 13,25
~~10046714~~	SCX2-142CB	14,2-15,35
~~1AF33060AAA~~	RFS SLX3-142AB	14,2 – 15,35
~~1AF28842AAA~~	RFS SBX6-142CB	14,2 – 15,35
~~1AF28913AAA~~	RFS SB6-142CB2	14,2 – 15,35
~~1AF16419AAA~~	RFS UXA8-142AB	14,2 – 15,35
~~10046704~~	SC2-190CB	17,7-19,7
~~10046715~~	SCX2-190CB	17,7-19,7
~~10047707~~	SC3-190BB	17,7-19,7
~~10047764~~	SCX3-190BB	17,7-19,7
~~1AF33059AAA~~	RFS SLX3-190AB	17,7 – 19,7
~~10044326~~	UXA4-190DB	17,7-19,7
~~10049861~~	UXA4-190DB1SM	17,7-19,7
~~10047772~~	SBX4-190EB	17,7-19,7
~~1AF05821AAA~~	RFS UXA6-190BB	17,7 – 19,7
~~1AF28923AAA~~	RFS SBX6-190CB2	17,7 – 19,7
~~10046716~~	SCX2-220CB	21,2-23,6
~~1AF33058AAA~~	RFS SLX3-220AB	21,2 – 23,6
~~1AF33057AAA~~	RFS SLX3-250AB	24,25 – 26,5
~~1AF33056AAA~~	RFS SLX3-280AB	27,0 – 28,0
~~1AF33055AAA~~	RFS SLX3-320AB	31,0 – 32,0
~~1AF33327AAA~~	RFS SCX3-380BB	37,0 – 39,5
~~1AF33328AAA~~	RFS SLX3-380AB	37,0 – 39,5
~~10047773~~	SBX4-220EB	21,2-23,6
~~10011281~~	RFS SMA-WK-8	
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~~10030415~~	RFS SMA-WK-6A	
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~~10041011~~	RFS SMA-SK-OMT-SCX2	
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694-9004-002	Adjacent Rack Attachment Assy	-N-
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3DB05594AA	AUX Cable for Housekeeping	-N-
3DB18634AB	MPT-Access-with-PoE	-Y-
3DB17010GCA	Wavence 19 SW CD Kit	-N-
3DB17010HCA	Wavence 19 SW Electronic Deli	-N-
3DB17020ECA	Wavence 19 Flash Card MSS1/M	-N-
3DB17020FCA	Wavence 19 Flash Card Core-E	-N-
3CC50198AB	SFP-1000Base-BX40-U	-Y-
3CC50199AB	SFP-1000Base-BX40-D	-Y-
3EM24447AB	11 GHz Transmit Monitor Port K	-Y-
3EM23465AE	1+1 HSB, SD w/ Combiner	-N-
3EM23465AH	Expansion to 2x(1+0), SD w/ Co	-N-
3DB76236AA	BRANCHING COMPACT 4GHZ	N
3DB76237AA	BRANCHING COMP. 4GHZ 1+	N
3DB76232AA	BRANCHING COMPACT 4GHZ	N
3DB76234AA	BRANCHING COMPACT 4GHZ	N
3DB76238AA	BRANCHING COMP. 4GHZ1X	N
3DB76235AA	BRANCHING COMPACT 4GHZ	N
3DB76233AA	BRANCHING COMPACT 4GHZ	N
3EM23466AN	L6 GHz 1+1 HSB, SD w/ Combi	-N-
3EM23466AR	L6 GHz Expansion to 2x(1+0), S	-N-
3DB76120AA	L6 GHz, 60 MHz Single Shelf R	-N-
3EM23466AS	U6 GHz 1+1 HSB, SD w/ Combi	-N-
3EM23466AV	U6 GHz Expansion to 2x(1+0), S	-N-
3EM23466BC	U6 GHz Diplexer Clamp Kit Ant	N
3EM23466AW	5.8 GHz 1+1 HSB, SD w/ Combi	-N-
3EM23466AY	5.8 GHz 2x(1+0), SD w/ Combin	-N-
3EM23466AZ	5.8 GHz 1+0, SD w/ Combiner-E	-N-
3EM23466BA	5.8 GHz Expansion to 2x(1+0), S	-N-
3EM24188CB	10.5 GHz Hot Standby Space Div	-N-
3EM24188CE	10.5 GHz 1+1 HSB, SD w/ Coml	-N-
3EM24188CF	10.5 GHz 2x(1+0), SD w/ Combi	-N-
3EM24188CH	10.5 GHz Expansion to 2x(1+0),	-N-
3EM24188CJ	10.5 GHz Diplexer Clamp Kit A	-N-
3EM24188BE	11 GHz 1+1 HSB, SD w/ Combin	-N-
3EM24188BH	11 GHz Expansion to 2x(1+0), S	-N-
967-1585-002	RF Diplexer Filter Xmt 6440-675	-N-
967-1585-005	RF Diplexer Filter Xmt 6750-700	-N-
3EM04024AC	RF Diplexer Filter Xmt 6440-650	-N-
3EM04024AD	RF Diplexer Filter Xmt 6581-674	-N-
3EM04024AE	RF Diplexer Filter Xmt 6740-692	-N-
3EM04024AF	RF Diplexer Filter Xmt 6921-700	-N-
967-0506-004	RF Diplexer Space Diversity Filt	-N-

967-0506-005	RF Diplexer Space Diversity Filt	-N
3EM24614AA	RF Diplexer Space Diversity Filt	-N
3EM24123DF	Stacking Filter L6 GHz Hot Stby	-N
3EM24123EF	Stacking Filter U6 GHz Hot Stby	-N
3EM17592AA	Bracket, WG Support (1 hole)	-N
3EM17592AB	Bracket, WG Support (2 hole)	-N
3EM24166EF	Stacking Filter 11 GHz Hot Stby	-N
3EM24166GF	Stacking Filter 11 GHz Add-on S	-N
3EM24166GG	Stacking Filter 11 GHz Add-on S	-N
3EM24166FH	Stacking Filter WG Add SD Ass	-N
3EM24166AK	Stacking Filter Add-on XMT & I	-N
3EM24166GS	Field Add-On 2nd MPT to 1x(1+	-N
3EM23524AG	Isolator Assy Lower 6 GHz 1+1+	-N
3EM24189AH	Isolator Assy 10.5 GHz Hot Stan	-N
3MU00179CB	W/G Flange CPR-159 Kit, 1 Port	-N
3MU00179CC	W/G Flange CMR-159 Kit, 1 Pe	-N
3DB76285BA	5.9-6.95 GHz circulator, TX	-N
3DB76275AA	KIT FIX. BRACK. BRANCH. C	N
3CC50251AA	Ground kit, 2M—(qty 3 per run,	-N
3CC52199AG	10m Preamsembled CAT5e R2TC	-N
3CC52186CA	XPIC cable 1 m	-N
3CC56877AA	Ortho Mode Transducer UBT 15	N
3CC56880AA	Ortho Mode Transducer UBT 20	N
3CC56881AA	Ortho Mode Transducer UBT 28	N
3CC56884AA	Ortho Mode Transducer UBT 42	N
3CC08010AB	Flextwist 7,05GHz-10GHz PBR	-N
3MU0018GFDA	RTU UBT-I Adp Mod	N

Part No	Description	Spare
1AD214130001	(Vertical) Universal grd bar kit	N
406645671	#6 Ground cable-KS22641L1, P	N
408406536	KIT-YA6C-L BOX PWR COMMO	N
901350322	SCR M-.25 IN 20 TPI 1 IN* for R	N
407305549	WSHR LK-92147A029 SPLT 1*	N
900327453	FLAT WASHER, STAINLESS ST	N
900329830	NUT-300 HEX SST .250-19 for I	N
1AD212050001	3" stand-ff for SAR per set of 24	N

1AB486850001	DSX-1 Module, 4xT1, with mon	N
1AB486840001	DSX-1 Empty Chassis, 19", 16 m	N
409106473	Chatsworth RACK, 46053-505, 7'6 UNIV FRAME, TWO TOP- BARS, 19, CLEAR	N
409089802	Chatsworth RACK, 55053-503, 7' UNIV FRAME,	
409083052	Juice Goose PDU	N
SVC-OHIE-INST-P01		Application and

3EM24226AF		Witness Test & Integration Certificate (Per-
300702487		PMI-certified project manager skilled in all aspects of managing network deployment projects.
P517267		PMI-certified project manager skilled in all aspects of managing network deployment projects.

1AF32560AAA/409113388	VHLP2-11W-6WH/A	10.7-11.7
1AF33082AAA/	CommScope EWP90-107-10F430	
1AF33084AAA/	CommScope EWP90-107-10F320	
1AF26050AAA/	CommScope SD-003-KIT1	
1AF15937AAAA		
409083938	EWSH-90	
409085388		
1AB301170001	CommScope L4.5PNF-RC	
3MU00085AL	200 ft RJ45-Cat5e Cable	-N-
3MU00079BA	9500-MPR-Flx16WS-1-MSS	-N-
3CC50169AA	Copper SFP (Finisar) -- not for us	-Y-
3CC50183AA	SFP-1000Base-BX20-U	-Y-
3CC50184AA	SFP-1000Base-BX20-D	-Y-
3MU00085AM	300 ft RJ45-Cat5e Cable	-N-
1AF02957ABA/	11 GHz FlexTwist	-N-
3EM23465AA	6/11 GHz Hot Standby 1:10 Cou	-N-
3EM23465AG	1+0, SD w/ Combiner	-N-
3EM23465AB	6/11 GHz Hot Standby Space Div	-N-
3EM23465AC	6/11 GHz 1+0 (Non-Standby) Di	-N-
3MU00117AA	UU6 GHz, HSB, 1:10 Coupler-D	N
3MU00117AB	UU6 GHz, 1+0 (Non-Stby) Diple	N
3MU00117AC	UU6 GHz, HSB, HSB w/ SD Dip	N
3MU00117AD	UU6 GHz, HSB, Single Shelf Re	N
3EM24188CA	10.5 GHz Hot Standby 1:10 Cou	-N-
3EM24188CC	10.5 GHz 1+0 (Non-Standby) Di	-N-

3EM24188CD	10.5 GHz Single Shelf Repeater	-N-
3EM24458AA	RF Diplexer Filter Xmt 5725-574	-N-
3EM24458AB	RF Diplexer Filter Xmt 5755-574	-N-
3EM24458AC	RF Diplexer Filter Xmt 5725-574	-N-
3EM16710AB	RF Diplexer Filter Xmt 5925-615	-N-
3EM16710AC	RF Diplexer Filter Xmt 6175-644	-N-
3EM09730AA	RF Diplexer Filter Xmt 6525-685	-N-
3EM24333AA	RF Diplexer Filter Xmt 6525-685	-N-
967-1585-003	RF Diplexer Filter Xmt 6440-674	-N-
967-1585-004	RF Diplexer Filter Xmt 6750-700	-N-
3EM24078AA	RF Diplexer Filter 10550-10680,	-N-
3EM11649AA	RF Diplexer Space Diversity Filt	-N-
3EM11649AB	RF Diplexer Space Diversity Filt	-N-
3EM11649AC	RF Diplexer Space Diversity Filt	-N-
3EM11649AD	RF Diplexer Space Diversity Filt	-N-
967-0506-002	RF Diplexer Space Diversity Filt	-N-
967-0506-003	RF Diplexer Space Diversity Filt	-N-
3EM04182AA	RF Diplexer Space Diversity Filt	-N-
3EM04235AA	RF Diplexer Space Diversity Filt	-N-
3EM04235AB	RF Diplexer Space Diversity Filt	-N-
3EM04235AC	RF Diplexer Space Diversity Filt	-N-
3EM24310AA	RF Diplexer Space Diversity Filt	-N-
3EM24310AB	RF Diplexer Space Diversity Filt	N
3EM23511AW	11 GHz Trans Kit A4' FDTransit	-N-
3EM24123DA	Stacking Filter L6 GHz Hot Stan	-N-
3EM24123DC	Stacking Filter L6 GHz Hot Stby	-N-
3EM24123DD	Stacking Filter L6 GHz Hot Stby	-N-
3EM24123DB	Stacking Filter L6 GHz Hot Stan	-N-
3EM24123EA	Stacking Filter U6 GHz Hot Stan	-N-
3EM24123EC	Stacking Filter U6 GHz Hot Stby	-N-
3EM24123AE	Stacking Filter 6 GHz Add-on Sp	-N-
3EM24123AK	Stacking Filter Flat Bracket Kit	-N-
3EM24123AF	Stacking Filter 6 GHz Add-on Sp	-N-
3EM24123AG	Stacking Filter 6 GHz Add-on Sp	-N-
3EM24123BV	Stacking Filter 6 GHz Freq Div V	-N-
3EM24123AP	Stacking Filter 6 GHz Freq Div V	-N-
3EM24123BU	Stacking Filter 6 GHz Freq Div V	-N-
3EM24123BK	1st & 2nd MPT Add Space Div t	-N-
3EM24123BL	1st & 2nd MPT Add Space Div t	-N-
3EM24123BM	3rd MPT Add Space Div to 1x(1	-N-
3EM24123BN	3rd MPT Add Space Div to 2x(1	-N-
3EM24123BP	3rd & 4th MPT Add Space Div t	-N-
3EM24123BQ	3rd & 4th MPT Add Space Div t	-N-
3EM24123AQ	Stacking Filter 6 GHz Freq Div V	-N-
3EM24123AK	Stacking Filter Flat Bracket Kit	-N-
3DB76092AA	60 MHz Filter Flange Adapter K	-N-
3DB76285AA	5.9-6.95 GHz circulator, RX	-N-
3DB76221AA	FLANGED STUB R120 L=462n	-N-
3CC50251AA	Ground kit, 2M—(qty 3 per run	N
1AF21838AAA	VHLPX4-6W-6WH/A	5.925-7.125
1AF24848ABAA		

1AF32173AAA	EWP63-59W	
409084308	220498	
409085123	163SE	
409085107	252SE	
409083920	42396A-7	
405423773	42396A-8	

NASPO ValuePoint MSRP	
\$	855.00
\$	1,725.00
\$	1,010.00
\$	1,050.00
\$	1,250.00
\$	50.00
\$	1,255.00
\$	56.50
\$	23,000.00
\$	166.59
\$	4,466.60
\$	241.80
\$	1,400.00
\$	123.00
\$	87.00
\$	50.00
\$	950.00
\$	1,879.00
\$	250.00
\$	5,000.00
\$	1,910.00
\$	200.00
\$	210.00
\$	727.16
\$	140.00
\$	2,950.00
\$	2,150.00
\$	2,150.00
\$	1,500.00
\$	1,500.00
\$	940.00
\$	963.00
\$	5,470.00
\$	350.00
\$	690.00
\$	685.00
\$	690.00
\$	925.00
\$	1,350.00
\$	1,270.00
\$	1,340.00

Wavence MPT-HC / MPR-e INTEGRATED ANTENNAS FROM RFS

Description

SC3-W60AMPT

SCX3-W60AMPT

SB4-W60DMPT

SB4-W60D3MPT

SBX4-W60DMPT

SB6-W60CMPT

SB6-W60C2MPT

SBX6-W60CMPT

SC2-W100BMPT

SCX2-W100BMPT

SC3-W100AMPT

SCX3-W100AMPT

SB4-W100DMPT

SBX4-W100DMPT

SB6-W100CMPT

SBX6-W100CMPT

SCX2-220BMPT

Ant int UBT 3ft 6GHz SP

Ant int UBT 4ft 6GHz SP

Ant UBT Int 1ft 13-GHz SP

Ant UBT Int 1ft 13-GHz DP

Ant UBT Int 2ft 13-GHz DP

Ant UBT Int 4ft 13-GHz SP

Ant UBT Int 6ft 13-GHz SP

Ant UBT Int 1ft 15-GHz SP

Ant UBT Int 1ft 15-GHz DP

Ant UBT Int 3ft 15 GHz SP
Ant UBT Int 3ft 15 GHz DP
Ant UBT Int 4ft 15 GHz SP
Ant UBT Int 6ft 15 GHz SP
Ant UBT Int 6ft 15 GHz DP
Ant UBT Int 1ft 18 GHz DP
Ant UBT Int 1ft 23 GHz SP
Ant UBT Int 1ft 23 GHz DP
Ant UBT Int 3ft 23 GHz SP
Ant UBT Int 3ft 23 GHz DP
Ant UBT Int 4ft 23 GHz DP
Ant UBT Int 6ft 23 GHz SP
Ant UBT Int 6ft 23 GHz DP
Ant UBT Int 1ft 26 GHz SP
Ant UBT Int 1ft 26 GHz DP
Ant UBT Int 2ft 26 GHz SP
Ant UBT Int 2ft 26 GHz DP
Ant UBT Int 3ft 26 GHz SP
Ant UBT Int 3ft 26 GHz DP
Ant UBT Int 4ft 26 GHz SP
Ant UBT Int 4ft 26 GHz DP
Ant UBT Int 1ft 28 GHz SP
Ant UBT Int 1ft 28 GHz DP
Ant UBT Int 2ft 28 GHz SP
Ant UBT Int 2ft 28 GHz DP
Ant UBT Int 1ft 38 GHz SP
Ant UBT Int 1ft 38 GHz DP
Ant UBT Int 2ft 38 GHz SP
Ant UBT Int 2ft 38 GHz DP
Ant UBT Int 1ft 42 GHz SP
Ant UBT Int 1ft 42 GHz DP
Ant UBT Int 2ft 42 GHz SP
Ant UBT Int 2ft 42 GHz DP
Ant UBT Int 1ft 80 GHz SP - FCC
Ant UBT Int 1ft 80 GHz SP
Ant UBT Int 1ft DP 80 GHz (with OMT)
Ant UBT Int 1ft DP 80 GHz (with OMT) - FCC
Ant UBT Int 2ft 80 GHz SP
Ant UBT Int 2ft DP 80 GHz (with OMT)

\$	10,500.00
\$	13,500.00
\$	19,500.00
\$	28,500.00
\$	40,500.00
\$	46,500.00
\$	52,500.00
\$	12,000.00
\$	4,320.00
\$	5,760.00
\$	2,040.00

Ant/Radome Kt SPF2-52CN1S1R 5.25-5.85GHz
Antenna SPF6-52CN1S 5.25-5.85 GHz
Ant/Radome Kt SPF6-52CN1S1R 5.25-5.85GHz
ANT PADX10-W57AC1S1R
ANT/RAD/SWAY BAR KIT PADX6-W57AC7S1R
ANT/RAD/SWAY BAR KIT PADX8-W57AC7S1R
Antenna Sway Bar Kit UXA6-W57AC7S1
ANT SWAY BAR KIT UXA8-W57AC7S1
ANT SWAY BAR KIT UXA10-W57AC7S1
ANT/RAD/SWAY BAR KIT PADX8-W57AC7SGR 5.7
PA4-W57DC1S1R
ANT/RAD KIT PAD6-W57BC7S1R
ANT/RAD/SWAY BAR KIT PAD8-W57AC7S1R
DA8-W57AC1S1 - 8ft Hi Perf, CPR137G, Single Pol Wideband Ant., Includes Radome, 1 strut
DA8-W57AC1SG
ANT/RAD/SWAY BAR KIT PADX6-U57AC7S1R
ANT/RAD/SWAY BAR KIT PADX8-U57AC7S1R
ANT/RAD/SWAY BAR KIT PADX10-U57AC7S1R
ANT SWAY BAR KIT UXA6-U57AC7S1
ANT SWAY BAR KIT UXA8-U57AC7S1
ANT/RAD KIT PADX6-U57AC1SGR 5.725-7.125A
ANT UXA6-U57AC1SG 5.725-7.125 GHz
UXA10-U57AC7
ANT DA8-59AC1S1 5.925-6.425 GHz
ANT DAX8-59AC1S1 5.925-6.425 GHz
DAX12-59AC
ANT DA12-59AC1S1 5.925-6.425 GHz
UXA6-59BC1S1
UXA8-59BC1S1
UXA10-59BC1S1
UXA8-59BC1SG
UXA12-59AC4
DA12-59AC1SG
SU6-59BC2
ANT/RAD/SWAY BAR KIT PAD6-59BC7S1R
ANT PAD8-59AC1S 5.925-6.425GHZ
Antenna/Radome Kit PAD8-59AC1S1R
ANT/RAD KIT PADX8-59AC1S1R 5.925-6.425
ANT/RAD/SWAY BAR KIT PAD8-59AC7S1R
PAD10-59AC1S1 - 10ft Stnd, CPR137G, Single Pol Ant., WITHOUT RADOME, Includes 1 strut
ANT/RAD KIT PAD10-59AC1S1R
ANT/SWAY BAR KIT UXA6-W59BC7S1
ANT/SWAY BAR KIT UXA8-W59AC7S1
KIT ANT UXA6-W59 TF CC4FT HANGERASSY&HDW
KIT ANT UXA8-W59 TF CC4FT HANGERASSY&HDW
PADX6-W59BC7S1R
ANT/RAD/SWAY BAR KIT PAD6-W59BC7S1R
Antenna/Radome Kit PADX6-W59BC1S1R
ANT UXA8-W59AC1S1 5.925-6.875
Antenna PAD8-W59AC1S1R 5.925-6.875
ANT/RAD/SWAY BAR KIT PAD8-W59AC7S1R
ANT/RAD KIT PADX8-W59AC7S1R
ANT UXA10-W59AC1S1 5.925-6.875
ANT UXA12-W59AC1S1 5.925-6.875
SUX4B-W60DC1SG

SB4-W60EC
SBX4-W60EC
SB6-W60DC2
SBX6-W60DC2
SC3-W60BC
SCX3-W60BC
SB4-W60EC2
ANT DA8-65AC1S1 6.425-7.125 GHz
ANT UX8-65AC1S1 6.425-7.125 GHz
UXA6-65BD
Antenna SUX6-65BC1S1 6.425-7.125 GHz
ANT UX6-65BC1S1 6.425-7.125 GHz
PAD10-65AC7S1R
PAD6-65BC7S1
PAD6-65BC7S1R
PAD8-65AC7S1R
ANT/RAD KIT PAD6-65BC1SGR
Antenna/Radome Kit PAD8-65AC1SGR
SC2-W100CG
SCX2-W100CG
SC3-W100BC
SCX3-W100BC
SB4-W100EC
SBX4-W100EC
SU4-107DC0
SB6-W100DC2
SBX6-W100DC2
SB4-W100EC2
SBX4-W100EC2
SCX3-W100BC8
SCX3-W100BC-MODG
UXA8-107AD
UXA10-107AD
ANT UX8-107AC1S1 10.7-11.7GHz
ANT DAX8-107AC1S1 10.7-11.7GHz
ANT UX6-107BC1S1 10.7-11.7GHz
UXA6-107BC1SG – 6ft Hi Perf Directive, CPR90G, Dual Pol Ant., Includes Radome (gray), 1 strut
ANT SU6-107BC1S1 10.7-11.7 GHz
ANT SUX6-107BC1S1 10.7-11.7GHz
ANT SU6-107BC2S1 10.7-11.7 GHz
SUX3-107BFC1SG
ANT/RAD/SWAY BAR KIT SU6-107BC7S1
KIT ANT UX6-107 TF VB4FT HANGERASSY&HDW
SU4-107DD
SU4-107DC
SUX4-107DC
UXA4-107DD – 4 ft Hi Perf Directive, PDR100, Dual Pol Ant., Includes Radome, 1 strut
UXA4-107DC
UXA4-107DC1SG
SU4-107DC1SG
SUX4-107DC1SG
SU4-107DC2
SUX4-107DC7
SUX4-107DC7SG
UXA10-107AC8SG

SUX4-107DC2H
UA8-107AC2
UXA6-107BC1SM
UXA6-107BD1S1-
ANT UXA8-107AC7SG 10.7-11.7GHZ
SBX4-127EB
UXA6-142BB
SBX4-142EB
UXA4-142DB
SCX2-142CB
SC2-190CB
SCX2-190CB
SC3-190BB
SCX3-190BB
UXA4-190DB
UXA4-190DB1SM
SBX4-190EB
SUX2-190BB2H
SC1-190AB
SB4-190EB
SB6-190DB2
SBX6-190DB2
SBX4-190EB2
UXA4-220DB
SCX1-220AB
SC2-220CB
SCX2-220CB
SCX3-220BB
SBX4-220EB
SCX1-380AB
SCX2-380CB
Sway Bar Kit 3ft VHL P antennas, Inner, 5ft pipe (VSTRUT-3KIT)
VSTRUT-P3KIT, Inner, 4'-6' antenna, 5' pipe
Sway Bar Kit 8ft, 10ft, 12ft, Adjustable Inboard, use only as replacement on existing antennas (520570-1)
APD20-D-35XH0R00S0 , 120v, Lo psi, no purge, < 7800' 6-12GHz
APD20-D-35XH0R00S1 120v, 3-5psi, Lo psi alm, 10 day purge, < 7800' 6-12GHz
Dehydrator MT050C, 115/230 Vac, 50/60 Hz
Automatic Dehydrator (APD20-D-35EH2R00S1), 120v, 3-5 psi, Hum alm, Lo psi, Hi psi, 10 day purge, < 7800ft 6-12GHz
Automatic Dehydrator (APD20-D-35EH2R24S1), 120v, 3-5 psi,-
Automatic Dehydrator (APD70-D-35XH0R00S0), Hi capacity (< 28K ft 6-12 GHz), Lo PSI, no purge.
Automatic Dehydrator (MT500B-81315), 0.5 CFM, Full Alarm, 6 GHz: Min 900ft w/g, Max 10,000ft w/g. 11 GHz: Min 30
Standard Elliptical Waveguide, E60 (5.6 – 6.425 GHz)
Premium Elliptical Waveguide, EP60 (5.6 – 6.425 GHz)
Standard Elliptical Waveguide E105 (10.0 – 11.7 GHz)
Premium Elliptical Waveguide EP105 (10.0 – 11.7 GHz)
Premium Elliptical Waveguide, EP65 (5.9 – 7.125 GHz)
Standard Elliptical Waveguide, E185 (17.3 – 19.7 GHz)
Premium Elliptical Waveguide, EP185 (17.3 – 19.7 GHz)
GKIT E220 Grounding Kit 0.25m Wire
Hanger Kit for EW180/EW220/EW240 (43211A) (10 pack)
Hanger, Stackable 1-5/8 10 Kit
FLEXWELL Elliptical Waveguide, 21.2 - 23.6 GHz (Per Ft) E220J
Wall Feed Through for FLEXWELL Elliptical Waveguide E220/EO38
Premium Elliptical Waveguide, EWP52-59 (5.925 – 6.425 GHz)
Uwave accessory*FLEX TWIST 60cm CPR137G

3ft Twistflex -- HC Radio -- PBR220/UBR220, Tin-plated flanges (TF220-BW3-090M)
PPC Connector (compression) -- straight male (3 per LMR run) (TMS)
PPC Connector (compression) -- straight female (1 per LMR run) (TMS)
Bulk Pipe (for pipe mount) -- 4 1/2" x 72" (Valmont: P472)
4 1/2" Universal Ring Mount (Valmont: 801068, LWRM) -- PREFERRED -- 1 required for 3' or smaller antennas
BRL Cushion BC141X 1-5/8,10@0.24,10p (Valmont BC1410)

Single-hop system

1st hop for a connected multi-hop system

2nd hop+ for a connected multi-hop system

Each single path in a multi-hop system, not connected

Per man with equipment shipment

Each

Each

Path Survey (Per Man Day)

Each

Each

Ant UBT Int 1ft DP 80 GHz (+ OMT) A.

Microwave Ant. 6GHz 3ft SHP3-6W-6WH/A

ANT-VHLPX 6FT Dual-pol 5.925-7.125GHz

VHLP3-11W-AW1A-3' HP,HC Integ,SP,Radome

Standard Elliptical Waveguide, EW180 (17.3 -- 19.7 GHz)

Connector, Fixed-tuned / PBR220 for EW180 (top) (1180SCM)

4" Boot

Connector

Hardware Kit- 3/8" x 1" for Hangers (31769-1) (10 pack)

SREW632-K Cushion Hanger kit (5) 2 hole

4" Boot (WGB4-63) - for EW63

Ant UBT Int 2 ft 5.8/6 GHz SP
Ant UBT Int 2 ft 5.8/6 GHz DP
Ant int UBT 3ft 6GHz SP
Ant int UBT 3ft 6GHz SP
Ant int UBT 3ft class3+ 6GHz SP/DP
Ant int UBT 4ft 6GHz SP
Ant int UBT 4ft 6GHz SP
Ant int UBT 4ft 6GHz DP
Ant int UBT 6ft 6GHz SP
Ant int UBT 6ft 6GHz DP
Ant UBT Int 6 ft, 6 GHz, SP Gray
SB6-W60D2UBTR antenna w/o feed
SB6-W60D2UBTC antenna w/o feed
Ant UBT Int 2ft 10/11 GHz SP
Ant UBT Int 2ft 10/11 GHz SP
Ant UBT Int 2ft 10/11 GHz DP
Ant UBT Int 2ft 10/11 GHz DP
Ant UBT Int 3ft 10/11 GHz SP

Ant UBT Int 3ft 10/11 GHz SP
Ant UBT Int 3ft 10/11 GHz DP
Ant UBT Int 3ft 10/11 GHz DP
Ant int UBT 3ft class3+ 11GHz SP/DP
Ant UBT Int 4ft 10/11 GHz SP
Ant UBT Int 4ft 10/11 GHz SP
Ant UBT Int 4ft 10/11 GHz DP
Ant UBT Int 4ft 10/11 GHz DP
Ant UBT Int 4 ft, 11 GHz, SP Gray
Ant UBT Int SB4-W100E2UBTC,4ft,11GHz, DP
Ant int UBT 4ft 10/11GHz SP new variant
Ant int UBT 4ft 10/11GHz DP new variant
Ant UBT Int 6ft 10/11 GHz SP
Ant UBT Int 6ft 10/11 GHz SP
Ant UBT Int 6ft 10/11 GHz DP
Ant UBT Int 6ft 10/11 GHz DP
Ant UBT Int 6 ft, 11 GHz, SP Gray
Ant int UBT 1ft 13GHz SP
Ant int UBT 1ft 13GHz DP
Ant UBT Int 2ft 13 GHz SP
Ant int UBT 2ft 13GHz SP
Ant int UBT 2ft 13GHz DP
Ant UBT Int 3ft 13 GHz SP
Ant int UBT 3ft 13GHz SP
Ant UBT Int 3ft 13 GHz DP
Ant int UBT 3ft 13GHz DP
Ant int UBT 3ft class4 13GHz SP/DP
Ant UBT Int 4ft 13 GHz DP
Ant int UBT 4ft 13GHz SP
Ant int UBT 4ft 13GHz DP
Ant UBT Int 6ft 13 GHz DP
Ant int UBT 6ft 13GHz SP
Ant int UBT 6ft 13GHz DP
Ant int UBT 1ft 15GHz SP
Ant int UBT 1ft 15GHz DP
Ant UBT Int 2ft 15 GHz SP
Ant int UBT 2ft 15GHz SP
Ant UBT Int 2ft 15 GHz DP
Ant int UBT 2ft 15GHz DP
Ant Int UBT 2ft class4 15 GHz SP/DP
Ant int UBT 3ft 15GHz SP
Ant int UBT 3ft 15GHz DP
Ant int UBT 3ft class4 15GHz SP/DP
Ant int UBT 4ft 15GHz SP
Ant UBT Int 4ft 15 GHz DP
Ant int UBT 4ft 15GHz DP
Ant int UBT 6ft 15GHz SP
Ant int UBT 6ft 15GHz DP
Ant UBT Int 1ft 18 GHz SP
Ant int UBT 1ft 18GHz SP
Ant int UBT 1ft 18GHz DP
Ant MPT Int 1ft 18GHz
Ant UBT Int 1ft 18 GHz DP
Ant UBT Int 2ft 18 GHz SP
Ant UBT Int 2ft 18 GHz SP

Ant UBT Int 2ft 18 GHz DP
Ant UBT Int 2ft 18 GHz DP
Ant Int UBT 2ft class4 18 GHz SP/DP
Ant UBT Int 3ft 18 GHz SP
Ant UBT Int 3ft 18 GHz SP
Ant UBT Int 3ft 18 GHz DP
Ant UBT Int 3ft 18 GHz DP
Ant int UBT 3ft class4 18GHz SP/DP
Ant UBT Int 4ft 18 GHz SP
Ant UBT Int 4ft 18 GHz SP
Ant UBT Int 4ft 18 GHz DP
Ant UBT Int 4ft 18 GHz DP
Ant UBT Int 6ft 18 GHz SP
Ant int UBT 6ft 18GHz SP
Ant UBT Int 6ft 18 GHz DP
Ant UBT Int 6ft 18 GHz DP
Ant UBT Int 1ft 23 GHz SP
Ant int UBT 1ft 23GHz SP
Ant UBT Int 1ft 23 GHz DP
Ant int UBT 1ft 23GHz DP
Ant Int UBT 1ft class4 23 GHz SP/DP
Ant UBT Int 2ft 23 GHz DP
Ant int UBT 2ft 23GHz SP
Ant int UBT 2ft 23GHz DP
Ant UBT Int SC2-220CUBTR, 2ft, 23GHz, SP
Ant Int UBT 2ft class4 23 GHz SP/DP
Ant int UBT 3ft 23GHz SP
Ant int UBT 3ft 23GHz DP
Ant int UBT 3ft class4 23GHz SP/DP
Ant UBT Int SB4-220EUBTR, 4ft, 23GHz, SP
Ant int UBT 4ft 23GHz SP
Ant int UBT 4ft 23GHz DP
Ant int UBT 6ft 23GHz SP
Ant int UBT 6ft 23GHz DP
Ant int UBT 1ft 26GHz SP
Ant int UBT 1ft 26GHz DP
Ant Int UBT 1ft class4 26 GHz SP/DP
Ant int UBT 2ft 26GHz SP
Ant int UBT 2ft 26GHz DP
Ant Int UBT 2ft class4 26 GHz SP/DP
Ant int UBT 3ft 26GHz SP
Ant int UBT 3ft 26GHz DP
Ant int UBT 3ft class4 26GHz SP/DP
Ant int UBT 4ft 26GHz SP
Ant int UBT 4ft 26GHz DP
Ant int UBT 1ft 28GHz SP
Ant int UBT 1ft 28GHz DP
Ant Int UBT 1ft class4 28 GHz SP/DP
Ant int UBT 2ft 28GHz SP
Ant int UBT 2ft 28GHz DP
Ant Int UBT 2ft class4 28 GHz SP/DP
Ant int UBT 3ft class4 28GHz SP/DP
Ant int UBT 1ft 32GHz SP
Ant int UBT 1ft 32GHz DP
Ant int UBT 2ft 32GHz SP

Ant int UBT 2ft 32GHz DP
Ant int UBT 1ft class4 32 GHz SP/DP
Ant int UBT 2ft class4 32 GHz SP/DP
Ant int UBT 3ft class4 32GHz SP/DP
Ant int UBT 1ft 38GHz SP
Ant int UBT 1ft 38GHz DP
Ant int UBT 2ft 38GHz SP
Ant int UBT 2ft 38GHz DP
Ant Int UBT 1ft class4 38 GHz SP/DP
Ant Int UBT 2ft class4 38 GHz SP/DP
Ant UBT Int 3ft class4 38 GHz SP/DP
Ant UBT Int 3ft 38 GHz SP
Ant UBT Int 3ft 38 GHz DP
Ant UBT Int 3ft DP 38 GHz (with OMT)
Ant int UBT 1ft 42GHz SP
Ant int UBT 1ft 42GHz DP
Ant int UBT 2ft 42GHz SP
Ant int UBT 2ft 42GHz DP
Ant Int UBT 1ft class4 42 GHz SP/DP
Ant Int UBT 2ft class4 42 GHz SP/DP
Ant UBT Int 1ft 80 GHz SP
Ant UBT Int 1ft DP 80 GHz (with OMT)
Ant UBT Int 1ft 80 GHz SP - FCC
Ant UBT Int 1ft 80 GHz SP
Ant UBT Int 1ft 80 GHz SP FCC
Ant UBT Int 1ft DP 80 GHz (with OMT)
Ant UBT Int 1ft 80 GHz FCC (with OMT)
Ant UBT Int 2ft 80 GHz SP
Ant UBT Int 2ft DP 80 GHz (with OMT)
Ant UBT Int 2ft 80 GHz SP
Ant UBT Int 2ft DP 80 GHz (with OMT)
DBUX6-W60W103ACCSQ1E
DBUX6-W60W103ACG
DBUX8-W60W103ACG
DBUX10-W60W103ACG
Ant SC2-W60CC,2ft,6GHz w/ 5.8GHz,Not Int
MA0528-23AN - 1ft PANEL 23 DBI - Panel Ant., N-female, Includes Radome, NO struts
MA0528-28AN - 2ft PANEL 28 DBI - Panel Ant., N-female, Includes Radome, NO struts
ANT PADX10-W57AC1S1R
ANT/RAD/SWAY BAR KIT PADX6-W57AC7S1R
ANT/RAD/SWAY BAR KIT PADX8-W57AC7S1R
Antenna Sway Bar Kit UXA6-W57AC7S1
ANT SWAY BAR KIT UXA8-W57AC7S1
ANT SWAY BAR KIT UXA10-W57AC7S1
ANT/RAD/SWAY BAR KIT PADX8-W57AC7SGR 5.7
PA4-W57DC1S1R
ANT/RAD KIT PAD6-W57BC7S1R
ANT/RAD/SWAY BAR KIT PAD8-W57AC7S1R
DA8-W57AC1S1 - 8ft Hi Perf, CPR137G, Single Pol Wideband Ant., Includes Radome, 1 strut
DA8-W57AC1SG
ANT/RAD/SWAY BAR KIT PADX6-U57AC7S1R
ANT/RAD/SWAY BAR KIT PADX8-U57AC7S1R
ANT/RAD/SWAY BAR KIT PADX10-U57AC7S1R
ANT SWAY BAR KIT UXA6-U57AC7S1
ANT SWAY BAR KIT UXA8-U57AC7S1

ANT/RAD KIT PADX6-U57AC1SGR 5.725-7.125A
ANT UXA6-U57AC1SG 5.725-7.125-GHZ
UXA10-U57AC7
ANT DA8-59AC1S1 5.925-6.425-GHz
ANT DAX8-59AC1S1 5.925-6.425-GHz
ANT DA10-59AC1S1 5.925-6.425-GHz
ANT DAX10-59AC1S1 5.925-6.425-GHz
Reflector for DAX8-59AC Ant (20010708)
ANT DA12-59AC1S1 5.925-6.425-GHz
UXA6-59BC1S1
Ant UXA6-59ACSQ1E, 6ft, 6GHz,Extreme Rad
UXA8-59BC1S1
Ant UXA8-59ACSQ1E, 8ft, 6GHz,Extreme Rad
UXA10-59BC1S1
UXA8-59BC1SG
UXA12-59AC4
DA12-59AC1SG
SU6-59BC2
ANT/RAD/SWAY BAR KIT PAD6-59BC7S1R
ANT PAD8-59AC1S 5.925-6.425GHZ
Antenna/Radome Kit PAD8-59AC1S1R
ANT/RAD/SWAY BAR KIT PAD8-59AC7S1R
ANT/RAD KIT PAD10-59AC1S1R
ANT/SWAY BAR KIT UXA6-W59BC7S1
Ant UXA6-W59ACSQ1E, 6ft,6GHz,Extreme Rad
Ant UXA8-W59ACSQGE,6ft,6GHz,Extreme,Grey
ANT/SWAY BAR KIT UXA8-W59AC7S1
Ant UXA8-W59ACSQ1E,8ft, 6GHz,Extreme Rad
KIT ANT UXA6-W59 TF-CC4FT HANGERASSY&HDW
KIT ANT UXA8-W59 TF-CC4FT HANGERASSY&HDW
PADX6-W59BC7S1R
ANT/RAD/SWAY BAR KIT PAD6-W59BC7S1R
Antenna/Radome Kit PADX6-W59BC1S1R
ANT UXA8-W59AC1S1 5.925-6.875
ANT/RAD/SWAY BAR KIT PAD8-W59AC7S1R
Antenna/Radome Kit PADX8-W59AC1S1R
ANT/RAD KIT PADX8-W59AC7S1R
ANT UXA10-W59AC1S1 5.925-6.875
Ant UXA10-W59ACSQ1E,10ft,6GHz,Extrm-Withr
ANT UXA12-W59AC1S1 5.925-6.875
Ant UXA12-W59ACSQ1E,12ft,6GHz,Extrm-Withr
Ant DAX15-59AC, 15ft, 6GHz, Dual Pol,CPR
Ant UXA8-W59ACU,8ft,6GHz,DP,250km,2 sway
SB4-W60EC
SBX4-W60EC
SB6-W60DC2
SBX6-W60DC2
SCX3-W60BC
Ant not int 3ft class3+ 6GHz-DP
Ant Not Int UXA4-59AC 4ft, 6GHz,DP
Ant Not Int DA10-59AC2,10f,6G,DP,Hgh-Wnd
ANT DA8-65AC1S1 6.425-7.125-GHz
Antenna DAX8-65AC1S1 6.425-7.125-GHz
ANT UXA8-65AC1S1 6.425-7.125-GHz
UXA6-65BD

ANT UXA6-65BC1S1 6.425-7.125 GHz
PAD10-65AC7S1R
PAD6-65BC7S1
PAD6-65BC7S1R
PAD8-65AC7S1R
ANT/RAD-KIT PAD6-65BC1SGR
Antenna/Radome Kit PAD8-65AC1SGR
SB6-W100CG
SC2-W100CG
SCX2-W100CG
SC3-W100BC
SCX3-W100BC
Ant Not Int 3ft DP UHP 10/11GHz
SB4-W100EG
SBX4-W100EG
SU4-107DCO
SB6-W100DC2
Ant DA6-107ACSQ1E, 6ft,11GHz, Extrm Wthr
SB4-W100EC2
SCX3-W100BC-MODG
UXA8-107AD
ANT UXA8-107AC1S1 10.7-11.7GHZ
ANT DAX8-107AC1S1 10.7-11.7GHZ
Ant Not Int 6ft DP UHP XPD 11GHz
ANT UXA6-107BC1S1 10.7-11.7GHZ
UXA6-107BC1SG -- 6ft Hi Perf Directive, CPR90G, Dual Pol Ant., Includes Radome (gray), 1 strut
ANT SU6-107BC1S1 10.7-11.7 GHz
ANT SUX6-107BC1S1 10.7-11.7GHZ
ANT SU6-107BC2S1 10.7-11.7 GHz
ANT/RAD/SWAY BAR KIT SU6-107BC7S1
KIT ANT UXA6-107 TF VB4FT HANGERASSY&HDW
SU4-107DD
SU4-107DC
Antenna SUX4-107DC2HG
SUX4-107DC
UXA4-107DD -- 4 ft Hi Perf Directive, PDR100, Dual Pol Ant., Includes Radome, 1 strut
Ant Not Int 4ft DP High XPD 11 GHz
Ant Not Int UXA4-107DC2,4ft,11G,DP,250km
UXA4-107DC
Ant not int 3ft class3+ 11GHz DP
SUX4-107DC1SG
SU4-107DC2
SUX4-107DC7
ANT MW 11GHz, 4ft, SHPX4 11W-6WH
UXA10-107AC8SG
ANTENNA, UHX10-107-P3A, PARABOLIC, 10.7-11.7GHZ, 10FT, CPRG FLANGE, GR
SUX4-107DC2HG
SUX4-107DC2H
UA8-107AC2
UXA6-107BC1SM
UXA6-107BD1S1
ANT SUX6-107BC1S1 10.7-11.7GHZ
Ant Not Int PADX6-107BCTS1R,6ft,11GHz,DP
ANT UXA8-107AC7SG 10.7-11.7GHZ
Ant DA8-107AC1S1, 8ft, 11GHz

Ant not int 3ft class4 13GHz DP
SCX2-142CB
Ant not int 3ft class4 15GHz DP
Ant Not Int 6ft 200 Km/h DP UHP 15 Ghz
Ant Not Int 6ft 250 Km/h SP UHP 15 Ghz
Ant Not Int 8ft DP UHP XPD 15GHz
SC2-190CB
SCX2-190CB
SC3-190BB
SCX3-190BB
Ant not int 3ft class4 18GHz DP
UXA4-190DB
UXA4-190DB1SM
SBX4-190EB
Ant Not Int 6ft DP UHP XPD 18GHz
Ant Not Int 6ft 250 Km/h DP UHP 18GHz
SCX2-220CB
Ant not int 3ft class4 23GHz DP
Ant not int 3ft class4 26GHz DP
Ant not int 3ft class4 28GHz DP
Ant not int 3ft class4 32GHz DP
Ant Not Int 3ft DP UHP 38GHz
Ant not int 3ft class4 38GHz DP
SBX4-220EB
KIT 250KMH 8FT STD BACK. SMA-WK-8
KIT 250KMH 10FT STD BACK. SMA-WK-10
Kit Sway Bar 4ft SL (SMA-WK-4) SB
KIT 250KMH 3FT 33/1000 —SMA-WK-3
kit 250 km/h 4ft var D UXA>10GHz + SB
KIT 250KMH 6Ft Adv Back. SMA-WK-6A
KIT SWAY BAR 4FT SB/SBX SMA-SK-4
Kit Sway Bar 6ft Refl (SMA-SK-60-2000A)
Sway Bar Kit 6ft SB6/SBX6 Antennas (SMA-SK-6)
Kit Sway Bar 8-12ft Refl (SMA-SK-60-3000A)
KIT SWAY-BAR SCX2 OMT PIPE 48/114
KIT ADDITIONAL SWAY-BAR SC3 SMA-SK-3
Sway Bar/Tower Universal Connecting Kit (SMA-SKO-Universal)
6ft Unheated Radome, Fiberglass (white deep)-
APD20-D-35XH0R00S0 , 120v, Lo psi, no purge, < 7800' 6-12GHz
APD20-D-35XH0R00S1 120v, 3-5psi, Lo psi alm, 10 day purge, < 7800' 6-12GHz
KIT, AE01D-D1658-100, MT050/MT/XT300 WALL SHELF
Dehydrator Wall Shelf for APD20 (20040835)
Gas Distribution Manifold, 2 Port, 0-15PSIG (920202)
Gas Distribution Manifold, 4 Port, 0-15PSIG (920204)
Gas Distribution Manifold, 6 Port, 0-15PSIG (920206)
Gas Distribution Manifold, 8 Port, 0-15PSIG (920208)
Automatic Dehydrator (APD20-D-35EH2R00S1), 120v, 3-5 psi, Hum alm, Lo psi, Hi psi, 10 day purge, < 7800ft 6-12GHz
Automatic Dehydrator (APD20-D-35EH2R24S1), 120v, 3-5 psi,-
Automatic Dehydrator (APD70-D-35XH0R00S0), Hi capacity (< 28K ft 6-12 GHz), Lo PSI, no purge.
Standard Elliptical Waveguide, E60 (5.6 – 6.425 GHz)
Premium Elliptical Waveguide, EP60 (5.6 – 6.425 GHz)
Connector, Tunable / CPR137G (bottom) (C137-060TG)
Connector, Non-Tunable / CPR137G (top) (C137-060FG)
Grounding Kit – 60in wire, E60 (GKIT-60-060)
Hanger Kit for E60 (CLAMP-060) (10 pack, bolt-on)

Angle Member Adapter Kit, 3/8in Stainless Steel (ANGLE-CLPI) (10 pack)
Angle Member Adapter Kit, 3/8in Stainless Steel (ANGLE-CLPI) (10 pack)
Ceiling Adapter Kit, 12in (CEIL12-5I, 514608-003) (5 pack) – waveguide only
Wall/Roof Feed Thru E/EP60 (WFT-060) – 1 per boot
Pressure Window (WPW-137EP) – mates to CPR137G
4in Boot with 1 Hole for E60 (BOOT4-060)
Standard Elliptical Waveguide E105 (10.0 – 11.7 GHz)
Premium Elliptical Waveguide EP105 (10.0 – 11.7 GHz)
Connector, Tunable (C90-105TG)
Connector, Non-Tunable (top) (C90-105FG)
Hoisting Grip (HOIST1-105L) – Lace-up (E105,E78)
Grounding Kit – 60in wire, E105 (GKIT-60-105)
Hanger Kit for E105, 7/8in coax (CLAMP-105) (10 pack, bolt-on)
Wall/Roof Feed Thru E/EP105 – 1 per boot (WFT-105)
Pressure Window (WPW-090EP) – mates to CPR90G
2ft Twistflex (TF090-CC1-024I) – CPR90G/CPR90G
4in Boot with 1 Hole for E105 (BOOT4-105)
Standard Elliptical Waveguide, E65 (5.9 – 7.125 GHz)
Premium Elliptical Waveguide, EP65 (5.9 – 7.125 GHz)
Connector, Tunable / CPR137G (C137-065TG)
Connector, Non-Tunable (top) (C137-065FG)
Grounding Kit – 60in wire, E65 (GKIT-60-065)
Hanger Kit for E65-70 (CLAMP-114) (10 pack, bolt-on, 1.25in)
Kit Hngr E/Ep65-10/Kt
Wall/Roof Feed Thru E/EP65 (WFT-065) – 1 per boot
Hardware Kit, HDWK3/8-16X1, 3/8 – 16 x 1 bolt (915006) – 10 each lock washers, hex nuts and fillister head screws
4in Boot with 1 Hole for E65 (BOOT4-065)
Standard Elliptical Waveguide, E185 (17.3 – 19.7 GHz)
Premium Elliptical Waveguide, EP185 (17.3 – 19.7 GHz)
Hoisting Grip (HOIST1-185L) – Lace-up (L12,E185)
Grounding Kit, 60in wire, E185 (GKIT-60-185)
Hanger Kit for E185 (CLAMP-185) (10 pack, bolt-on)
Wall/Roof Feed Thru (WF-185) – 1 per boot
Pressure Window (PW-BW220) PBR220/UBR220
4in Boot with 1 Hole for E185 (BOOT4-185)
Load Termination WR-90 / CPR90G Flange (91479)
Load Termination WR-137 / CPR137G Flange (915422)
Cover Plate kit WR-137 / CPR137G Flange (311372)
Cover Plate kit WR-90 / PDR100 or UDR100 Flange (10037094)
CPR137G Flange Rebuild Kit (when reusing antennas OR waveguide) (used at end only) (913412)
UNIV-ADJ-LEG-MT-UP TO 10 3/4 LEG (Ant. Pipe Mount/Ice Shield)
BASIC FEED 02-190 F2 BF 055 MM
VSTRUT-P3KIT,Inner, 4'-6' antenna, 5' pipe
Non-Penetrating Tripod (TRPD1 / TRPD-HD)
4-1/2" x 126" Mast Pipe (P4126)-
1/2"x18"x48" Rubber Mat (6 Required) (MAT18)
Ballast Tie Down Kit (3 Required) (BHD-K)
TUBING, POLYURETHANE 3/8 OD X .245 (per ft)
BOOT-BAZERO PROT RUB 4IN 4IN-BK
Ballast Tie Down Kit
Rubber-Mat 1/2inch x 18inch x 48inch
Heavy-Duty Non-Penetrating Tri
KIT-WTHPRF-CONNS&SPLICE
Angle Member Adapter Stainless Steel, 3/8in Thread Kit of 10
PIPE, P2126, SCHEDULE 40 PLAIN END HOT

Hanger, Stackable 1-5/8 10 Kit
Cable, 25-pr, Conn-Conn, 25, RTU-66 Blk
Fiber storage-pole/wall mount (100m) GR3108
FLEXWELL Elliptical Waveguide, 21.2 - 23.6 GHz (Per Ft) E220J
Connector FLEXWELL waveguide PBR220
Hanger Kit with three holes for EW90 wav
Grip Hoisting L114 E65 Lace-Up
Grip Hoisting L158 E60 Lace-Up
Hardware Kit for metric conversion (includes metric hardware, half-depth CPR90 gasket, and PDR100 gasket for PDR-100 fl)
Pressure Window (WPW-112EP) - mates to CPR112G
2ft Twistflex - CPR137G/CPR137G (TF137-CC1-024I)
2ft Twistflex - CPR112G/CPR112G (TF112-CC1-024I)
3ft Twistflex - HC Radio - PBR220/UBR220, Tin-plated flanges (TF220-BW3-090M)
3ft Twistflex - HC Radio - PDR70/UDR70 (TF070-DV1-090M)
3ft Twistflex - HC Radio - PBR100/PDR100 (TF100BD3-090M)
4ft Twistflex - non-integrated ODU300 (NOT HC!) to antenna - PBR100 flanges (1 per antenna) TF100-BV2-120M
4ft Twistflex - non-integrated ODU300 (NOT HC!) to antenna - PBR220 - UBR220 flanges (1 per antenna) (TF220-BW1-120M)
4ft Twistflex - HC Radio - PDR70/UDR70 (TF070-DV1-120M)
4ft Twistflex - HC Radio - PBR100/UBR100 (TF100-BW1-120M)
4ft Twistflex - HC Radio - Tin-plated, PBR100/PDR100 (TF100BD3-120M)
4ft Twistflex - non-integrated ODU300 (NOT HC!) to antenna - CPR137G flanges (1 per antenna) (TF137-CC1-048I)
4ft Twistflex - CPR90G/CPR90G (TF090-CC1-048I)
Ice Shield MWA Curved 8ft
Ice Shield MWA Curved 10ft
Twistflex hanger kit WR90 (916705)
Twistflex Hanger Kit WR42 (PBR220) - RFS does not have a 220 hanger - Andrew part: (244106A-220)
Twistflex hanger kit WR137 (916933)
3ft Twistflex (TF137-CC1-036I) - CPR137G/CPR137G
3ft Twistflex (TF090-CC1-036I) - CPR90G/CPR90G
Twistflex-Flexible Waveguide for Microwave Radio System, 11GHz, 1.2m - TF R-220 PBR/UBR 18.0-26.5-
1ft Twistflex (TF137-CC1-012I) - CPR137G/CPR137G
CLAMP SNAP-IN LCF158 Stack Kit 10 - HANGER, STACKABLE 1-5/8 10 KIT
Hoisting Grip (HOIST2-L01) - Lace-up, 2 loop
LMR400 (HS: 2 runs, NS: 1 run) + (if non-integ, dual pol and 2 channels: 2 runs) (TMS)
PPC Connector (compression) - straight male (3 per LMR run) (TMS)
PPC Connector (compression) - straight female (1 per LMR run) (TMS)
PPC Compression Tool (1 per deployment) (TMS)
LMR grounding kit (GKS400TF) (TMS)
Valmont flat Ice Shield - 4ft (ISMD4, 800250) - ADD PIPE MOUNT
Valmont flat Ice Shield - 6ft (ISMD6, 800251) - ADD PIPE MOUNT
Valmont flat Ice Shield - 8ft (ISMD8, 800252) - ADD PIPE MOUNT AND WELDMENT
Valmont flat Ice Shield - 10ft (ISMD10, 800253) - ADD PIPE MOUNT AND WELDMENT
Valmont Pipe Mount Extension weldment for Ice Shields (PME2, B1935)
Valmont ice shield KIT - 4ft (ISMD4-R5LL = 800250 (ice shield) + 409081365 (leg mount))
Valmont ice shield KIT - 6ft (ISMD6-R5LL = 800251 (ice shield) + 409081365 (leg mount))
Valmont ice shield KIT - 8ft (ISMD8-R5LL = 800252 (ice shield) + 409081365 (leg mount))
Valmont ice shield KIT - 10ft (ISMD10-R5LL = 800253 (ice shield) + 409081365 (leg mount))
Tieback Steel - Bulk Angle - 4" X 4" X 1/4" x 20' (ANG414) - (1 per antenna)
Bulk Pipe (for pipe mount) - 4 1/2" x 72" (Valmont: P472)
4 1/2" Universal Ring Mount (Valmont: 801068, LWRM) - PREFERRED - 1 required for 3' or smaller antennas
MTG-B1656-BRKT 0IN 0IN 0IN STL CHN-MNT *
FLUSH MOUNT ADAPTER DUAL LEVEL
HD Chain Mount with Stiff Arm (Valmont: B1649 + B1656, DCH8) NOT PREFERRED - 3 chains in kit, only 1 kit needed p
Universal Tubular-Arm Pipe Mount (Face Mount) (TAP-472)
1/2in Stainless Steel Banding Buckles (for monopole) (Valmont: BU254) - per 25

Bulk Pipe (for pipe mount) - 2-3/8in x 126in (Valmont: P2126)	
Hollow Wall Anchor Kit (HWK58)	
Solid Wall Anchor Kit (SWK58)	
Universal Pipe Mount (No Pipe) R5-UP - Accepts Mounting Pipes 1-1/2in to 4-1/2in	
Two Slider Brackets Wall Mount w/ Hardware - (4 1/2in) (SBWM-412)	
LDF4.5-50 (5/8in coax)	
LMR Cushion Hanger (4 hole) - (Valmont: B1676, SRLR44-K) - complete with clamp and clamp head (5 per package)	
BRL Cushion BC141X 1-5/8,10@0.24,10p (Valmont BC1410)	
\$	28.75
\$	91.00
\$	4,432.05
\$	3,300.00
\$	125.00
\$	1,754.00
\$	1,500.00
\$	1,000.00
\$	100.00
\$	100.00
\$	310.00
\$	340.00
\$	2,500.00
\$	1,425.00
\$	345.00
\$	3,250.00
\$	3,900.00
\$	1,940.00
\$	3,950.00
\$	5,575.00
\$	6,175.00
\$	3,050.00
\$	1,230.00
\$	700.00
\$	1,175.00
\$	5,200.00
\$	710.00
\$	1,350.00
\$	4,640.00
\$	1,010.00
\$	501.00
\$	501.00
\$	875.00
\$	1,915.00
\$	2,075.00
\$	1,045.00
\$	1,785.00
\$	2,625.00
\$	755.00
\$	2,650.00
\$	5,300.00
\$	1,500.00
\$	850.00
\$	1,500.00
\$	850.00
\$	1,750.00

\$	2,375.00
\$	1,575.00
\$	2,000.00
\$	2,000.00
\$	52.00
\$	71.00
\$	2,915.00
\$	1,395.00
\$	1,995.00
\$	2,856.00
\$	1,059.00
\$	725.00
\$	840.00
\$	1,030.00
\$	250.00
\$	250.00
\$	330.00
\$	95.00
\$	72.00
\$	272.00
\$	140.94
\$	1,984.00
\$	1,984.00
\$	1,984.00
\$	1,984.00
\$	759.00
\$	1,500.00

R56 Grounding and Router Integration	
NASPO ValuePoint MSRP	
\$	1,192.42
\$	1.82
\$	1.85
\$	0.23
\$	0.08
\$	0.38
\$	0.18
\$	78.03

\$	525.00
\$	825.00
\$	1,100.00
\$	831.89
\$	1,518.08
Per Man Hour	

Per Test Element

Per Hour

Per Hour

Microwave Ant. 11GHz 2ft VHLP2-11W-6WH/A
Automatic Dehydrator (MT500B-81315), 0.5 CFM, Full Alarm, 6 GHz: Min 900ft w/g, Max 10,000ft w/g. 11 GHz: Min 3
WG 11GHz,one conn,430ft EWP90-107-10F430
WG 11GHz,one conn,320ft EWP90-107-10F320
Static Dessicator Kit SD-003-KIT1
4" Boot (WGB4-180)--for EW180
Hanger Kit
CA COAX-LDF4-50A 0.5IN 50OHM BC SOLID C Per Meter

Connector / N Female, Plated, Ringflare (L4.5PNF-RC)	
\$	250.00
\$	21,000.00
\$	126.00
\$	232.00
\$	275.00
\$	350.00
\$	275.00
\$	1,229.00
\$	400.00
\$	1,250.00
\$	350.00
\$	5,875.00
\$	4,750.00
\$	8,200.00
\$	8,775.00
\$	915.00
\$	615.00

\$	1,400.00
\$	1,100.00
\$	1,100.00
\$	1,650.00
\$	1,825.00
\$	1,825.00
\$	950.00
\$	1,100.00
\$	3,850.00
\$	3,850.00
\$	1,600.00
\$	1,850.00
\$	1,850.00
\$	1,850.00
\$	1,850.00
\$	2,900.00
\$	2,700.00
\$	1,245.00
\$	3,650.00
\$	3,650.00
\$	1,625.00
\$	1,800.00
\$	1,800.00
\$	1,100.00
\$	2,372.00
\$	2,369.00
\$	3,084.00
\$	3,124.00
\$	2,372.00
\$	2,369.00
\$	2,045.00
\$	99.00
\$	2,540.00
\$	2,257.00
\$	4,875.00
\$	5,723.00
\$	4,700.00
\$	2,850.00
\$	2,825.00
\$	2,350.00
\$	2,325.00
\$	2,750.00
\$	2,800.00
\$	6,947.00
\$	99.00
\$	77.00
\$	320.00
\$	190.00
\$	72.00
VHLPX4-6W-6WH- 4' Hi Perf, Dual Pol A	
Dehydrator MT050C, 115/230 Vac, 50/60 Hz	

HELIAX Elliptical Waveguide, EWP63-59W
1 5/8 Grounding Kit (EW52, EW63, EW64), 60: Field attach lug
Connector, Tunable / CPR137G (bottom & top) (163SE)
Connector
Hanger Kit
Hanger Kit

NASPO ValuePoint Discount %	NASPO ValuePoint Unit Price	
~~34.00%~~	~~\$ 564.30~~	Outdated 4/5/2022
~~34.00%~~	~~\$ 1,138.50~~	Outdated 4/5/2022
~~34.00%~~	~~\$ 666.60~~	Outdated 4/5/2022
~~34.00%~~	~~\$ 693.00~~	Outdated 4/5/2022
~~34.00%~~	~~\$ 825.00~~	Outdated 4/5/2022
~~34.00%~~	~~\$ 33.00~~	Outdated 4/5/2022
~~34.00%~~	~~\$ 828.30~~	Outdated 4/5/2022
~~34.00%~~	~~\$ 37.29~~	Outdated 4/5/2022
~~34.00%~~	~~\$ 15,180.00~~	Delete 4/5/2022
~~34.00%~~	~~\$ 109.95~~	Delete 4/5/2022
~~34.00%~~	~~\$ 2,947.96~~	Outdated 4/5/2022
~~34.00%~~	~~\$ 159.59~~	Delete 4/5/2022
~~34.00%~~	~~\$ 924.00~~	Delete 4/5/2022
~~68.00%~~	~~\$ 39.36~~	Outdated 4/5/2022
~~68.00%~~	~~\$ 27.84~~	Outdated 4/5/2022
~~34.00%~~	~~\$ 33.00~~	Outdated 4/5/2022
~~68.00%~~	~~\$ 304.00~~	Delete 4/5/2022
~~68.00%~~	~~\$ 601.28~~	Outdated 4/5/2022
~~34.00%~~	~~\$ 165.00~~	Outdated 4/5/2022
~~68.00%~~	~~\$ 1,600.00~~	Delete 4/5/2022
~~68.00%~~	~~\$ 611.20~~	Outdated 4/5/2022
~~68.00%~~	~~\$ 64.00~~	Delete 4/5/2022
~~68.00%~~	~~\$ 67.20~~	Delete 4/5/2022
~~34.00%~~	~~\$ 479.93~~	Outdated 4/5/2022
~~34.00%~~	~~\$ 92.40~~	Outdated 4/5/2022
~~68.00%~~	~~\$ 944.00~~	Delete 4/5/2022
~~68.00%~~	~~\$ 688.00~~	Outdated 4/5/2022
~~68.00%~~	~~\$ 688.00~~	Outdated 4/5/2022
~~68.00%~~	~~\$ 480.00~~	Outdated 4/5/2022
~~68.00%~~	~~\$ 480.00~~	Outdated 4/5/2022
~~68.00%~~	~~\$ 300.80~~	Outdated 4/5/2022
~~68.00%~~	~~\$ 308.16~~	Delete 4/5/2022
~~68.00%~~	~~\$ 1,750.40~~	Outdated 4/5/2022
~~68.00%~~	~~\$ 112.00~~	Delete 4/5/2022
~~68.00%~~	~~\$ 220.80~~	Delete 4/5/2022
~~68.00%~~	~~\$ 219.20~~	Delete 4/5/2022
~~68.00%~~	~~\$ 220.80~~	Delete 4/5/2022
~~68.00%~~	~~\$ 296.00~~	Delete 4/5/2022
~~68.00%~~	~~\$ 432.00~~	Delete 4/5/2022
~~68.00%~~	~~\$ 406.40~~	Delete 4/5/2022
~~68.00%~~	~~\$ 428.80~~	Delete 4/5/2022

Size (ft)	# Struts	Pol	NASPO ValuePoint MSRP	NASPO ValuePoint Discount %	NASPO ValuePoint Unit Price
3	0	Single	\$ 2,250.00	60.00%	\$ 900.00
3	0	Dual	\$ 2,365.00	60.00%	\$ 946.00
4	1	Single	\$ 3,880.00	60.00%	\$ 1,552.00
4	1	Single	\$ 3,880.00	60.00%	\$ 1,552.00
4	1	Dual	\$ 4,252.00	60.00%	\$ 1,700.80
6	1	Single	\$ 9,790.00	60.00%	\$ 3,916.00
6	1	Single	\$ 9,512.00	60.00%	\$ 3,804.80
6	1	Dual	\$ 10,670.00	60.00%	\$ 4,268.00
2	0	Single	\$ 1,415.00	60.00%	\$ 566.00
2	0	Dual	\$ 1,555.00	60.00%	\$ 622.00
3	0	Single	\$ 1,950.00	60.00%	\$ 780.00
3	0	Dual	\$ 2,050.00	60.00%	\$ 820.00
4	1	Single	\$ 3,800.00	60.00%	\$ 1,520.00
4	1	Dual	\$ 3,988.00	60.00%	\$ 1,595.20
6	1	Single	\$ 8,365.00	60.00%	\$ 3,346.00
6	1	Dual	\$ 10,260.00	60.00%	\$ 4,104.00
2	0	Dual	\$ 1,305.00	60.00%	\$ 522.00
3	0	Single	\$ 2,202.00	60.00%	\$ 880.80
4	1	Single	\$ 6,655.00	60.00%	\$ 2,662.00
1	0	Single	\$ 1,051.00	60.00%	\$ 420.40
1	0	Dual	\$ 1,051.00	60.00%	\$ 420.40
2	0	Dual	\$ 1,308.00	60.00%	\$ 523.20
4	1	Single	\$ 3,953.00	60.00%	\$ 1,581.20
6	1	Single	\$ 7,310.00	60.00%	\$ 2,924.00
1	0	Single	\$ 741.00	60.00%	\$ 296.40
1	0	Dual	\$ 741.00	60.00%	\$ 296.40

3	0	Single	\$ 2,002.00	60.00%	\$ 800.80
3	0	Dual	\$ 2,002.00	60.00%	\$ 800.80
4	1	Single	\$ 3,094.00	60.00%	\$ 1,237.60
6	1	Single	\$ 7,356.00	60.00%	\$ 2,942.40
6	1	Dual	\$ 7,356.00	60.00%	\$ 2,942.40
1	0	Dual	\$ 757.00	60.00%	\$ 302.80
1	0	Single	\$ 741.00	60.00%	\$ 296.40
1	0	Dual	\$ 727.00	60.00%	\$ 290.80
3	0	Single	\$ 1,862.00	60.00%	\$ 744.80
3	0	Dual	\$ 1,862.00	60.00%	\$ 744.80
4	1	Dual	\$ 3,052.00	60.00%	\$ 1,220.80
6	1	Single	\$ 7,344.00	60.00%	\$ 2,937.60
6	1	Dual	\$ 7,344.00	60.00%	\$ 2,937.60
1	0	Single	\$ 1,050.00	60.00%	\$ 420.00
1	0	Dual	\$ 1,057.00	60.00%	\$ 422.80
2	0	Single	\$ 1,282.00	60.00%	\$ 512.80
2	0	Dual	\$ 1,282.00	60.00%	\$ 512.80
3	0	Single	\$ 2,292.00	60.00%	\$ 916.80
3	0	Dual	\$ 2,292.00	60.00%	\$ 916.80
4	1	Single	\$ 3,994.00	60.00%	\$ 1,597.60
4	1	Dual	\$ 3,994.00	60.00%	\$ 1,597.60
1	0	Single	\$ 741.00	60.00%	\$ 296.40
1	0	Dual	\$ 850.00	60.00%	\$ 340.00
2	0	Single	\$ 1,288.00	60.00%	\$ 515.20
2	0	Dual	\$ 1,288.00	60.00%	\$ 515.20
1	0	Single	\$ 741.00	60.00%	\$ 296.40
1	0	Dual	\$ 748.00	60.00%	\$ 299.20
2	0	Single	\$ 978.00	60.00%	\$ 391.20
2	0	Dual	\$ 978.00	60.00%	\$ 391.20
1	0	Single	\$ 1,050.00	60.00%	\$ 420.00
1	0	Dual	\$ 1,050.00	60.00%	\$ 420.00
2	0	Single	\$ 1,282.00	60.00%	\$ 512.80
2	0	Dual	\$ 1,282.00	60.00%	\$ 512.80
1	0	Single	\$ 1,488.00	60.00%	\$ 595.20
1	0	Single	\$ 1,377.00	60.00%	\$ 550.80
1	0	Dual	\$ 4,412.00	60.00%	\$ 1,764.80
1	0	Dual	\$ 4,522.00	60.00%	\$ 1,808.80
2	0	Single	\$ 1,921.00	60.00%	\$ 768.40
2	0	Dual	\$ 4,955.00	60.00%	\$ 1,982.00

30.00%	~~\$ 7,350.00~~	Remove 4/5/2022
30.00%	~~\$ 9,450.00~~	Remove 4/5/2022
30.00%	~~\$ 13,650.00~~	Remove 4/5/2022
30.00%	~~\$ 19,950.00~~	Remove 4/5/2022
30.00%	~~\$ 28,350.00~~	Remove 4/5/2022
30.00%	~~\$ 32,550.00~~	Remove 4/5/2022
30.00%	~~\$ 36,750.00~~	Remove 4/5/2022
30.00%	~~\$ 8,400.00~~	Outdated 4/5/2022
30.00%	~~\$ 3,024.00~~	Outdated 4/5/2022
30.00%	~~\$ 4,032.00~~	Outdated 4/5/2022
30.00%	~~\$ 1,428.00~~	Remove 4/5/2022

2	0	\$ ~~2,762.76~~	60.00%	\$1,105.10	Remove 4/5/2022
6	1	\$ ~~4,695.32~~	60.00%	\$1,878.13	Remove 4/5/2022
6	1	\$ ~~7,199.99~~	60.00%	\$2,880.00	Remove 4/5/2022
10	1	\$ ~~18,726.62~~	60.00%	\$7,490.65	Outdated 4/5/2022
6	2	\$ ~~10,660.51~~	60.00%	\$4,264.20	Outdated 4/5/2022
8	2	\$ ~~15,700.51~~	60.00%	\$6,280.20	Outdated 4/5/2022
6	1	\$ ~~17,129.49~~	60.00%	\$6,851.80	Outdated 4/5/2022
8	1	\$ ~~21,260.26~~	60.00%	\$8,504.10	Outdated 4/5/2022
10	1	\$ ~~25,358.69~~	60.00%	\$10,143.48	Outdated 4/5/2022
8	1	\$ ~~17,275.51~~	60.00%	\$6,910.20	Outdated 4/5/2022
4	1	\$ ~~5,594.40~~	60.00%	\$2,237.76	Outdated 4/5/2022
6	2	\$ ~~8,860.53~~	60.00%	\$3,544.21	Outdated 4/5/2022
8	2	\$ ~~11,902.94~~	60.00%	\$4,761.18	Outdated 4/5/2022
8	1	\$ ~~13,783.80~~	60.00%	\$5,513.52	Outdated 4/5/2022
8	1	\$ ~~17,770.50~~	60.00%	\$7,108.20	Outdated 4/5/2022
6	2	\$ ~~11,110.47~~	60.00%	\$4,444.19	Outdated 4/5/2022
8	2	\$ ~~16,150.47~~	60.00%	\$6,460.19	Outdated 4/5/2022
10	2	\$ ~~21,100.52~~	60.00%	\$8,440.21	Outdated 4/5/2022
6	1	\$ ~~17,860.50~~	60.00%	\$7,144.20	Outdated 4/5/2022
8	1	\$ ~~24,700.48~~	60.00%	\$9,880.19	Outdated 4/5/2022
6	1	\$ ~~11,695.53~~	60.00%	\$4,678.21	Outdated 4/5/2022
6	1	\$ ~~18,445.49~~	60.00%	\$7,378.20	Outdated 4/5/2022
10	1	\$ ~~29,200.50~~	60.00%	\$11,680.20	Outdated 4/5/2022
8	1	\$ ~~13,772.99~~	60.00%	\$5,509.20	Outdated 4/5/2022
8	1	\$ ~~15,746.65~~	60.00%	\$6,298.66	Outdated 4/5/2022
12	1	\$ ~~31,496.00~~	60.00%	\$12,598.40	Remove 4/5/2022
12	1	\$ ~~28,517.65~~	60.00%	\$11,407.06	Outdated 4/5/2022
6	1	\$ ~~14,895.23~~	60.00%	\$5,958.09	Outdated 4/5/2022
8	1	\$ ~~19,294.52~~	60.00%	\$7,717.81	Outdated 4/5/2022
10	1	\$ ~~23,387.98~~	60.00%	\$9,355.19	Outdated 4/5/2022
8	1	\$ ~~24,070.48~~	60.00%	\$9,628.19	Outdated 4/5/2022
12	1	\$ ~~37,345.49~~	60.00%	\$14,938.20	Outdated 4/5/2022
12	1	\$ ~~32,170.53~~	60.00%	\$12,868.21	Outdated 4/5/2022
6	1	\$ ~~12,595.52~~	60.00%	\$5,038.21	Outdated 4/5/2022
6	2	\$ ~~8,747.83~~	60.00%	\$3,499.13	Outdated 4/5/2022
8	1	\$ ~~8,245.02~~	60.00%	\$3,298.01	Outdated 4/5/2022
8	1	\$ ~~11,393.34~~	60.00%	\$4,557.34	Outdated 4/5/2022
8	1	\$ ~~13,945.47~~	60.00%	\$5,578.19	Remove 4/5/2022
8	2	\$ ~~12,350.38~~	60.00%	\$4,940.15	Outdated 4/5/2022
10	1	\$ ~~11,827.69~~	60.00%	\$4,731.08	Remove 4/5/2022
10	1	\$ ~~16,442.30~~	60.00%	\$6,576.92	Outdated 4/5/2022
6	1	\$ ~~16,565.43~~	60.00%	\$6,626.17	Outdated 4/5/2022
8	1	\$ ~~20,551.93~~	60.00%	\$8,220.77	Outdated 4/5/2022
6	1	\$ ~~19,692.26~~	60.00%	\$7,876.90	Outdated 4/5/2022
8	1	\$ ~~23,629.76~~	60.00%	\$9,451.90	Outdated 4/5/2022
6	2	\$ ~~10,210.48~~	60.00%	\$4,084.19	Outdated 4/5/2022
6	2	\$ ~~8,860.53~~	60.00%	\$3,544.21	Outdated 4/5/2022
6	1	\$ ~~9,445.52~~	60.00%	\$3,778.21	Outdated 4/5/2022
8	1	\$ ~~19,444.53~~	60.00%	\$7,777.81	Outdated 4/5/2022
8	1	\$ ~~12,145.98~~	60.00%	\$4,858.39	Remove 4/5/2022
8	2	\$ ~~13,450.50~~	60.00%	\$5,380.20	Outdated 4/5/2022
8	2	\$ ~~15,250.48~~	60.00%	\$6,100.19	Outdated 4/5/2022
10	1	\$ ~~23,400.02~~	60.00%	\$9,360.01	Outdated 4/5/2022
12	1	\$ ~~31,870.51~~	60.00%	\$12,748.20	Outdated 4/5/2022
4	1	\$ ~~10,570.49~~	60.00%	\$4,228.20	Remove 4/5/2022

4	1	\$ ~~4,678.45~~	60.00%	\$1,871.38	Outdated 4/5/2022
4	1	\$ ~~5,316.99~~	60.00%	\$2,126.80	Outdated 4/5/2022
6	1	\$ ~~8,509.76~~	60.00%	\$3,403.90	Outdated 4/5/2022
6	1	\$ ~~9,148.30~~	60.00%	\$3,659.32	Outdated 4/5/2022
3	0	\$ ~~2,422.28~~	60.00%	\$968.91	Remove 4/5/2022
3	0	\$ ~~3,060.82~~	60.00%	\$1,224.33	Outdated 4/5/2022
4	1	\$ ~~5,530.49~~	60.00%	\$2,212.20	Remove 4/5/2022
8	1	\$ ~~13,772.99~~	60.00%	\$5,509.20	Outdated 4/5/2022
8	1	\$ ~~19,294.52~~	60.00%	\$7,717.81	Outdated 4/5/2022
6	1	\$ ~~15,357.02~~	60.00%	\$6,142.81	Outdated 4/5/2022
6	1	\$ ~~11,915.34~~	60.00%	\$4,766.14	Remove 4/5/2022
6	1	\$ ~~14,895.23~~	60.00%	\$5,958.09	Outdated 4/5/2022
10	2	\$ ~~17,502.03~~	60.00%	\$7,000.81	Remove 4/5/2022
6	1	\$ ~~7,285.53~~	60.00%	\$2,914.21	Outdated 4/5/2022
6	2	\$ ~~8,860.53~~	60.00%	\$3,544.21	Outdated 4/5/2022
8	2	\$ ~~12,243.84~~	60.00%	\$4,897.54	Outdated 4/5/2022
6	1	\$ ~~9,445.52~~	60.00%	\$3,778.21	Outdated 4/5/2022
8	1	\$ ~~13,405.21~~	60.00%	\$5,362.08	Outdated 4/5/2022
2	0	\$ ~~1,485.75~~	60.00%	\$594.30	Outdated 4/5/2022
2	0	\$ ~~2,124.22~~	60.00%	\$849.69	Outdated 4/5/2022
3	0	\$ ~~2,081.66~~	60.00%	\$832.66	Outdated 4/5/2022
3	0	\$ ~~2,628.50~~	60.00%	\$1,051.40	Outdated 4/5/2022
4	1	\$ ~~4,678.45~~	60.00%	\$1,871.38	Outdated 4/5/2022
4	1	\$ ~~5,316.99~~	60.00%	\$2,126.80	Outdated 4/5/2022
4	1	\$ ~~7,908.39~~	60.00%	\$3,163.36	Outdated 4/5/2022
6	1	\$ ~~9,445.52~~	60.00%	\$3,778.21	Outdated 4/5/2022
6	1	\$ ~~8,722.56~~	60.00%	\$3,489.02	Remove 4/5/2022
4	1	\$ ~~5,530.49~~	60.00%	\$2,212.20	Outdated 4/5/2022
4	1	\$ ~~6,205.50~~	60.00%	\$2,482.20	Remove 4/5/2022
3	0	\$ ~~3,501.05~~	60.00%	\$1,400.42	Remove 4/5/2022
3	0	\$ ~~3,775.52~~	60.00%	\$1,510.21	Outdated 4/5/2022
8	1	\$ ~~21,829.50~~	60.00%	\$8,731.80	Outdated 4/5/2022
10	1	\$ ~~26,995.51~~	60.00%	\$10,798.20	Remove 4/5/2022
8	1	\$ ~~19,294.52~~	60.00%	\$7,717.81	Outdated 4/5/2022
8	1	\$ ~~14,520.03~~	60.00%	\$5,808.01	Outdated 4/5/2022
6	1	\$ ~~14,900.23~~	60.00%	\$5,960.09	Outdated 4/5/2022
6	1	\$ ~~17,095.47~~	60.00%	\$6,838.19	Outdated 4/5/2022
6	1	\$ ~~11,063.99~~	60.00%	\$4,425.60	Outdated 4/5/2022
6	1	\$ ~~11,915.34~~	60.00%	\$4,766.14	Outdated 4/5/2022
6	1	\$ ~~12,595.53~~	60.00%	\$5,038.21	Outdated 4/5/2022
3	0	\$ ~~7,385.00~~	60.00%	\$2,954.00	Remove 4/5/2022
6	1	\$ ~~10,468.36~~	60.00%	\$4,187.34	Outdated 4/5/2022
6	1	\$ ~~18,308.43~~	60.00%	\$7,323.37	Outdated 4/5/2022
4	1	\$ ~~8,095.50~~	60.00%	\$3,238.20	Outdated 4/5/2022
4	1	\$ ~~7,663.35~~	60.00%	\$3,065.34	Outdated 4/5/2022
4	1	\$ ~~8,514.76~~	60.00%	\$3,405.90	Outdated 4/5/2022
4	1	\$ ~~9,895.48~~	60.00%	\$3,958.19	Outdated 4/5/2022
4	1	\$ ~~9,366.17~~	60.00%	\$3,746.47	Outdated 4/5/2022
4	1	\$ ~~11,020.52~~	60.00%	\$4,408.21	Remove 4/5/2022
4	1	\$ ~~9,220.47~~	60.00%	\$3,688.19	Remove 4/5/2022
4	1	\$ ~~10,120.53~~	60.00%	\$4,048.21	Outdated 4/5/2022
4	1	\$ ~~8,680.49~~	60.00%	\$3,472.20	Outdated 4/5/2022
4	1	\$ ~~9,445.52~~	60.00%	\$3,778.21	Outdated 4/5/2022
4	1	\$ ~~10,570.49~~	60.00%	\$4,228.20	Remove 4/5/2022
10	1	\$ ~~31,225.53~~	60.00%	\$12,490.21	Outdated 4/5/2022

4	1	\$ 10,930.50	60.00%	\$4,372.20	Outdated 4/5/2022
8	1	\$ 19,120.50	60.00%	\$7,648.20	Outdated 4/5/2022
6	1	\$ 18,895.45	60.00%	\$7,558.18	Outdated 4/5/2022
6	1	\$ 15,357.00	60.00%	\$6,142.80	Outdated 4/5/2022
8	1	\$ 24,925.53	60.00%	\$9,970.21	Outdated 4/5/2022
4	1	\$ 4,891.32	60.00%	\$1,956.53	Remove 4/5/2022
6	1	\$ 15,745.52	60.00%	\$6,298.21	Remove 4/5/2022
4	1	\$ 5,170.55	60.00%	\$2,068.22	Remove 4/5/2022
4	1	\$ 9,361.17	60.00%	\$3,744.47	Remove 4/5/2022
2	0	\$ 1,911.42	60.00%	\$764.57	Outdated 4/5/2022
2	0	\$ 1,272.81	60.00%	\$509.12	Outdated 4/5/2022
2	0	\$ 1,911.42	60.00%	\$764.57	Outdated 4/5/2022
3	0	\$ 1,953.98	60.00%	\$781.59	Outdated 4/5/2022
3	0	\$ 2,592.45	60.00%	\$1,036.98	Outdated 4/5/2022
4	1	\$ 9,361.17	60.00%	\$3,744.47	Outdated 4/5/2022
4	1	\$ 12,820.50	60.00%	\$5,128.20	Outdated 4/5/2022
4	1	\$ 4,891.32	0.00%	\$4,891.32	Outdated 4/5/2022
2	0	\$ 6,745.48	0.00%	\$6,745.48	Remove 4/5/2022
1	0	\$ 847.14	0.00%	\$847.14	Remove 4/5/2022
4	1	\$ 4,495.47	0.00%	\$4,495.47	Remove 4/5/2022
6	1	\$ 6,782.09	0.00%	\$6,782.09	Remove 4/5/2022
6	1	\$ 8,613.01	0.00%	\$8,613.01	Remove 4/5/2022
4	1	\$ 5,755.54	0.00%	\$5,755.54	Remove 4/5/2022
4	1	\$ 9,361.17	0.00%	\$9,361.17	Remove 4/5/2022
1	0	\$ 2,285.75	0.00%	\$2,285.75	Remove 4/5/2022
2	0	\$ 1,272.81	0.00%	\$1,272.81	Remove 4/5/2022
2	0	\$ 1,911.42	0.00%	\$1,911.42	Outdated 4/5/2022
3	0	\$ 2,592.45	60.00%	\$1,036.98	Remove 4/5/2022
4	1	\$ 5,170.48	60.00%	\$2,068.19	Outdated 4/5/2022
1	0	\$ 1,485.75	60.00%	\$594.30	Remove 4/5/2022
2	0	\$ 1,911.42	60.00%	\$764.57	Remove 4/5/2022
		\$ 700.00	60.00%	\$280.00	Remove 4/5/2022
		\$ 650.00	60.00%	\$260.00	Moved 4/5/2022
		\$ 630.00	60.00%	\$252.00	Remove 4/5/2022
		\$ 4,725.00	60.00%	\$1,890.00	Outdated 4/5/2022
		\$ 4,725.00	60.00%	\$1,890.00	Outdated 4/5/2022
		\$ 9,375.00	60.00%	\$3,750.00	Moved 4/19/2022
		\$ 6,724.97	60.00%	\$2,689.99	Outdated 4/5/2022
		\$ 7,224.98	60.00%	\$2,889.99	Outdated 4/5/2022
		\$ 6,724.97	60.00%	\$2,689.99	Outdated 4/5/2022
00ft w/g, Max 33,000ft w/g		\$ 9,500.00	60.00%	\$3,800.00	Moved 4/19/2022
		\$ 33.95	60.00%	\$13.58	Outdated 4/5/2022
		\$ 37.03	60.00%	\$14.81	Outdated 4/5/2022
		\$ 26.74	60.00%	\$10.70	Outdated 4/5/2022
		\$ 32.48	60.00%	\$12.99	Outdated 4/5/2022
		\$ 31.22	60.00%	\$12.49	Outdated 4/5/2022
		\$ 19.88	60.00%	\$7.95	Outdated 4/5/2022
		\$ 23.17	60.00%	\$9.27	Outdated 4/5/2022
		\$ 205.48	60.00%	\$82.19	Remove 4/5/2022
		\$ 56.90	60.00%	\$22.76	Moved 4/19/2022
		\$ 70.00	60.00%	\$28.00	Outdated 4/5/2022
		\$ 72.87	60.00%	\$29.15	Outdated 4/5/2022
		\$ 205.48	60.00%	\$82.19	Remove 4/5/2022
		\$ 63.50	60.00%	\$25.40	Moved 4/19/2022
		\$ 958.75	60.00%	\$383.50	Moved 4/19/2022

		~~\$ 969.99~~	~~60.00%~~	~~\$388.00~~	Outdated 4/5/2022
		~~\$ 85.45~~	~~60.00%~~	~~\$34.18~~	Outdated 4/5/2022
		~~\$ 70.50~~	~~60.00%~~	~~\$28.20~~	Outdated 4/5/2022
		~~\$ 750.00~~	~~60.00%~~	~~\$300.00~~	Outdated 4/5/2022
		~~\$ 3,036.00~~	~~60.00%~~	~~\$1,214.40~~	Outdated 4/5/2022
		~~\$ 85.00~~	~~60.00%~~	~~\$34.00~~	Outdated 4/5/2022

			Remove 4/5/2022
~~\$ 7,865.71~~	~~65.00%~~	~~\$ 2,753.00~~	Remove 4/5/2022
~~\$ 7,865.71~~	~~65.00%~~	~~\$ 2,753.00~~	Remove 4/5/2022
~~\$ 6,293.71~~	~~65.00%~~	~~\$ 2,202.80~~	Remove 4/5/2022
~~\$ 7,865.71~~	~~65.00%~~	~~\$ 2,753.00~~	Remove 4/5/2022
~~\$ 11,428.57~~	~~65.00%~~	~~\$ 4,000.00~~	Remove 4/5/2022
~~\$ 142.86~~	~~65.00%~~	~~\$ 50.00~~	Remove 4/5/2022
~~\$ 285.71~~	~~65.00%~~	~~\$ 100.00~~	Remove 4/5/2022
~~\$ 4,085.71~~	~~65.00%~~	~~\$ 1,430.00~~	Remove 4/5/2022
~~\$ 142.86~~	~~65.00%~~	~~\$ 50.00~~	Remove 4/5/2022
~~\$ 285.71~~	~~65.00%~~	~~\$ 100.00~~	Remove 4/5/2022

1	0	~~\$ 1,964.70~~	~~60.00%~~	~~\$785.88~~	Outdated 4/5/2022
3	0	~~\$ 6,500.00~~	~~60.00%~~	~~\$2,600.00~~	Outdated 4/5/2022
6	1	~~\$ 13,481.90~~	~~60.00%~~	~~\$5,392.76~~	Remove 4/5/2022
3	0	~~\$ 2,750.00~~	~~60.00%~~	~~\$1,100.00~~	Remove 4/5/2022
		~~\$ 20.20~~	~~60.00%~~	~~\$8.08~~	Remove 4/5/2022
		~~\$ 554.40~~	~~60.00%~~	~~\$221.76~~	Remove 4/5/2022
		~~\$ 143.77~~	~~60.00%~~	~~\$57.51~~	Dupe
		~~\$ 652.82~~	~~60.00%~~	~~\$261.13~~	Outdated 4/5/2022
		~~\$ 24.30~~	~~60.00%~~	~~\$9.72~~	Outdated 4/5/2022
		~~\$ 157.65~~	~~60.00%~~	~~\$63.06~~	Outdated 4/5/2022
		~~\$ 143.77~~	~~60.00%~~	~~\$57.51~~	Dupe

2	0	Single	~~\$ 2,250.00~~	~~60.00%~~	~~\$ 900.00~~
2	0	Dual	~~\$ 1,875.00~~	~~60.00%~~	~~\$ 750.00~~
3	0	Single	~~\$ 2,750.00~~	~~60.00%~~	~~\$ 1,100.00~~
3	0	Single	~~\$ 2,750.00~~	~~60.00%~~	~~\$ 1,100.00~~
3	0	Single/Dual	~~\$ 3,304.00~~	~~60.00%~~	~~\$ 1,321.60~~
4	1	Single	~~\$ 4,400.00~~	~~60.00%~~	~~\$ 1,760.00~~
4	1	Single	~~\$ 3,330.00~~	~~60.00%~~	~~\$ 1,332.00~~
4	1	Dual	~~\$ 3,955.00~~	~~60.00%~~	~~\$ 1,582.00~~
6	1	Single	~~\$ 8,603.00~~	~~60.00%~~	~~\$ 3,441.20~~
6	1	Dual	~~\$ 8,603.00~~	~~60.00%~~	~~\$ 3,441.20~~
6		Single	~~\$ 15,000.00~~	~~60.00%~~	~~\$ 6,000.00~~
6		Single	~~\$ 6,000.00~~	~~60.00%~~	~~\$ 2,400.00~~
6		Dual	~~\$ 6,000.00~~	~~60.00%~~	~~\$ 2,400.00~~
2	0	Single	~~\$ 1,292.00~~	~~60.00%~~	~~\$ 516.80~~
2	0	Single	~~\$ 1,292.00~~	~~60.00%~~	~~\$ 516.80~~
2	0	Dual	~~\$ 1,292.00~~	~~60.00%~~	~~\$ 516.80~~
2	0	Dual	~~\$ 1,292.00~~	~~60.00%~~	~~\$ 516.80~~
3	0	Single	~~\$ 2,571.00~~	~~60.00%~~	~~\$ 1,028.40~~

3	0	Single	\$ 2,571.00	60.00%	\$ 1,028.40
3	0	Dual	\$ 2,571.00	60.00%	\$ 1,028.40
3	0	Dual	\$ 2,571.00	60.00%	\$ 1,028.40
3		Single/Dual	\$ 3,200.00	60.00%	\$ 1,280.00
4	1	Single	\$ 4,250.00	60.00%	\$ 1,700.00
4	1	Single	\$ 4,250.00	60.00%	\$ 1,700.00
4	1	Dual	\$ 4,250.00	60.00%	\$ 1,700.00
4	1	Dual	\$ 4,250.00	60.00%	\$ 1,700.00
4		Single	\$ 9,000.00	60.00%	\$ 3,600.00
4	1	Dual	\$ 4,300.00	60.00%	\$ 1,720.00
4	1	Single	\$ 2,490.00	60.00%	\$ 996.00
4	1	Dual	\$ 2,490.00	60.00%	\$ 996.00
6	1	Single	\$ 7,752.00	60.00%	\$ 3,100.80
6	1	Single	\$ 7,752.00	60.00%	\$ 3,100.80
6	1	Dual	\$ 7,752.00	60.00%	\$ 3,100.80
6	1	Dual	\$ 7,752.00	60.00%	\$ 3,100.80
6	1	Single	\$ 14,500.00	60.00%	\$ 5,800.00
1	0	Single	\$ 774.00	60.00%	\$ 309.60
1	0	Single	\$ 774.00	60.00%	\$ 309.60
2	0	Single	\$ 1,308.00	60.00%	\$ 523.20
1	0	Single	\$ 1,008.00	60.00%	\$ 403.20
1	0	Dual	\$ 1,008.00	60.00%	\$ 403.20
3	0	Single	\$ 2,230.00	60.00%	\$ 892.00
3	0	Single	\$ 1,930.00	60.00%	\$ 772.00
3	0	Dual	\$ 2,230.00	60.00%	\$ 892.00
3	0	Dual	\$ 1,930.00	60.00%	\$ 772.00
3		Single/Dual	\$ 3,100.00	60.00%	\$ 1,240.00
4	1	Dual	\$ 3,953.00	60.00%	\$ 1,581.20
4		Single	\$ 3,103.00	60.00%	\$ 1,241.20
4		Dual	\$ 3,103.00	60.00%	\$ 1,241.20
6	1	Dual	\$ 7,310.00	60.00%	\$ 2,924.00
6	1	Single	\$ 7,310.00	60.00%	\$ 2,924.00
6	1	Dual	\$ 7,310.00	60.00%	\$ 2,924.00
1	0	Single	\$ 791.00	60.00%	\$ 316.40
1	0	Dual	\$ 791.00	60.00%	\$ 316.40
2	0	Single	\$ 1,003.00	60.00%	\$ 401.20
2	0	Single	\$ 1,003.00	60.00%	\$ 401.20
2	0	Dual	\$ 1,003.00	60.00%	\$ 401.20
2	0	Dual	\$ 1,003.00	60.00%	\$ 401.20
2	0	Single/Dual	\$ 2,338.00	60.00%	\$ 935.20
3		Single	\$ 2,002.00	60.00%	\$ 800.80
3		Dual	\$ 2,002.00	60.00%	\$ 800.80
3		Single/Dual	\$ 3,100.00	60.00%	\$ 1,240.00
4		Single	\$ 3,094.00	60.00%	\$ 1,237.60
4	1	Dual	\$ 3,094.00	60.00%	\$ 1,237.60
4	1	Dual	\$ 3,094.00	60.00%	\$ 1,237.60
6	1	Single	\$ 7,356.00	60.00%	\$ 2,942.40
6	1	Dual	\$ 7,356.00	60.00%	\$ 2,942.40
1	0	Single	\$ 1,048.53	60.00%	\$ 419.41
1	0	Single	\$ 757.00	60.00%	\$ 302.80
1	0	Dual	\$ 757.00	60.00%	\$ 302.80
1	0	Single	\$ 1,050.00	60.00%	\$ 420.00
1	0	Dual	\$ 925.00	60.00%	\$ 370.00
2	0	Single	\$ 961.00	60.00%	\$ 384.40
2	0	Single	\$ 961.00	60.00%	\$ 384.40

2	0	Dual	\$ 961.00	60.00%	\$ 384.40
2	0	Dual	\$ 961.00	60.00%	\$ 384.40
2	0	Single/Dual	\$ 2,338.00	60.00%	\$ 935.20
3	0	Single	\$ 2,057.00	60.00%	\$ 822.80
3	0	Single	\$ 2,057.00	60.00%	\$ 822.80
3	0	Dual	\$ 2,057.00	60.00%	\$ 822.80
3	0	Dual	\$ 2,057.00	60.00%	\$ 822.80
3	0	Single/Dual	\$ 3,009.00	60.00%	\$ 1,203.60
4	1	Single	\$ 3,086.00	60.00%	\$ 1,234.40
4	1	Single	\$ 3,086.00	60.00%	\$ 1,234.40
4	1	Dual	\$ 3,094.00	60.00%	\$ 1,237.60
4	1	Dual	\$ 3,086.00	60.00%	\$ 1,234.40
6	1	Single	\$ 7,344.00	60.00%	\$ 2,937.60
6	1	Single	\$ 7,344.00	60.00%	\$ 2,937.60
6	1	Dual	\$ 7,344.00	60.00%	\$ 2,937.60
6	1	Dual	\$ 7,344.00	60.00%	\$ 2,937.60
1	0	Single	\$ 925.00	60.00%	\$ 370.00
1	0	Single	\$ 727.00	60.00%	\$ 290.80
1	0	Dual	\$ 925.00	60.00%	\$ 370.00
1	0	Dual	\$ 727.00	60.00%	\$ 290.80
1	0	Single/Dual	\$ 1,615.00	60.00%	\$ 646.00
2	0	Dual	\$ 969.00	60.00%	\$ 387.60
2	0	Single	\$ 969.00	60.00%	\$ 387.60
2	0	Dual	\$ 969.00	60.00%	\$ 387.60
2	0	Single	\$ 1,075.00	60.00%	\$ 430.00
2	0	Single/Dual	\$ 2,338.00	60.00%	\$ 935.20
3		Single	\$ 1,862.00	60.00%	\$ 744.80
3		Dual	\$ 1,862.00	60.00%	\$ 744.80
3	0	Single/Dual	\$ 3,100.00	60.00%	\$ 1,240.00
4	1	Single	\$ 3,300.00	60.00%	\$ 1,320.00
4	1	Single	\$ 3,052.00	60.00%	\$ 1,220.80
4	1	Dual	\$ 3,052.00	60.00%	\$ 1,220.80
6	1	Single	\$ 7,344.00	60.00%	\$ 2,937.60
6	1	Dual	\$ 7,344.00	60.00%	\$ 2,937.60
1	0	Single	\$ 757.00	60.00%	\$ 302.80
1	0	Dual	\$ 757.00	60.00%	\$ 302.80
1	0	Single/Dual	\$ 1,615.00	60.00%	\$ 646.00
2	0	Single	\$ 982.00	60.00%	\$ 392.80
2	0	Dual	\$ 982.00	60.00%	\$ 392.80
2	0	Single/Dual	\$ 2,338.00	60.00%	\$ 935.20
3		Single	\$ 1,892.00	60.00%	\$ 756.80
3		Dual	\$ 1,892.00	60.00%	\$ 756.80
3		Single/Dual	\$ 3,100.00	60.00%	\$ 1,240.00
4		Single	\$ 3,094.00	60.00%	\$ 1,237.60
4		Dual	\$ 3,094.00	60.00%	\$ 1,237.60
1	0	Single	\$ 850.00	60.00%	\$ 340.00
1	0	Dual	\$ 850.00	60.00%	\$ 340.00
1	0	Single/Dual	\$ 1,615.00	60.00%	\$ 646.00
2	0	Single	\$ 1,088.00	60.00%	\$ 435.20
2	0	Dual	\$ 1,088.00	60.00%	\$ 435.20
2	0	Single/Dual	\$ 2,338.00	60.00%	\$ 935.20
3		Single/Dual	\$ 3,300.00	60.00%	\$ 1,320.00
1	0	Single	\$ 748.00	60.00%	\$ 299.20
1	0	Dual	\$ 748.00	60.00%	\$ 299.20
2	0	Single	\$ 978.00	60.00%	\$ 391.20

2	0	Dual	\$ 978.00	60.00%	\$ 391.20
1	0	Single/Dual	\$ 1,615.00	60.00%	\$ 646.00
2	0	Single/Dual	\$ 2,338.00	60.00%	\$ 935.20
3		Single/Dual	\$ 3,245.00	60.00%	\$ 1,298.00
1	0	Single	\$ 748.00	60.00%	\$ 299.20
1	0	Dual	\$ 748.00	60.00%	\$ 299.20
2	0	Single	\$ 978.00	60.00%	\$ 391.20
2	0	Dual	\$ 978.00	60.00%	\$ 391.20
1	0	Single/Dual	\$ 1,615.00	60.00%	\$ 646.00
2	0	Single/Dual	\$ 2,338.00	60.00%	\$ 935.20
3		Single/Dual	\$ 3,620.00	60.00%	\$ 1,448.00
3		Single	\$ 1,997.00	60.00%	\$ 798.80
3		Dual	\$ 1,997.00	60.00%	\$ 798.80
3		Dual	\$ 3,316.00	60.00%	\$ 1,326.40
1	0	Single	\$ 850.00	60.00%	\$ 340.00
1	0	Dual	\$ 850.00	60.00%	\$ 340.00
2	0	Single	\$ 1,182.00	60.00%	\$ 472.80
2	0	Dual	\$ 1,182.00	60.00%	\$ 472.80
1	0	Single/Dual	\$ 1,615.00	60.00%	\$ 646.00
2	0	Single/Dual	\$ 2,338.00	60.00%	\$ 935.20
1	0	Single	\$ 1,335.00	60.00%	\$ 534.00
1	0	Dual	\$ 3,000.00	60.00%	\$ 1,200.00
1	0	Single	\$ 1,606.00	60.00%	\$ 642.40
1	0	Single	\$ 820.00	60.00%	\$ 328.00
1	0	Single	\$ 1,500.00	60.00%	\$ 600.00
1	0	Dual	\$ 2,250.00	60.00%	\$ 900.00
1	0		\$ 3,500.00	60.00%	\$ 1,400.00
2	0	Single	\$ 1,500.00	60.00%	\$ 600.00
2	0	Dual	\$ 3,800.00	60.00%	\$ 1,520.00
2	0	Dual	\$ 1,400.00	60.00%	\$ 560.00
2	0	Dual	\$ 2,900.00	60.00%	\$ 1,160.00
6	1	\$ 42,000.00	60.00%	\$16,800.00	
6	1	\$ 29,500.00	60.00%	\$11,800.00	
8	1	\$ 37,000.00	60.00%	\$14,800.00	
10	1	\$ 44,000.00	60.00%	\$17,600.00	
2	0	\$ 3,100.00	60.00%	\$1,240.00	
1	0	\$ 1,410.01	60.00%	\$564.00	
2	0	\$ 1,974.00	60.00%	\$789.60	
10	1	\$ 24,000.00	60.00%	\$9,600.00	
6	2	\$ 13,000.00	60.00%	\$5,200.00	
8	2	\$ 19,500.00	60.00%	\$7,800.00	
6	1	\$ 18,750.00	60.00%	\$7,500.00	
8	1	\$ 23,500.00	60.00%	\$9,400.00	
10	1	\$ 27,500.00	60.00%	\$11,000.00	
8	1	\$ 21,500.00	60.00%	\$8,600.00	
4	1	\$ 6,400.00	60.00%	\$2,560.00	
6	2	\$ 12,000.00	60.00%	\$4,800.00	
8	2	\$ 16,500.00	60.00%	\$6,600.00	
8	1	\$ 17,000.00	60.00%	\$6,800.00	
8	1	\$ 22,000.00	60.00%	\$8,800.00	
6	2	\$ 13,300.00	60.00%	\$5,320.00	
8	2	\$ 20,000.00	60.00%	\$8,000.00	
10	2	\$ 31,000.00	60.00%	\$12,400.00	
6	1	\$ 19,500.00	60.00%	\$7,800.00	
8	1	\$ 27,000.00	60.00%	\$10,800.00	

6	1	\$ 14,000.00	60.00%	\$5,600.00
6	1	\$ 20,000.00	60.00%	\$8,000.00
10	1	\$ 32,000.00	60.00%	\$12,800.00
8	1	\$ 14,700.00	60.00%	\$5,880.00
8	1	\$ 17,000.00	60.00%	\$6,800.00
10		\$ 23,500.00	60.00%	\$9,400.00
10		\$ 25,000.00	60.00%	\$10,000.00
		\$ 11,200.00	60.00%	\$4,480.00
12	1	\$ 35,000.00	60.00%	\$14,000.00
6	1	\$ 16,500.00	60.00%	\$6,600.00
6	1	\$ 35,000.00	60.00%	\$14,000.00
8	1	\$ 21,000.00	60.00%	\$8,400.00
8	1	\$ 52,000.00	60.00%	\$20,800.00
10	1	\$ 29,000.00	60.00%	\$11,600.00
8	1	\$ 28,000.00	60.00%	\$11,200.00
12	1	\$ 45,000.00	60.00%	\$18,000.00
12	1	\$ 37,000.00	60.00%	\$14,800.00
6	1	\$ 15,000.00	60.00%	\$6,000.00
6	2	\$ 10,500.00	60.00%	\$4,200.00
8	1	\$ 10,250.00	60.00%	\$4,100.00
8	1	\$ 14,000.00	60.00%	\$5,600.00
8	2	\$ 15,500.00	60.00%	\$6,200.00
10	1	\$ 23,000.00	60.00%	\$9,200.00
6	1	\$ 19,000.00	60.00%	\$7,600.00
6	1	\$ 35,000.00	60.00%	\$14,000.00
6	1	\$ 36,000.00	60.00%	\$14,400.00
8	1	\$ 24,000.00	60.00%	\$9,600.00
8	1	\$ 49,000.00	60.00%	\$19,600.00
6	1	\$ 23,000.00	60.00%	\$9,200.00
8	1	\$ 28,000.00	60.00%	\$11,200.00
6	2	\$ 12,500.00	60.00%	\$5,000.00
6	2	\$ 11,750.00	60.00%	\$4,700.00
6	1	\$ 11,750.00	60.00%	\$4,700.00
8	1	\$ 23,000.00	60.00%	\$9,200.00
8	2	\$ 17,000.00	60.00%	\$6,800.00
8	1	\$ 14,395.50	60.00%	\$5,758.20
8	2	\$ 21,000.00	60.00%	\$8,400.00
10	1	\$ 27,600.00	60.00%	\$11,040.00
10	1	\$ 62,000.00	60.00%	\$24,800.00
12	1	\$ 48,000.00	60.00%	\$19,200.00
12	1	\$ 74,000.00	60.00%	\$29,600.00
15	1	\$ 165,000.00	60.00%	\$66,000.00
8	1	\$ 31,000.00	60.00%	\$12,400.00
4	1	\$ 5,600.00	60.00%	\$2,240.00
4	1	\$ 6,300.00	60.00%	\$2,520.00
6	1	\$ 11,000.00	60.00%	\$4,400.00
6	1	\$ 10,500.00	60.00%	\$4,200.00
3	0	\$ 3,500.00	60.00%	\$1,400.00
3	0	\$ 3,717.00	60.00%	\$1,486.80
4	0	\$ 17,000.00	60.00%	\$6,800.00
10	0	\$ 25,500.00	60.00%	\$10,200.00
8	1	\$ 17,000.00	60.00%	\$6,800.00
8	1	\$ 18,000.00	60.00%	\$7,200.00
8	1	\$ 23,000.00	60.00%	\$9,200.00
6	1	\$ 18,000.00	60.00%	\$7,200.00

6	1	\$ 18,000.00	60.00%	\$7,200.00
10	2	\$ 22,500.00	60.00%	\$9,000.00
6	1	\$ 8,700.00	60.00%	\$3,480.00
6	2	\$ 10,500.00	60.00%	\$4,200.00
8	2	\$ 15,200.00	60.00%	\$6,080.00
6	1	\$ 11,250.00	60.00%	\$4,500.00
8	1	\$ 16,500.00	60.00%	\$6,600.00
6	1	\$ 8,084.10	60.00%	\$3,233.64
2	0	\$ 1,625.00	60.00%	\$650.00
2	0	\$ 2,325.00	60.00%	\$930.00
3	0	\$ 2,300.00	60.00%	\$920.00
3	0	\$ 3,200.00	60.00%	\$1,280.00
3	1	\$ 2,200.00	60.00%	\$880.00
4	1	\$ 5,500.00	60.00%	\$2,200.00
4	1	\$ 6,400.00	60.00%	\$2,560.00
4	1	\$ 9,600.00	60.00%	\$3,840.00
6	1	\$ 11,500.00	60.00%	\$4,600.00
6	1	\$ 25,000.00	60.00%	\$10,000.00
4	1	\$ 6,700.00	60.00%	\$2,680.00
3	0	\$ 4,400.00	60.00%	\$1,760.00
8	1	\$ 26,000.00	60.00%	\$10,400.00
8	1	\$ 23,000.00	60.00%	\$9,200.00
8	1	\$ 16,000.00	60.00%	\$6,400.00
6	1	\$ 9,500.00	60.00%	\$3,800.00
6	1	\$ 17,500.00	60.00%	\$7,000.00
6	1	\$ 20,500.00	60.00%	\$8,200.00
6	1	\$ 13,000.00	60.00%	\$5,200.00
6	1	\$ 14,000.00	60.00%	\$5,600.00
6	1	\$ 15,000.00	60.00%	\$6,000.00
6	1	\$ 12,000.00	60.00%	\$4,800.00
6	1	\$ 21,000.00	60.00%	\$8,400.00
4	1	\$ 9,500.00	60.00%	\$3,800.00
4	1	\$ 8,500.00	60.00%	\$3,400.00
4	1	\$ 15,000.00	60.00%	\$6,000.00
4	1	\$ 9,700.00	60.00%	\$3,880.00
4	1	\$ 12,000.00	60.00%	\$4,800.00
4	1	\$ 6,100.00	60.00%	\$2,440.00
4	1	\$ 13,000.00	60.00%	\$5,200.00
4	1	\$ 11,000.00	60.00%	\$4,400.00
3	1	\$ 3,540.00	60.00%	\$1,416.00
4	1	\$ 12,000.00	60.00%	\$4,800.00
4	1	\$ 10,500.00	60.00%	\$4,200.00
4	1	\$ 11,000.00	60.00%	\$4,400.00
4	1	\$ 8,950.00	60.00%	\$3,580.00
10	1	\$ 37,000.00	60.00%	\$14,800.00
10	1	\$ 38,670.00	60.00%	\$15,468.00
4	1	\$ 12,280.52	60.00%	\$4,912.21
4	1	\$ 13,000.00	60.00%	\$5,200.00
8	1	\$ 23,000.00	60.00%	\$9,200.00
6	1	\$ 22,000.00	60.00%	\$8,800.00
6	1	\$ 18,000.00	60.00%	\$7,200.00
6	1	\$ 14,500.00	60.00%	\$5,800.00
6	1	\$ 13,500.00	60.00%	\$5,400.00
8	1	\$ 30,000.00	60.00%	\$12,000.00
8	1	\$ 16,500.00	60.00%	\$6,600.00

3	0	\$ 3,500.00	60.00%	\$1,400.00
2	0	\$ 2,250.00	60.00%	\$900.00
3		\$ 3,422.00	60.00%	\$1,368.80
6		\$ 6,876.00	60.00%	\$2,750.40
6		\$ 7,340.00	60.00%	\$2,936.00
8		\$ 21,067.95	60.00%	\$8,427.18
2	0	\$ 1,500.00	60.00%	\$600.00
2	0	\$ 2,300.00	60.00%	\$920.00
3	0	\$ 2,300.00	60.00%	\$920.00
3	0	\$ 3,100.00	60.00%	\$1,240.00
3		\$ 3,422.00	60.00%	\$1,368.80
4	1	\$ 11,000.00	60.00%	\$4,400.00
4	1	\$ 15,000.00	60.00%	\$6,000.00
4	1	\$ 5,800.00	60.00%	\$2,320.00
6	1	\$ 8,700.00	60.00%	\$3,480.00
6	1	\$ 7,790.00	60.00%	\$3,116.00
2	0	\$ 2,300.00	60.00%	\$920.00
3		\$ 3,422.00	60.00%	\$1,368.80
3		\$ 3,422.00	60.00%	\$1,368.80
3	1	\$ 3,717.00	60.00%	\$1,486.80
3	1	\$ 3,717.00	60.00%	\$1,486.80
3	1	\$ 2,220.00	60.00%	\$888.00
3		\$ 3,764.00	60.00%	\$1,505.60
4	1	\$ 6,100.00	60.00%	\$2,440.00
		\$ 1,250.00	60.00%	\$500.00
		\$ 1,750.00	60.00%	\$700.00
		\$ 580.51	60.00%	\$232.20
		\$ 1,000.00	60.00%	\$400.00
		\$ 580.50	60.00%	\$232.20
		\$ 1,000.00	60.00%	\$400.00
		\$ 445.48	60.00%	\$178.19
		\$ 760.48	60.00%	\$304.19
		\$ 670.53	60.00%	\$268.21
		\$ 850.50	60.00%	\$340.20
		\$ 325.00	60.00%	\$130.00
		\$ 445.48	60.00%	\$178.19
		\$ 220.50	60.00%	\$88.20
		\$ 2,228.59	60.00%	\$891.44
		\$ 5,600.00	60.00%	\$2,240.00
		\$ 5,600.00	60.00%	\$2,240.00
		\$ 791.00	60.00%	\$316.40
		\$ 293.00	60.00%	\$117.20
		\$ 607.53	60.00%	\$243.01
		\$ 879.97	60.00%	\$351.99
		\$ 1,134.00	60.00%	\$453.60
		\$ 1,484.98	60.00%	\$593.99
		\$ 7,800.00	60.00%	\$3,120.00
		\$ 8,500.00	60.00%	\$3,400.00
		\$ 7,900.00	60.00%	\$3,160.00
		\$ 41.00	60.00%	\$16.40
		\$ 42.00	60.00%	\$16.80
		\$ 809.55	60.00%	\$323.82
		\$ 809.55	60.00%	\$323.82
		\$ 62.37	60.00%	\$24.95
		\$ 68.67	60.00%	\$27.47

		\$ 166.67	60.00%	\$66.67
		\$ 166.67	60.00%	\$66.67
		\$ 85.68	60.00%	\$34.27
		\$ 159.04	60.00%	\$63.62
		\$ 92.96	60.00%	\$37.18
		\$ 133.91	60.00%	\$53.56
		\$ 30.00	60.00%	\$12.00
		\$ 37.00	60.00%	\$14.80
		\$ 650.02	60.00%	\$260.01
		\$ 650.02	60.00%	\$260.01
		\$ 39.13	60.00%	\$15.65
		\$ 48.02	60.00%	\$19.21
		\$ 45.22	60.00%	\$18.09
		\$ 142.31	60.00%	\$56.92
		\$ 75.95	60.00%	\$30.38
		\$ 670.53	60.00%	\$268.21
		\$ 133.91	60.00%	\$53.56
		\$ 30.52	60.00%	\$12.21
		\$ 37.00	60.00%	\$14.80
		\$ 809.55	60.00%	\$323.82
		\$ 809.55	60.00%	\$323.82
		\$ 48.02	60.00%	\$19.21
		\$ 70.98	60.00%	\$28.39
		\$ 70.98	60.00%	\$28.39
		\$ 159.04	60.00%	\$63.62
		\$ 25.34	60.00%	\$10.14
		\$ 133.91	60.00%	\$53.56
		\$ 24.00	60.00%	\$9.60
		\$ 28.00	60.00%	\$11.20
		\$ 47.88	60.00%	\$19.15
		\$ 38.78	60.00%	\$15.51
		\$ 35.91	60.00%	\$14.36
		\$ 142.31	60.00%	\$56.92
		\$ 232.89	60.00%	\$93.16
		\$ 106.05	60.00%	\$42.42
		\$ 749.98	60.00%	\$299.99
		\$ 205.03	60.00%	\$82.01
		\$ 117.53	60.00%	\$47.01
		\$ 224.98	60.00%	\$89.99
		\$ 62.02	60.00%	\$24.81
		\$ 2,316.00	60.00%	\$926.40
		\$ 749.98	60.00%	\$299.99
		\$ 650.00	60.00%	\$260.00
		\$ 4,354.00	60.00%	\$1,741.60
		\$ 975.00	60.00%	\$390.00
		\$ 97.00	60.00%	\$38.80
		\$ 171.80	60.00%	\$68.72
		\$ 9.03	60.00%	\$3.61
		\$ 80.20	60.00%	\$32.08
		\$ 171.80	60.00%	\$68.72
		\$ 99.00	60.00%	\$39.60
		\$ 4,364.00	60.00%	\$1,745.60
		\$ 49.42	60.00%	\$19.77
		\$ 266.67	60.00%	\$106.67
		\$ 243.00	60.00%	\$97.20

		\$ 77.00	60.00%	\$30.80
		\$ 425.20	60.00%	\$170.08
		\$ 500.00	60.00%	\$200.00
		\$ 86.00	60.00%	\$34.40
		\$ 862.52	60.00%	\$345.01
		\$ 226.75	60.00%	\$90.70
		\$ 88.62	60.00%	\$35.45
		\$ 85.72	60.00%	\$34.29
anges on antennas) (915612)		\$ 101.22	60.00%	\$40.49
		\$ 93.03	60.00%	\$37.21
		\$ 760.48	60.00%	\$304.19
		\$ 715.47	60.00%	\$286.19
		\$ 1,150.00	60.00%	\$460.00
		\$ 895.51	60.00%	\$358.20
		\$ 895.51	60.00%	\$358.20
		\$ 1,210.02	60.00%	\$484.01
M)		\$ 634.48	60.00%	\$253.79
		\$ 1,030.47	60.00%	\$412.19
		\$ 940.52	60.00%	\$376.21
		\$ 1,030.47	60.00%	\$412.19
		\$ 1,030.47	60.00%	\$412.19
		\$ 940.52	60.00%	\$376.21
		\$ 15,873.65	60.00%	\$6,349.46
		\$ 21,535.85	60.00%	\$8,614.34
		\$ 139.51	60.00%	\$55.80
		\$ 116.90	60.00%	\$46.76
		\$ 209.23	60.00%	\$83.69
		\$ 895.51	60.00%	\$358.20
		\$ 805.49	60.00%	\$322.20
		\$ 494.97	60.00%	\$197.99
		\$ 715.47	60.00%	\$286.19
		\$ 70.00	60.00%	\$28.00
		\$ 210.56	60.00%	\$84.22
		\$ 10.40	60.00%	\$4.16
		\$ 105.00	60.00%	\$42.00
		\$ 81.00	60.00%	\$32.40
		\$ 2,251.45	60.00%	\$900.58
		\$ 141.75	60.00%	\$56.70
		\$ 4,554.00	60.00%	\$1,821.60
		\$ 6,050.00	60.00%	\$2,420.00
		\$ 7,634.00	60.00%	\$3,053.60
		\$ 9,526.00	60.00%	\$3,810.40
		\$ 686.40	60.00%	\$274.56
		\$ 6,468.00	60.00%	\$2,587.20
		\$ 7,920.00	60.00%	\$3,168.00
		\$ 9,455.60	60.00%	\$3,782.24
		\$ 11,290.40	60.00%	\$4,516.16
		\$ 1,219.00	60.00%	\$487.60
		\$ 875.00	60.00%	\$350.00
		\$ 3,650.00	60.00%	\$1,460.00
		\$ 1,400.00	60.00%	\$560.00
		\$ 1,247.00	60.00%	\$498.80
er antenna up to 8ft dia - ADD-		\$ 2,538.88	60.00%	\$1,015.55
		\$ 2,979.90	60.00%	\$1,191.96
		\$ 47.82	60.00%	\$19.13

		~~\$ 243.00~~	60.00%	\$97.20
		~~\$ 139.80~~	60.00%	\$55.92
		~~\$ 134.75~~	60.00%	\$53.90
		~~\$ 1,333.20~~	60.00%	\$533.28
		~~\$ 655.60~~	60.00%	\$262.24
		~~\$ 9.40~~	60.00%	\$3.76
		~~\$ 107.60~~	6.11%	\$101.03
		~~\$ 120.00~~	6.11%	\$112.67

34.00%	~~\$ 18.98~~	Removed 5/15/2023
34.00%	~~\$ 60.06~~	Removed 5/15/2023
34.00%	~~\$ 2,925.15~~	Removed 5/15/2023
34.00%	~~\$ 2,178.00~~	Removed 5/15/2023
68.00%	~~\$ 40.00~~	Removed 5/15/2023
68.00%	~~\$ 561.28~~	Removed 5/15/2023
68.00%	~~\$ 480.00~~	Removed 5/15/2023
68.00%	~~\$ 320.00~~	Removed 5/15/2023
68.00%	~~\$ 32.00~~	Removed 5/15/2023
68.00%	~~\$ 32.00~~	Removed 5/15/2023
68.00%	~~\$ 99.20~~	Removed 5/15/2023
68.00%	~~\$ 108.80~~	Removed 5/15/2023
34.00%	~~\$ 1,650.00~~	Removed 5/15/2023
68.00%	~~\$ 456.00~~	Removed 5/15/2023
68.00%	~~\$ 110.40~~	Removed 5/15/2023
68.00%	~~\$ 1,040.00~~	Removed 5/15/2023
68.00%	~~\$ 1,248.00~~	Removed 5/15/2023
68.00%	~~\$ 620.80~~	Removed 5/15/2023
68.00%	~~\$ 1,264.00~~	Removed 5/15/2023
68.00%	~~\$ 1,784.00~~	Removed 5/15/2023
68.00%	~~\$ 1,976.00~~	Removed 5/15/2023
68.00%	~~\$ 976.00~~	Removed 5/15/2023
68.00%	~~\$ 393.60~~	Removed 5/15/2023
68.00%	~~\$ 224.00~~	Removed 5/15/2023
68.00%	~~\$ 376.00~~	Removed 5/15/2023
68.00%	~~\$ 1,664.00~~	Removed 5/15/2023
68.00%	~~\$ 227.20~~	Removed 5/15/2023
68.00%	~~\$ 432.00~~	Removed 5/15/2023
68.00%	~~\$ 1,484.80~~	Removed 5/15/2023
68.00%	~~\$ 323.20~~	Removed 5/15/2023
68.00%	~~\$ 160.32~~	Removed 5/15/2023
68.00%	~~\$ 160.32~~	Removed 5/15/2023
68.00%	~~\$ 280.00~~	Removed 5/15/2023
68.00%	~~\$ 612.80~~	Removed 5/15/2023
68.00%	~~\$ 664.00~~	Removed 5/15/2023
68.00%	~~\$ 334.40~~	Removed 5/15/2023
68.00%	~~\$ 571.20~~	Removed 5/15/2023
68.00%	~~\$ 840.00~~	Removed 5/15/2023
68.00%	~~\$ 241.60~~	Removed 5/15/2023
68.00%	~~\$ 848.00~~	Removed 5/15/2023
68.00%	~~\$ 1,696.00~~	Removed 5/15/2023
68.00%	~~\$ 480.00~~	Removed 5/15/2023
68.00%	~~\$ 272.00~~	Removed 5/15/2023
68.00%	~~\$ 480.00~~	Removed 5/15/2023
68.00%	~~\$ 272.00~~	Removed 5/15/2023
68.00%	~~\$ 560.00~~	Removed 5/15/2023

68.00%	~~\$ 760.00~~	Removed 5/15/2023
68.00%	~~\$ 504.00~~	Removed 5/15/2023
68.00%	~~\$ 640.00~~	Removed 5/15/2023
68.00%	~~\$ 640.00~~	Removed 5/15/2023
68.00%	~~\$ 16.64~~	Removed 5/15/2023
68.00%	~~\$ 22.72~~	Removed 5/15/2023
68.00%	~~\$ 932.80~~	Removed 5/15/2023
68.00%	~~\$ 446.40~~	Removed 5/15/2023
68.00%	~~\$ 638.40~~	Removed 5/15/2023
68.00%	~~\$ 913.92~~	Removed 5/15/2023
68.00%	~~\$ 338.88~~	Removed 5/15/2023
68.00%	~~\$ 232.00~~	Removed 5/15/2023
68.00%	~~\$ 268.80~~	Removed 5/15/2023
68.00%	~~\$ 329.60~~	Removed 5/15/2023
68.00%	~~\$ 80.00~~	Removed 5/15/2023
68.00%	~~\$ 80.00~~	Removed 5/15/2023
68.00%	~~\$ 105.60~~	Removed 5/15/2023
68.00%	~~\$ 30.40~~	Removed 5/15/2023
34.00%	~~\$ 47.52~~	Removed 5/15/2023
68.00%	~~\$ 87.04~~	Removed 5/15/2023
68.00%	~~\$ 45.10~~	Removed 5/15/2023
68.00%	~~\$ 634.88~~	Removed 5/15/2023
68.00%	~~\$ 634.88~~	Removed 5/15/2023
68.00%	~~\$ 634.88~~	Removed 5/15/2023
68.00%	~~\$ 634.88~~	Removed 5/15/2023
68.00%	~~\$ 242.88~~	Removed 5/15/2023
68.00%	~~\$ 480.00~~	Removed 5/15/2023

		Duplicate 5/15/2023
~~NASPO-ValuePoint Discount %~~	~~NASPO-ValuePoint Unit Price~~	
		Duplicate 5/15/2023
34.00%	~~787.00~~	Duplicate 5/15/2023
34.00%	~~1.20~~	Duplicate 5/15/2023
34.00%	~~1.22~~	Duplicate 5/15/2023
34.00%	~~0.15~~	Duplicate 5/15/2023
34.00%	~~0.05~~	Duplicate 5/15/2023
34.00%	~~0.25~~	Duplicate 5/15/2023
34.00%	~~0.12~~	Duplicate 5/15/2023
34.00%	~~51.50~~	Duplicate 5/15/2023

34.00%	~~\$ 346.50~~	Removed 5/15/2023
34.00%	~~\$ 544.50~~	Removed 5/15/2023
34.00%	~~\$ 726.00~~	Removed 5/15/2023
34.00%	~~\$ 549.05~~	Removed 5/15/2023
34.00%	~~\$ 1,001.93~~	Removed 5/15/2023
~~\$ 857.14~~	65.00%	~~\$ 300.00~~ Removed 5/15/2023

~~\$ 1,428.57~~	65.00%	~~\$ 500.00~~	Removed 5/15/2023
~~\$ 491.43~~	65.00%	~~\$ 172.00~~	Removed 5/15/2023
~~\$ 491.43~~	65.00%	~~\$ 172.00~~	Removed 5/15/2023

2	0	~~\$ 2,750.00~~	60.00%	~~\$1,100.00~~	Removed 5/15/2023
000ft w/g, Max 33,000ft w/g		~~\$ 9,500.00~~	60.00%	~~\$3,800.00~~	Removed 5/15/2023
		~~\$ 22,000.00~~	60.00%	~~\$8,800.00~~	Duplicate 5/15/2023
		~~\$ 16,750.00~~	60.00%	~~\$6,700.00~~	Duplicate 5/15/2023
		~~\$ 240.00~~	60.00%	~~\$96.00~~	Removed 5/16/2023
		~~\$ 160.20~~	60.00%	~~\$64.08~~	Removed 5/16/2023
		~~\$ 230.40~~	60.00%	~~\$92.16~~	Removed 5/16/2023
		~~\$ 14.45~~	60.00%	~~\$5.78~~	Duplicate 5/15/2023
		~~\$ 106.95~~	60.00%	~~\$42.78~~	Removed 5/16/2023
34.00%	~~\$ 165.00~~	Removed 5/15/2023			
34.00%	~~\$ 13,860.00~~	Removed 5/15/2023			
68.00%	~~\$ 40.32~~	Removed 5/15/2023			
68.00%	~~\$ 74.24~~	Removed 5/15/2023			
68.00%	~~\$ 88.00~~	Removed 5/15/2023			
34.00%	~~\$ 231.00~~	Removed 5/15/2023			
34.00%	~~\$ 181.50~~	Removed 5/15/2023			
68.00%	~~\$ 393.28~~	Removed 5/15/2023			
68.00%	~~\$ 128.00~~	Removed 5/15/2023			
68.00%	~~\$ 400.00~~	Removed 5/15/2023			
68.00%	~~\$ 112.00~~	Removed 5/15/2023			
68.00%	~~\$ 1,880.00~~	Removed 5/15/2023			
68.00%	~~\$ 1,520.00~~	Removed 5/15/2023			
68.00%	~~\$ 2,624.00~~	Removed 5/15/2023			
68.00%	~~\$ 2,808.00~~	Removed 5/15/2023			
68.00%	~~\$ 292.80~~	Removed 5/15/2023			
68.00%	~~\$ 196.80~~	Removed 5/15/2023			

68.00%	~~\$ 448.00~~	Removed 5/15/2023			
68.00%	~~\$ 352.00~~	Removed 5/15/2023			
68.00%	~~\$ 352.00~~	Removed 5/15/2023			
68.00%	~~\$ 528.00~~	Removed 5/15/2023			
68.00%	~~\$ 584.00~~	Removed 5/15/2023			
68.00%	~~\$ 584.00~~	Removed 5/15/2023			
68.00%	~~\$ 304.00~~	Removed 5/15/2023			
68.00%	~~\$ 352.00~~	Removed 5/15/2023			
68.00%	~~\$ 1,232.00~~	Removed 5/15/2023			
68.00%	~~\$ 1,232.00~~	Removed 5/15/2023			
68.00%	~~\$ 512.00~~	Removed 5/15/2023			
68.00%	~~\$ 592.00~~	Removed 5/15/2023			
68.00%	~~\$ 592.00~~	Removed 5/15/2023			
68.00%	~~\$ 592.00~~	Removed 5/15/2023			
68.00%	~~\$ 592.00~~	Removed 5/15/2023			
68.00%	~~\$ 928.00~~	Removed 5/15/2023			
68.00%	~~\$ 864.00~~	Removed 5/15/2023			
68.00%	~~\$ 398.40~~	Removed 5/15/2023			
68.00%	~~\$ 1,168.00~~	Removed 5/15/2023			
68.00%	~~\$ 1,168.00~~	Removed 5/15/2023			
68.00%	~~\$ 520.00~~	Removed 5/15/2023			
68.00%	~~\$ 576.00~~	Removed 5/15/2023			
68.00%	\$ 576.00	Removed 5/15/2023			
68.00%	~~\$ 352.00~~	Removed 5/15/2023			
68.00%	~~\$ 759.04~~	Removed 5/15/2023			
68.00%	~~\$ 758.08~~	Removed 5/15/2023			
68.00%	~~\$ 986.88~~	Removed 5/15/2023			
68.00%	~~\$ 999.68~~	Removed 5/15/2023			
68.00%	~~\$ 759.04~~	Removed 5/15/2023			
68.00%	~~\$ 758.08~~	Removed 5/15/2023			
68.00%	~~\$ 654.40~~	Removed 5/15/2023			
68.00%	~~\$ 31.68~~	Removed 5/15/2023			
68.00%	~~\$ 812.80~~	Removed 5/15/2023			
68.00%	~~\$ 722.24~~	Removed 5/15/2023			
68.00%	~~\$ 1,560.00~~	Removed 5/15/2023			
68.00%	~~\$ 1,831.36~~	Removed 5/15/2023			
68.00%	~~\$ 1,504.00~~	Removed 5/15/2023			
68.00%	~~\$ 912.00~~	Removed 5/15/2023			
68.00%	~~\$ 904.00~~	Removed 5/15/2023			
68.00%	~~\$ 752.00~~	Removed 5/15/2023			
68.00%	~~\$ 744.00~~	Removed 5/15/2023			
68.00%	~~\$ 880.00~~	Removed 5/15/2023			
68.00%	~~\$ 896.00~~	Removed 5/15/2023			
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34.00%	~~\$ 47.52~~	Removed 5/15/2023			
4	0	~~\$ 6,573.00~~	60.00%	~~\$2,629.20~~	Removed 5/15/2023
		~~\$ 9,375.00~~	60.00%	~~\$3,750.00~~	Removed 5/15/2023

		~~\$ 14.65~~	60.00%	~~\$5.86~~	Removed 5/15/2023
		~~\$ 74.18~~	60.00%	~~\$29.67~~	Removed 5/15/2023
		~~\$ 518.36~~	60.00%	~~\$207.34~~	Removed 5/15/2023
		~~\$ 894.40~~	60.00%	~~\$357.76~~	Removed 5/15/2023
		~~\$ 66.23~~	60.00%	~~\$26.49~~	Removed 5/15/2023
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CODE / PN	PRODUCT / DESCRIPTION
3HE00014AA	7x50 ESS-6v/12 SR-12 Fan Filter
3HE00027CA	1-port 1000BASE-SX Small Form-Factor Pluggable (SFP) Optics Module, Multimode Fiber (MMF), 550 meters, 850 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant, Extended Temperature -40/85C
3HE00028CA	1-port 1000BASE-LX Small Form-Factor Pluggable (SFP) Optics Module, Single Mode Fiber (SMF), 10 km, 1310 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant, Extended Temperature -40/85C
3HE00029CA	1-port 1000BASE-ZX Small Form-Factor Pluggable (SFP) Optics Module, Single Mode Fiber (SMF), 70km, 1550 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant, Extended Temperature -40/85C
3HE00034CA	1-port OC-3/STM-1 SONET/SDH Optics Module, Multimode Fiber (MMF), 2km, 1310 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant, Extended Temperature -40/85C
3HE00035CA	1-port OC-3/STM-1 SONET/SDH Optics Module, IR-1 / I-1, Single Mode Fiber (SMF), 15-21km, 1310 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant, Extended Temperature -40/85C
3HE00036CA	1-port OC-3/STM-1 SONET/SDH Optics Module, LR-1 / L-1.1, Single Mode Fiber (SMF), 40-50km, 1310 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant, Extended Temperature -40/85C
3HE00062CB	1-port 10/100/1000BASE-TX Small Form-Factor Pluggable (SFP) Copper Module, Cat5, RJ45 Connector, RoHS 6/6 compliant, Extended Temperature -40/85C
3HE00062CB	1-port 10/100/1000BASE-TX Small Form-Factor Pluggable (SFP) Copper Module, Cat5, RJ45 Connector, RoHS 6/6 compliant, Extended Temperature -40/85C
3HE00190AA	7x50 SR-7/ESS-7 Fan Filter
3HE00192AA	7750 SR-12 slot Cable Management Accessory.
3HE00271AA	AC Power Cable NEMA 5-15P to IEC 60320 C13 10A/110V 1.8 meter- United States / Canada / South America
3HE00271AB	AC Power Cable NEMA 6-15P to IEC 60320 C13 10A/220V, 1.8 meter - United States / Canada / South America
3HE00271AC	AC Power Cable CEE 7/7 to IEC 60320 C13 10A/220V 2.8 meter - Continental Europe
3HE00271AD	AC Power Cable BS 1363 to IEC 60320 C13 10A/220V, 2.8 meter- United Kingdom / Hong Kong /Singapore
3HE00271AE	AC Power Cable Blunt cut to IEC 60320 C13, 2.4 meter, 10A/220V,USA / Canada / South America
3HE00271AF	AC Power Cable NEMA 5-15P to IEC 60320 C19 15A/110V 2.8 meter - United States / Canada / South America
3HE00271AG	AC Power Cord NEMA 5-15P to IEC 60320 C13 13A/110V 2.5 meter- United States / Canada / South America
3HE00271AH	AC Power Cable blunt cut with IEC 60320 locking C19 20A/250V, 4.5 meter - USA
3HE00271AJ	AC Power Cable blunt cut with IEC 60320 locking C19 16A/250V, 4.5 meter - Europe

3HE00271BA	AC Power Cable NEMA 5-15P to IEC 60320 C15 15A/110V 1.8 meter- United States / Canada / South America
3HE00271BB	AC Power Cable NEMA 6-15P to IEC 60320 C15 15A/220V, 1.8 meter - United States / Canada / South America
3HE00271BC	AC Power Cable CEE 7/7 to IEC 60320 C15 10A/220V 2.8 meter - Continental Europe
3HE00271BD	AC Power Cable BS 1363 to IEC 60320 C15 10A/220V, 2.8 meter- United Kingdom / Hong Kong /Singapore
3HE00271BE	AC Power Cable Blunt cut to IEC 60320 C15, 2.4 meter, 10A/220V International
3HE00514AA	AC Power Cable IEC 320 C-14 to Blunt cut 15A/220V.
3HE00867CA	1-port 1000BASE-EX Small Form-Factor Pluggable (SFP) Optics Module, Single Mode Fiber (SMF), 40km, 1310nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant, Extended Temperature -40/85C
3HE00868CA	1-port 1000BASE-BX10-U (Up-Stream) Bi-Directional (BiDi) Small Form-Factor Pluggable (SFP) Optics Module, Single Mode Fiber (SMF), 10km, TX:1310 nm, RX: 1490 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant, Extended Temperature -40/85C
3HE00868CB	1-port 1000BASE-BX10-D (Down-Stream) Bi-Directional (BiDi) Small Form-Factor Pluggable (SFP) Optics Module, Single Mode Fiber (SMF), 10km, TX: 1490 nm, RX: 1310 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 Compliant, Extended Temperature -40/85C
3HE01049AA	Cable 7x50 CONSOLE CABLE, NULL MODEM, 6', CROSSOVER PIN-OUT, DB9F-DB9F
3HE01051AA	7750 SR MDA slot blank cover
3HE01389CA	1-port 1000BASE-EZX Small Form-Factor Pluggable (SFP) Optics Module, Single Mode Fiber (SMF), 120km, 1550nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant, Extended Temperature -40/85C
3HE01672AA	7750 SR-7 19-inch Rack Mount Brackets, 1 pair - spare
3HE01673AA	7750 SR-12 19-inch Rack Mount Brackets , 1 pair - spare
3HE01807AC	Contracted Annual Software Subscription Plan (SSP) for 7x50, 7710 and 7210. Entitles customer to unlimited nodal OS software upgrade licenses for one year. Annual contracts must be purchased against the total installed base for a given customer network or channel, for a particular product family (i.e. all 7450 ESS1 elements). Contact local B&P team or IPD BD for more information. Customer must complete Export Control Doc. prior to release of any S/W. Part number for use on all orders outside of NAR.
3HE01881AA	7750 SR-7, 7450 ESS-6/7 Ground and Power Lug Kit for Qty=5 shelves, spare, includes: (5) #6 AWG Ground Lugs (10) Ground Screws (20) #6 AWG DC Power Lugs
3HE01881CA	7750 SR-7, 7450 ESS-7 Ground and Power Lug Kit for Qty=5 shelves, spare, includes: (5) #2 AWG Ground Lugs (10) Ground Screws (20) #2 AWG DC Power Lugs
3HE01882BA	7750 SR-12/7450 ESS-12 Ground and Power Lug Kit for PEM-3 Qty=5 shelves, spare, includes: (40) #4 Lugs for Power (40) #2 Lugs for Power (10) #2 Lugs for Ground

3HE02772AA	The Auxiliary Alarm Card provides additional alarm support for high density digital inputs and outputs, as well as 2 analog inputs. Access to all the signal pins is via the AMP 68 pin connector. The 16 AWG open-ended cables of 15 and 30 meters length (3HE03398AB/3HE03399AB), as well as the SCSI to AMP 64 pin cable (3HE02783AA), can be used in conjunction with this card. This card is supported in both -48 VDC and +24 VDC systems.
3HE02772BA	Conformal Coated Variant of Auxiliary Alarm. The Card provides additional alarm support for high density digital inputs and outputs, as well as 2 analog inputs. Access to all the signal pins is via the AMP 68 pin connector. The 16 AWG open-ended cables of 15 and 30 meters length (3HE03398AB/3HE03399AB), as well as the SCSI to AMP 64 pin cable (3HE02783AA), can be used in conjunction with this card. This card is supported in both -48 VDC and +24 VDC systems.
3HE02774AB	SAR Control and Switch Module Version 2. One (1) required per SAR-8 shelf or up to two (2) per SAR-8 Shelf for CPU and fabric redundancy. -48/+24VDC
3HE02774CB	Conformal Coated Variant of SAR Control and Switch Module Version 2. One (1) required per SAR-8 shelf or up to two (2) per SAR-8 Shelf for CPU and fabric redundancy. -48/+24VDC
3HE02780AA	Terminates 6 analog FXS subscriber interfaces from local telephone set. RJ45 connector access (2 ports/connector). On-premise applications only. -48/+24VDC
3HE02780BA	Conformal Coated FXS line card.Terminates 6 analog FXS subscriber interfaces from local telephone set. RJ45 connector access (2 ports/connector). On-premise applications only. -48/+24VDC
3HE02781AA	32-port Channelized/Unchannelized T1/E1 Any Service Any Port (ASAP) Card, supports channelization down to DS0 and ATM/PPP/TDM encapsulations. Each port can be independently configured for the different services and can be used for access or network ports.This card is supported in both -48 VDC and +24 VDC systems.
3HE02782AA	Packet Microwave Card has two 10/100/1000 RJ45 ports and six GigE SFP ports. The two RJ45 ports and the first two SFP ports can be connected to MPR-e radio with microwave awareness capabilities. Each port can be used for access or network ports. SFPs sold separately. This card is supported in both -48 VDC and +24 VDC systems.
3HE02782BA	Conformal Coated Variant of Packet Microwave Card has two 10/100/1000 RJ45 ports and six GigE SFP ports. The two RJ45 ports and the first two SFP ports can be connected to MPR-e radio with microwave awareness capabilities. Each port can be used for access or network ports. SFPs sold separately. This card is supported in both -48 VDC and +24 VDC systems.
3HE02783AA	Provides access to all the inputs and outputs for the Aux Alarm card. AMP 68 pin (SCSI-2) connector attaches to the module and AMP 64 pin connector can be directly attached to other telecom equipment or breakout unit. 3 meters in length.
3HE02784NA	SAR Release 20.x OS License. One (1) OS Upgrade is required for each SAR-8, SAR-M, SAR-A, SAR-W, SAR-Wx, SAR-H, SAR-Hc, SAR-X, SAR-Ax in the network. See the optional RTUs available for additional advanced features. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/ .

3HE02784RA	SAR Release 22.x OS License. One (1) OS Upgrade is required for each SAR-8, SAR-M, SAR-A, SAR-Wx, SAR-H, SAR-Hc, SAR-X, SAR-Ax in the network. See the optional RTUs available for additional advanced features. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/ .
3HE02784TA	SAR Release 23.x OS License for the basic suite of functionality. One (1) OS License is required for each SAR-8, SAR-M, SAR-A, SAR-Wx, SAR-H, SAR-Hc, SAR-X, SAR-Ax in the network. See the optional RTUs available for additional advanced features. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/ .
3HE02785NA	SAR Release 20.x OS Upgrade for the basic suite of functionality. One (1) OS Upgrade is required for each SAR-8, SAR-M, SAR-A, SAR-W, SAR-Wx, SAR-H, SAR-Hc, SAR-X, SAR-Ax in the network. See the optional RTUs available for additional advanced features. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/ .
3HE02785RA	SAR Release 22.x OS Upgrade for the basic suite of functionality. One (1) OS Upgrade is required for each SAR-8, SAR-M, SAR-A, SAR-Wx, SAR-H, SAR-Hc, SAR-X, SAR-Ax in the network. See the optional RTUs available for additional advanced features. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/ .
3HE02785TA	SAR Release 23.x OS Upgrade for the basic suite of functionality. One (1) OS Upgrade is required for each SAR-8, SAR-M, SAR-A, SAR-Wx, SAR-H, SAR-Hc, SAR-X, SAR-Ax in the network. See the optional RTUs available for additional advanced features. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/ .
3HE02786BA	Valere AC Split Power Shelf, one (1) required for AC operation of Nokia SR-7, ESS-7/6/6v chassis. Shelf is electrically split with two (2) power outputs for 1+1 redundancy. Accepts of up to four (4) SR/ESS 2500W AC Power Supplies and/or SR/ESS AC Split Power Shelf Blanks (all sold separately). Includes four (4) power lugs for the supply cables from the Power Shelf. SR-7, ESS-7/6/6v Status Cable recommended (sold separately).
3HE02787AA	Valere 2500 Watt AC Power Supply for the Valere AC Split Power Shelf. For 1 + 1 redundancy for the SR-12/ESS-12, four (4) supplies required. For 1+ 1 Redundancy on the ESS-6: two (2) supplies required and two SR/ESS AC Split Power Shelf Blanks (recommended) (sold separately). One (1) SR/ESS 2500W AC Power Supply Cord required for each Power Supply (sold separately).
3HE02944AA	SR/ESS AC Split Power Shelf Slot Blanks, one (1) blank recommended for each unoccupied power supply position in the SR/ESS AC Split Power Shelf
3HE02946AA	AC Power Cable IEC 60320-C19 to Blunt cut 2.4 meter 220V for SR/ESS 2500 Watt AC Power Supply for the SR/ESS AC Split Power Shelf, Blunt Cut - United States / Canada / South America, one (1) cord required per 2500 AC Power Supply, appropriate wall end connector needs to be installed

3HE02947AA	Cable SR/ESS AC Split Power Shelf SR-12/ESS-12 Status Cable, one (1) cable recommended to connect the SR-12/ESS-12 chassis to the SR/ESS AC Split Power Shelf
3HE03054AA	Replacement blanking plates for the SAR-8 slots and the smaller SAR-18 adapter card slots. To be installed in empty slots for air flow and EMI. Package of 6.
3HE03065BA	Valere External AC Rectifier Bundle, includes: (1) 3HE02786BA Redundant AC power for SR-7, ESS-7 with AC split shelf, (4) 3HE02787AA AC power supplies, (1) 3HE04519AA status cable, (4) 3HE02946AA DC lugs and blunt-cut AC International power cords, <u>User must supply DC power cables, chassis lugs and AC wall connectors.</u>
3HE03126AA	6 port E&M analog voice interface card configurable for 2 or 4 wire operation. Supports Type I, II and V signaling and A-law and μ -Law encoding. 600ohm interface with programmable TLP ranges. -48VDC
3HE03126BA	Conformal Coated Variant of 6 port E&M analog voice interface card configurable for 2 or 4 wire operation. Supports Type I, II and V signaling and A-law and μ -Law encoding. 600ohm interface with programmable TLP ranges. -48VDC
3HE03391AC	12 port Serial Data Interface - Version 3 (SDlv3) card. Supports RS232, RS530, X.21 and V.35 protocols. This card provides a SCSI-68 connector per 2 ports. Supports DTE/DCE port configs utilizing generic cables 3HE12409AA/3HE12410AA applicable to all available port distribution panels (3HE12442AA, 3HE12443AA, 3HE12444AA, 3HE12445AA).
3HE03391BC	Conformal Coated Variant of 12 port Serial Data Interface - Version 3 (SDlv3) card. Supports RS232, RS530, X.21 and V.35 protocols. This card provides a SCSI-68 connector per 2 ports. Supports DTE/DCE port configs utilizing generic cables 3HE12409AA/3HE12410AA applicable to all available port distribution panels (3HE12442AA, 3HE12443AA, 3HE12444AA, 3HE12445AA).
3HE03394AA	Breakout panel with 32 T1/E1 100/120-ohm RJ45 ports for up to two 16 port T1/E1 ASAP cards or one 32 port T1/E1 ASAP card.
3HE03395AA	Breakout panel with 32 E1 75-ohm BNC ports for up to two 16 port T1/E1 ASAP cards or one 32 port T1/E1 ASAP card.
3HE03397AA	This cable connects a 16 T1/E1 ASAP connector to a breakout panel. SCSI connector at both ends. 1 meter in length.
3HE03397BB	This cable connects a 16 port T1/E1 ASAP connector to a breakout panel. SCSI connector at both ends in cross-over configuration. 1.6 meter in length.
3HE03398AB	Provides access 16 ports of a T1/E1 ASAP card; the 32 port T1/E1 ASAP card requires 2 cables. AMP 68 pin connector attaches to the module and the open end (26 AWG) can be directly attached to other telecom equipment or a punch-down/terminal block. 15 meters in length.
3HE03399AB	Provides access to 16 ports of a T1/E1 ASAP card; the 32 port T1/E1 ASAP card requires 2 cables. AMP 68 pin connector attaches to the module and the open end (26 AWG) can be directly attached to other telecom equipment or a punch-down/terminal block. 30 meters in length.
3HE03401AA	Mini coax Y-cable to connect a single synchronization reference to the input ports of the two 7705 CSMs.

3HE03661AA	7750 SR-7 DC 100 AMP PEM-3 for Slot 2. 7750 SR-7 DC 100 AMP PEM-3 provides 1+1 redundant DC power. Note: Requires the 3HE04498AA - 7750 SR-7 DC 100Amp Power Filter to be installed in the front of the SR-7
3HE03662AA	7750 SR-7 DC 100 AMP PEM-3 for Slot 1. 7750 SR-7 DC 100 AMP PEM-3 provides 1+1 redundant DC power. Note: Requires the 3HE04498AA - 7750 SR-7 DC 100Amp Power Filter to be installed in the front of the SR-7
3HE03663AA	7750 SR, 12-slot Shelf 175 AMP DC Power Entry Module-3 for the 7750 SR-12 DC Shelf.
3HE03664AA	7450 ESS-7 DC 100 AMP PEM-3 for Slot 2. 7450 ESS-7 DC 100 AMP PEM-3 provides 1+1 redundant DC power. Note: Requires the 3HE04500AA - 7450 ESS-7 DC 100Amp Power Filter to be installed in the front of the 7450 ESS-7.
3HE03665AA	7450 ESS-7 DC 100 AMP PEM-3 for Slot 1. 7450 ESS-7 DC 100 AMP PEM-3 provides 1+1 redundant DC power. Note: Requires the 3HE04500AA - 7450 ESS-7 DC 100Amp Power Filter to be installed in the front of the 7450 ESS-7.
3HE03666AA	7450 ESS-12, 12-slot Shelf 175 AMP DC Power Entry Module-3 for the 7450 ESS-12 DC Shelf.
3HE04147AA	ACC - 7750 SR Impedance Panel Qty 1
3HE04148AA	ACC - 7750 SR Impedance Panel Qty 5
3HE04172AA	Valere AC Un-Split power shelf for the Nokia ESS/SR-12; The Valere AC un-split power shelf accepts up to four (4) ESS/SR 2500 Watt AC Power supplies. (Requires 2 Valere AC un-split power shelves for AC redundancy for the Nokia ESS/SR-12 with PEM-3) Includes: One (1) 3HE04172AA - ESS/SR-12 Valere AC un-Split Power Shelf (includes four (4) power lugs) <u>Power Cables, Status Cable and Power Supplies are sold separately</u>
3HE04173AA	Valere AC Un-Split Power Shelf for the ESS/SR-12 Status Cable, two (2) cable recommended to connect the ESS/SR-12 chassis to the SR/ESS AC Un-Split Power Shelf.

3HE04174AA	Valere AC Power Bundle for the ESS/SR-12 for 175 Amp PEM-3 The AC power shelf converts AC power from an external AC power source into DC power that is suitable for the ESS/SR-12 Chassis. On systems using the PEM-3, a 1:1 power shelf to PEM-3 ratio exists with a maximum of two shelves and two PEM-3s per chassis; Bundle includes the following; (2) 3HE04172AA - ESS/SR-12 Valere AC Un-Split Shelves (8) 3HE02787AA - ESS/SR Valere 2.5KW Power Supplies (2) 3HE04173AA - ESS/SR-12 AC Rectifier Status Cable (8) 3HE02946AA - ESS/SR 2500W Valere International Power Cords Blunt Cut
3HE04324AA	1-port 1000BASE-BX-U Bi-Directional (BiDi) Small Form-Factor Pluggable (SFP) Optics Module, TX: 1310 nm, RX: 1490nm, 40km, LC Connector, -40/85C
3HE04324AB	1-port 1000BASE-BX-D Bi-Directional (BiDi) Small Form-Factor Pluggable (SFP) Optics Module, TX: 1490nm, RX: 1310nm, 40km, LC Connector, -40/85C
3HE04414AB	PS - 7210 SAS M/Mxp/T AC PS (NON-ETR) 200W
3HE04415AB	PS - 7210 SAS M/Mxp/T DC -48V PS (NON-ETR) 200W
3HE04416AA	FAN - 7210 SAS M/Mxp/T Fan Tray (ETR & Non ETR) (Spare)
3HE04498AA	7750 SR-7 100 AMP Power Filter is required for the 7750 SR-7 100Amp PEM-3 for Slot 1 and Slot 2 (installs in the front of the 7750 SR-7 Chassis)
3HE04500AA	7450 ESS-7 100 AMP Power Filter is required for the 7450 ESS-7 100Amp PEM-3 for Slot 1 and Slot 2 (installs in the front of the 7450 ESS-7 Chassis)
3HE04509AD	Connects Serial Data Interface card to external equipment. Mini-SCSI connector attaches to the SDI card and the open end can be directly attached to other telecom equipment. Supports 6 data ports. 10 meters in length. Each Serial Data Interface Card can support two cable assemblies. Uses 30 AWG wire and may not be compatible with some connector panels.
3HE04517AA	Bundle for the 7450 ESS-7 Slot Chassis for Slot 1 PEM-3's, bundle includes the following; 7450 ESS-7 DC PEM-3 Slot 1 and 100 AMP DC Filter Bundle: Includes: (1) 3HE03665AA - 7450 ESS-7 100 AMP DC Power Entry Module-3 Slot 1 with (1) 3HE04500AA PWR FLT - 7450 ESS-7 100 AMP PWR FILTER Note: The 3HE04500AA - PWR FLT - 7450 ESS-7 100 AMP PWR FILTER (installed in the front of the chassis) is required for the 3HE03665AA - PEM - 7450 ESS-7 100A DC PEM-3 SLOT 1
3HE04518AA	Bundle for the 7450 ESS-7 Slot Chassis for Slot 2 PEM-3's: 7450 ESS-7 DC PEM-3 Slot 2 and 100 AMP DC Filter Bundle: Includes: (1) 3HE03664AA - 7450 ESS-7 100 AMP DC Power Entry Module-3 Slot 2 with (1) 3HE04500AA PWR FLT - 7450 ESS-7 100 AMP PWR FILTER Note: The 3HE04500AA - PWR FLT - 7450 ESS-7 100 AMP PWR FILTER (installed in the front of the chassis) is required for the 3HE03664AA - PEM - 7450 ESS-7 100A DC PEM-3 SLOT 2
3HE04519AA	Valere AC Power Shelf Status Cable, cable recommended to connect the ESS/SR-7 chassis to the AC Split Power Shelf (split or unsplit).

3HE04521AA	Bundle for the 7750 SR-7 Slot Chassis for Slot 1 PEM-3's; 7750 SR-7 DC 100 AMP PEM-3 for Slot 1 and 100 AMP DC Filter Bundle, includes: (1) 3HE03662AA - 7750 SR-7 100A DC PEM-3 SLOT 1 with (1) 3HE04498AA PWR FLT - 7750 SR-7 100 AMP PWR FILTER Note: The 3HE04498AA - PWR FLT - 7750 SR-7 100 AMP PWR FILTER (installed in the front of the chassis) is required for the 3HE03662AA -7750 SR-7 100A DC PEM-3 SLOT 1.
3HE04522AA	Bundle for the 7750 SR-7 Slot Chassis for Slot 2 PEM-3's; 7750 SR-7 DC 100 AMP PEM-3 for Slot 1 and 100 AMP DC Filter Bundle, includes: (1) 3HE03661AA - 7750 SR-7 100A DC PEM-3 SLOT 2 with (1) 3HE04498AA PWR FLT - 7750 SR-7 100 AMP PWR FILTER Note: The 3HE04498AA - PWR FLT - 7750 SR-7 100 AMP PWR FILTER (installed in the front of the chassis) is required for the 3HE03661AA -7750 SR-7 100A DC PEM-3 SLOT 2.
3HE04606AA	ACC - 7750 SR-12 SLOT PEM-3 Upgrade Kit, includes: Lugs, Installations guide and Agency overlay
3HE04607AA	ACC - 7750 SR-7 SLOT PEM-3 Upgrade Kit, includes: Lugs, Installations guide and Agency overlay
3HE04823AA	1-port 10GBASE-LR Small Form-Factor Pluggable+ (SFP+) Optics Module, Single Mode Fiber (SMF), 10km, 1310 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant
3HE04824AA	1-port 10GBASE-SR Small Form-Factor Pluggable+ (SFP+) Optics Module, 850 nm, 26 to 300 meters, LC Connector, RoHS 6/6 compliant
3HE04923AA	SROS L2-aware NAT license. This is a per system license.
3HE04925AA	SROS license to enable LNS capability. Per system license.
3HE04927AA	SROS Residential Aggregate Control license - per 10 Gbps. Must use with equivalent capacity ID RTU. Aggregate means for traffic without per-subscriber context. Not used for VPN services. Per system and per active ISA license, or per network license.
3HE04930AA	SROS Residential Aggregate Control license - per 1Gb/s. Aggregate means for traffic without per-subscriber context. Not used for VPN services. Per system and per active ISA license, or per network license.
3HE04939CA	1-port 1000BASE CWDM Small Form-Factor Pluggable (SFP) Optics Module, Single Mode Fiber (SMF), 40km, 1471 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant.
3HE04939CB	1-port 1000BASE CWDM Small Form-Factor Pluggable (SFP) Optics Module, Single Mode Fiber (SMF), 40km, 1491 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant.
3HE04939CC	1-port 1000BASE CWDM Small Form-Factor Pluggable (SFP) Optics Module, Single Mode Fiber (SMF), 40km, 1511 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant.
3HE04939CD	1-port 1000BASE CWDM Small Form-Factor Pluggable (SFP) Optics Module, Single Mode Fiber (SMF), 40km, 1531 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant.
3HE04939CE	1-port 1000BASE CWDM Small Form-Factor Pluggable (SFP) OpticsModule, Single Mode Fiber (SMF), 40km, 1551 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant.

3HE04939CF	1-port 1000BASE CWDM Small Form-Factor Pluggable (SFP) Optics Module, Single Mode Fiber (SMF), 40km, 1571 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant.
3HE04939CG	1-port 1000BASE CWDM Small Form-Factor Pluggable (SFP) Optics Module, Single Mode Fiber (SMF), 40km, 1591 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant.
3HE04939CH	1-port 1000BASE CWDM Small Form-Factor Pluggable (SFP) Optics Module, Single Mode Fiber (SMF), 40km, 1611 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant.
3HE04962AB	4-port T3/E3 Card V2. Support includes clear channel ATM/PPP for DS3 and PPP for E3. Also, there's TDM CES support for DS3/E3 clear as well as DS1/DS0 channels. Each port can be independently configured for the different services and access/network facing. -48VDC
3HE04991AA	SAR-18 shelf that accepts up to 2 SAR-18 Control Switch Modules (CSMs) and up to 16 interface cards. Up to 12 SAR 8-type interface cards can be used. Other 4 slots are high speed interface cards specific to the SAR-18. Blanking plates included. -48VDC only.
3HE04992AA	SAR-18 Control and Switch Module. Up to two per SAR-18 Shelf for CPU and fabric redundancy.
3HE04993AA	SAR-18 Fan Module with a set of 8 fans
3HE04994AA	SAR-18 Alarm Module with Alarm LEDs and I/O, as well as two BITS timing input/output ports.
3HE04995AA	SAR-18 Replaceable Air Filters, 4 pack
3HE05036AA	1-port 10GBASE-ER Small Form-Factor Pluggable+ (SFP+) Optics Module, Single Mode Fiber (SMF), 40km, 1550 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant
3HE05037AA	1-port 10GBASE-BX10-U (Up-Stream) Bi-Directional (BiDi) Small Form-Factor Pluggable (SFP+) Optics Module, Single Mode Fiber (SMF), 10km, TX:1330 nm, RX: 1270 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant, Temperature 0/70C
3HE05037AB	1-port 10GBASE-BX10-D (Down-Stream) Bi-Directional (BiDi) Small Form-Factor Pluggable (SFP+) Optics Module, Single Mode Fiber (SMF), 10km, TX: 1270 nm, RX: 1330 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 Compliant, Temperature 0/70C
3HE05037BA	1-port 10GBASE-BX10-U (Up-Stream) Bi-Directional (BiDi) Small Form-Factor Pluggable (SFP+) Optics Module, Single Mode Fiber (SMF), 10km, TX: 1270 nm, RX: 1330 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 Compliant, Temperature 0/70C
3HE05037BB	1-port 10GBASE-BX10-D (Down-Stream) Bi-Directional (BiDi) Small Form-Factor Pluggable (SFP+) Optics Module, Single Mode Fiber (SMF), 10km, TX:1330 nm, RX: 1270 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant, Temperature 0/70C
3HE05106AA	FAN - 7750 SR-12 Reduced Depth - Enhanced Fan Tray
3HE05143AA	SROS initial 1Gb/s ID and control RTU license. Not needed if purchasing the 10G RTUs. Per system and active ISA license.
3HE05144AA	SROS identification only license - per 1Gb/s increment. Not needed for first Gb/s. Per system and per active ISA license, or per network license.
3HE05145AA	SROS identification only license - up to 10Gb/s. Per system and per active ISA license, or per network license.
3HE05146AA	SROS Residential per-subscriber or VPN per-site control license - per additional 1Gb/s increment. Not needed for first Gb/s. Per system and per active ISA license, or per network license.

3HE05147AA	SROS Residential per-subscriber or VPN per-site control license - per 10Gb/s. Must use with equivalent capacity identification RTU. Per system and per active ISA license, or per network license.
3HE05148AA	SROS Software license to enable use of the ISA1 for IPsec Tunneling Applications, this is a per system and per active ISA1 license.
3HE05149AA	SROS license to be able to use the MS-ISA for advanced video processing. Additional licenses are required for each video application. Per system and per active ISA license.
3HE05150AA	SROS license to be able video add insertion per splice. Requires MS-ISA card + video base software license. Per system and per active ISA license.
3HE05151AA	SROS license to be able Fast Channel Change (FCC) / Retransmissions (RET) for 1k subscribers. Requires MS-ISA card + video base software license. Per system and per active ISA license.
3HE05152AA	SROS license to be able Fast Channel Change (FCC) / Retransmissions (RET) for 10k subscribers. Requires MS-ISA card + video base software license. Per system and per active ISA license.
3HE05163AA	1-port 100/1000Base Dual Rate SGMII Small Form-Factor Pluggable (SFP) Optics Module, 1310nm, 40km, DDM Compliant
3HE05164AA	1-port 100/1000Base Dual Rate SGMII Small Form-Factor Pluggable (SFP) Optics Module, 1310nm, 10km, DDM Compliant
3HE05180AA	FAN - 7750 SR-7 Reduced Depth - Enhanced Fan Tray
3HE05260AA	Optional mounting adapters for the 7705 SAR-M to install into ETSI racks
3HE05574JA	SAR Release 20.x OS License. One (1) OS License is required for each SAR-18 in the network. See the optional RTUs available for additional advanced features. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/ .
3HE05574MA	SAR Release 22.x OS License. One (1) OS License is required for each SAR-18 in the network. See the optional RTUs available for additional advanced features. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/ .
3HE05574NA	SAR Release 23.x OS License for the basic suite of functionality. One (1) OS License is required for each SAR-18 in the network. See the optional RTUs available for additional advanced features. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/ .
3HE05580AB	PS - 7210 SAS-T/Mxp ETR (200W) AC Power Supply
3HE05581AB	PS - 7210 SAS-T/Mxp ETR -48V (200W) DC Power Supply
3HE05581BB	PS - 7210 SAS-T/Mxp ETR -48V (200W) DC Conformal Coated Power Supply Must be used with Conformal Coated System to maximize benefit of CC.
3HE05610AB	Same as 3HE05610AA. Part number for NAR Quote to cash (QTC) orders only.

3HE05610AC	Contracted Annual Software Subscription Plan (SSP) for 7705 SAR. Entitles Customer to unlimited nodal OS software upgrade licenses for one year. Annual contracts must be purchased against the total installed base for a given Customer network or channel, for a particular product family (i.e. all 7705 SAR elements). Contact local B&P team or IPD BD for more information. Customer must complete Export Control Doc. prior to release of any S/W. Part number for use on all orders outside of NAR.
3HE05837BA	Used to connect 3HE05838AA 250W 120/240V AC power converter to SAR-8 Shelf v2, SAR-A/F/M shelves and any other shelf supporting O-ring connectors
3HE05838AA	250W power adapter brick converting 120/240V AC to -48V DC. Requires separate pigtail for specific 7705 products.
3HE06006AA	8 port multi-function card with 2 x FXS and 2 x FXO ports for analog voice, 2 x G.703 co-directional ports and 2 x C37.94 optical teleprotection ports. This card is supported in both -48 and +24VDC systems.
3HE06006BA	Conformal Coated Variant of 8 port multi-function card with 2 x FXS and 2 x FXO ports for analog voice, 2 x G.703 co-directional ports and 2 x C37.94 optical teleprotection ports. This card is supported in both -48 and +24VDC systems.
3HE06022AA	SAR-18 CSM Blanking Plate
3HE06083AA	SR/ESS 32 GB Compact Flash - Spare (Blank)
3HE06151AA	8-port GigE SFP Enhanced Performance Ethernet Card, supporting Ethernet/VLAN services. Includes 8 SyncE capable GigE ports. SFPs sold separately. This card is supported in both -48 VDC and +24 VDC systems.
3HE06151AC	8-port GigE SFP Enhanced Performance Ethernet Card v3 w. Large Tables, encryption capable and supporting Ethernet/VLAN services. Includes 8 SyncE capable GigE ports. SFPs sold separately. This card is supported in both -48 VDC and +24 VDC systems. Note: SW license (3HE09302AA) required to enable hardware encryption (RTU-8 PORT GE SFP CARD V3 Encrypt)
3HE06151BA	8-port GigE SFP Enhanced Performance Ethernet Card, supporting Ethernet/VLAN services. Includes 8 SyncE capable GigE ports. SFPs sold separately. This card is supported in both -48 VDC and +24 VDC systems.
3HE06151BC	Conformal Coated Variant of 8-port GigE SFP Enhanced Performance Ethernet Card v3 w. Large Tables, encryption capable and supporting Ethernet/VLAN services. Includes 8 SyncE capable GigE ports. SFPs sold separately. This card is supported in both -48 VDC and +24 VDC systems. Note: SW license (3HE09302AA) required to enable hardware encryption (RTU-8 PORT GE SFP CARD V3 Encrypt)
3HE06153AC	1-port 10GigE or 10-port 1GigE 10G-Card v2, encryption capable. Supports one of two modes. In 1-port 10GigE mode, only one SFP+ based port can be used for nw connectivity with the other ports disabled. In 10-port 1GigE mode, ten SFP based ports can be used for access or nw connectivity. SFP/SFP+ sold separately. Additional RTU (3HE09302BA) required to use HW Encryption.
3HE06336AA	PS – 7210 SAS-M/Mxp/T ETR +24V DC Power supply
3HE06336AB	PS - 7210 SAS-T/Mxp ETR +24V (200W) DC Power Supply
3HE06338AA	ACC - 7210 SAS-M/Mxp/T 23" rack mount (5 set pack)
3HE06339AA	ACC - 7210 SAS-M/Mxp/T Fan tray filter (10 pack)
3HE06420AA	Kit used to upgrade existing 7705 T1/E1 distribution panels (3HE03394AA, 3HE03395AA, 3HE04430AA) to meet IEEE1613 and IEC 61850-3 environmental specifications

3HE06485AA	1-port 40GBase LR4 10km QSFP+ Optics Module, 10km, LC Connector, RoHS 6/6 compliant, Digital Diagnostic Monitor (DDM)
3HE06486AA	SROS Enhanced Subscriber Management (ESM) base license. This base ESM license is required for using the ESM features on 7x50 platforms for IPoE, PPPoE, PPPOA, and L2TP subscribers. Use of embedded DHCPv4 and DHCPv6 server functionality on 7x50 is also included in this license. This is a per system license applicable to all 7x50 platforms using any flavor or IMM, IOM , MDA or CMA. It applies to both layer-2 and layer-3 (routed CO) ESM models, and includes IPv4, IPv6 and dual-stack access. Requires L2HQ or L3HQ licenses on the IMM modules. Additional per subscriber licenses apply.
3HE06487AA	SROS Enhanced Subscriber Management (ESM) subscriber-host license for up to 4K subscriber-hosts. This is a per system license. Multiple of these RTUs could be bought to match the total number of subscribers targetted to be supported on the chassis.
3HE06488AA	RTU - 7x50 Enhanced Subscriber Management (ESM) subscriber-host license for up to 16K subscriber-hosts. This is a per chassis license. Multiple of these RTUs could be bought to match the total number of subscribers targetted to be supported on the chassis.
3HE06489AA	SROS Enhanced Subscriber Management (ESM) subscriber-host license for up to 32K subscriber-hosts. This is a per system license. Multiple of these RTUs could be bought to match the total number of subscribers targetted to be supported on the chassis.
3HE06490AA	SROS Enhanced Subscriber Management (ESM) subscriber-host license for up to 64K subscriber-hosts. This is a per system license. Multiple of these RTUs could be bought to match the total number of subscribers targetted to be supported on the chassis.
3HE06491AA	SROS Enhanced Subscriber Management (ESM) subscriber-host license for up to 128K subscriber-hosts. This is a per system license. Multiple of these RTUs could be bought to match the total number of subscribers targetted to be supported on the chassis.
3HE06582AA	1-color CWDM add-drop OADM module for the SAR-8/18. 1 Tx and 1 Rx at 1471 nm is filtered by East and West directions.
3HE06582AB	1-color CWDM add-drop OADM module for the SAR-8/18. 1 Tx and 1 Rx at 1491 nm is filtered by East and West directions.
3HE06582AC	1-color CWDM add-drop OADM module for the SAR-8/18. 1 Tx and 1 Rx at 1511 nm is filtered by East and West directions.
3HE06582AD	1-color CWDM add-drop OADM module for the SAR-8/18. 1 Tx and 1 Rx at 1531 nm is filtered by East and West directions.
3HE06582AE	1-color CWDM add-drop OADM module for the SAR-8/18. 1 Tx and 1 Rx at 1551 nm is filtered by East and West directions.

3HE06582AF	1-color CWDM add-drop OADM module for the SAR-8/18. 1 Tx and 1 Rx at 1571 nm is filtered by East and West directions.
3HE06582AG	1-color CWDM add-drop OADM module for the SAR-8/18. 1 Tx and 1 Rx at 1591 nm is filtered by East and West directions.
3HE06582AH	1-color CWDM add-drop OADM module for the SAR-8/18. 1 Tx and 1 Rx at 1611 nm is filtered by East and West directions.
3HE06583AA	2-color CWDM add-drop OADM module for the SAR-8/18. 1 Tx and 1 Rx at 1471 and 1491 nm are filtered by East and West directions.
3HE06583AB	2-color CWDM add-drop OADM module for the SAR-8/18. 1 Tx and 1 Rx at 1511 and 1531 nm are filtered by East and West directions.
3HE06583AC	2-color CWDM add-drop OADM module for the SAR-8/18. 1 Tx and 1 Rx at 1551 and 1571 nm are filtered by East and West directions.
3HE06583AD	2-color CWDM add-drop OADM module for the SAR-8/18. 1 Tx and 1 Rx at 1591 and 1611 nm are filtered by East and West directions.
3HE06584AA	4-color CWDM add-drop OADM module for the SAR-8/18. 1 Tx and 1 Rx at 1471, 1491, 1511 and 1531 nm are filtered from the line (single direction) with expansion port.
3HE06584AB	4-color CWDM add-drop OADM module for the SAR-8/18. 1 Tx and 1 Rx at 1551, 1571, 1591 and 1611 nm are filtered from the line (single direction) with expansion port.
3HE06585AA	8-color CWDM optical Mux/Demux module for the SAR-8/18. 1 Tx and 1 Rx at 1471, 1491, 1511, 1531, 1551, 1571, 1591 and 1611 nm are filtered from the line (single direction).
3HE06681JA	SAR Release 20.x OS Upgrade for the basic suite of functionality. One (1) OS Upgrade is required for each SAR-18 in the network. See the optional RTUs available for additional advanced features. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/
3HE06681MA	SAR Release 22.x OS Upgrade for the basic suite of functionality. One (1) OS Upgrade is required for each SAR-18 in the network. See the optional RTUs available for additional advanced features. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/
3HE06681NA	SAR Release 23.x OS Upgrade for the basic suite of functionality. One (1) OS Upgrade is required for each SAR-18 in the network. See the optional RTUs available for additional advanced features. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/
3HE06791AA	SAR-8 Shelf V2 that accepts redundant DC-power feeds and up to 2 CSMs (V1 or V2) and up to 6 interface cards. Fan Module must be version associated with this V2 shelf. 6 Blanking plates included.
3HE06791BA	Conformal Coated SAR-8 Shelf V2 that accepts redundant DC-power feeds and up to 2 CSMs (V1 or V2) and up to 6 interface cards. Fan Module must be version associated with this V2 shelf. 6 Blanking plates included.
3HE06792EA	Fan Module with extended temperature Range. Installs into SAR-8 Shelf v2 (3HE06791AA). -48/+24 VDC
3HE06792FA	Conformal Coated Variant of Fan Module with extended temperature Range. Installs into SAR-8 Shelf v2 (3HE06791AA). -48/+24 VDC

3HE06794AA	Terminates 8 analog FXO interfaces to a central PBX. RJ45 connector access (2 ports/connector). This card is supported in both -48 VDC and +24 VDC systems.
3HE06794BA	Conformal Coated Variant of FXO card. Terminates 8 analog FXO interfaces to a central PBX. RJ45 connector access (2 ports/connector). This card is supported in both -48 VDC and +24 VDC systems.
3HE06972AB	PSE Certified 100W High Voltage Power Supply – Requires a single 85-264VAC or 88-300VDC input, and provides a single 54VDC output (6' cable length). This supply is DIN rail or wall/panel mountable with mounting hardware included. Does not include AC cord. AC cords (3HE10447AA or 3HE10040AA or 3HE10041AA) needs to be ordered separately.
3HE07152AA	Power injector card allows up to two MPR-e to draw power from SAR-8/18 chassis directly via copper 1000BaseT link . Lightning protection and voltage surge suppression is supported. -48VDC
3HE07161CA	1-port 10GBASE CWDM Small Form-Factor Pluggable (SFP+) Optics Module, Single Mode Fiber (SMF), 40km, 1471 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant.
3HE07161CB	1-port 10GBASE CWDM Small Form-Factor Pluggable (SFP+) Optics Module, Single Mode Fiber (SMF), 40km, 1491 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant.
3HE07161CC	1-port 10GBASE CWDM Small Form-Factor Pluggable (SFP+) Optics Module, Single Mode Fiber (SMF), 40km, 1511 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant.
3HE07161CD	1-port 10GBASE CWDM Small Form-Factor Pluggable (SFP+) Optics Module, Single Mode Fiber (SMF), 40km, 1531 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant.
3HE07161CE	1-port 10GBASE CWDM Small Form-Factor Pluggable (SFP+) OpticsModule, Single Mode Fiber (SMF), 40km, 1551 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant.
3HE07161CF	1-port 10GBASE CWDM Small Form-Factor Pluggable (SFP+) Optics Module, Single Mode Fiber (SMF), 40km, 1571 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant.
3HE07161CG	1-port 10GBASE CWDM Small Form-Factor Pluggable (SFP+) Optics Module, Single Mode Fiber (SMF), 40km, 1591 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant.
3HE07161CH	1-port 10GBASE CWDM Small Form-Factor Pluggable (SFP+) Optics Module, Single Mode Fiber (SMF), 40km, 1611 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant.
3HE07165AA	7750 SR12e DC Integrated Chassis bundle, includes the following; (1) 3HE07440AB - 7750 SR12e Chassis (3) 3HE07168AA - 7750 SR12e Fan Trays
3HE07168AA	FAN - 7750 SR12e Fan Tray
3HE07310AA	SROS Base WIFI aggregation License. This is a per system license.
3HE07310AB	SROS Diameter Credit Control License. This is a per system license.
3HE07310AC	SROS Multiple SSID Support License. This is a per system license.
3HE07310AD	SROS Inter-AP WIFI Mobility License. This is a per system license.
3HE07310AE	SROS WIFI Agg. 4K - shaped AP tunnels. This is a per system license.
3HE07310AF	SROS WIFI Agg. 8K - shaped AP tunnels. This is a per system license.
3HE07310AG	SROS WIFI Agg. 16K - shaped AP tunnels. This is a per system license.
3HE07310AH	SROS WIFI Agg. 32K - shaped AP tunnels. This is a per system license.
3HE07310AJ	SROS WIFI Agg. 64K - shaped AP tunnels. This is a per system license.

3HE07310AK	SROS WIFI Agg. 128K - shaped AP tunnels. This is a per system license.
3HE07310AL	SROS WLAN to 3G/4G Interworking License. This is a per system license.
3HE07310AM	SROS WLAN to 3G/4G - 4K Bearers. This is a per system license.
3HE07310AN	SROS WLAN to 3G/4G - 8K Bearers. This is a per system license.
3HE07310AP	SROS WLAN to 3G/4G - 16K Bearers. This is a per system license.
3HE07310AR	SROS WLAN to 3G/4G - 32K Bearers. This is a per system license.
3HE07310AT	SROS WLAN to 3G/4G - 64K Bearers. This is a per system license.
3HE07310AU	SROS WLAN to 3G/4G - 128K Bearers. This is a per system license.
3HE07310AV	SROS WLAN to 3G/4G - 256K Bearers. This is a per system license.
3HE07353AA	SAR-Hc with redundant (20-75V) DC power feeds. DIN rail or panel mountable. Node has 6 10/100/1000 Mbps Ethernet ports (2 SFP, 2 RJ45, 2 POE RJ45), and 2 RS232 ports . OS and other licenses sold separately. DIN rail or panel mounting hardware sold separately.
3HE07353BA	SAR-Hc with conformal coating on internal PCBs. Has redundant (20-75V) DC power feeds. DIN rail or panel mountable. Node has 6 10/100/1000 Mbps Ethernet ports (2 SFP, 2 RJ45, 2 POE RJ45), and 2 RS232 ports . OS and other licenses sold separately. DIN rail or panel mounting hardware sold separately.
3HE07354AA	RTU - PoE/PoE+ license for PoE-capable ports in the SAR-W/H/Hc as well as the SAR-M Ethernet Module. One (1) OS License is required for each SAR-W/H/Hc/M in the network (not needed for PoE variants of the SAR-Wx).
3HE07354AB	RTU - IP Multicast license. One (1) OS License is required for each SAR in the network.
3HE07354AC	RTU - IP IEEE1588 PTP Time/Phase license. Applicable to 1588 Slave or Boundary or Grandmaster Clocks. OAM performance can be improved with PTP time accuracy. One (1) OS License is required for each SAR in the network.
3HE07354AF	RTU - 7705 SAR-8/18 Multi Drop Data Bridging (MDDB) RTU License for use on the 3HE07942AA Integrated Services Card (ISC). One (1) MDDB License required for up to 25 SAR-8/18s in the network using the ISC card. Incremental license (3HE07354AH) required for each node beyond 25 in network. Supports a maximum of 16 bridges per card with each bridge supporting 30 branches. SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/
3HE07354AH	RTU - 7705 SAR-8/18 Multi Drop Data Bridging (MDDB) RTU License for additional nodes using the 3HE07942AA Integrated Services Card (ISC). One (1) MDDB License required for up each SAR-8/18 in the network using the ISC card beyond the 25 associated with the 3HE07354AF RTU- MDDB License. Supports a maximum of 16 bridges per card with each bridge supporting 30 branches. SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/

3HE07354AJ	RTU - 7705 SAR-8/18 PCM Multidrop Bridging RTU License for use on the 3HE07942AA Integrated Services Card (ISC). One (1) PCM Multidrop License required for up to 25 SAR-8/18s in the network using the ISC card. Incremental license (3HE07354AK) required for each node beyond 25 in network. Supports a maximum of 16 bridges per card with each bridge supporting 30 branches (E1) or 24 branches (T1). SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/
3HE07354AK	RTU - 7705 SAR-8/18 PCM Multidrop Bridging RTU License for additional nodes using the 3HE07942AA Integrated Services Card (ISC). One (1) PCM Multidrop License (Additional Nodes) required for up each SAR-8/18 in the network using the ISC card beyond the 25 associated with the 3HE07354AJ RTU- PCM Multidrop Bridging License. Supports a maximum of 16 bridges per card with each bridge supporting 30 branches (E1) or 24 branches (T1). SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/
3HE07354AN	RTU - 7705 SAR-8/18 Voice Conference Bridging (VCB) RTU License for use on the 3HE07942AA Integrated Services Card (ISC). One (1) VCB License required for up to 25 SAR-8/18s in the network using the ISC card. Incremental license (3HE07354AP) required for each node beyond 25 in network. Supports a maximum of 16 bridges per card with each bridge supporting 30 branches (E1) or 24 branches (T1). SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/
3HE07354AP	RTU - 7705 SAR-8/18 Voice Conference Bridging (VCB) RTU License for additional nodes using the 3HE07942AA/BA Integrated Services Card (ISC). One (1) VCB Multidrop License (Additional Nodes) required for up each SAR-8/18 in the network using the ISC card beyond the 25 associated with the 3HE07354AN RTU- VCB License. Supports a maximum of 16 bridges per card with each bridge supporting 30 branches (E1) or 24 branches (T1). SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/
3HE07354AR	RTU – VPN Multicast license. One (1) OS License is required for each SAR in the network.
3HE07357AA	Kit contains DIN rail bracket and hardware to mount the SAR-Hc to a DIN rail from the rear of the chassis.
3HE07357AB	Kit contains DIN rail bracket and hardware to mount the SAR-Hc to a DIN rail from the side of the chassis.
3HE07440AB	7750 SR12e Chassis Spare. Includes; 7750 SR12e Chassis & Fan Filter.
3HE07442AA	7750 SR-12e LUG KIT contains the following; #4AWG 1/4" with 0.625" spacing - Qty 18
3HE07457AA	7750 SR12e Air & APEQ Filter Qty 5
3HE07460AA	7750 SR12e Accessory Kit Includes: Mounting Hardware, Wrist Strap, 6' Null Cable DB9F - DB9F

3HE07463AA	SROS VPLS Service Right To Use License. A per system license. Allows the use of up to 64 VPLS service instances in one system (any mix of VPLS types). Not controlled by this license: Number of SAPs, queues, policers, RTU for EVPN in VPLS instances.
3HE07464AA	SROS VPLS Service Right To Use License. A per system license. Allows the use of up to 512 VPLS service instances in one system (any mix of VPLS types). Not controlled by this license: Number of SAPs, queues, policers, RTU for EVPN in VPLS instances.
3HE07465AA	SROS VPLS Service Right To Use License. A per system license. Allows the use of up to 2,000 VPLS service instances in one system (any mix of VPLS types). Not controlled by this license: Number of SAPs, queues, policers, RTU for EVPN in VPLS instances.
3HE07466AA	SROS VLL Service Right To Use License. A per system license. Allows the use of up to 256 terminating VLL service instances in one system. This license also adds the RTU for support of full scale dynamic multi-segment pseudowire routing (stitching). The RTU for statically configured pseudowire switching is also included, and each static switched VLL counts towards the 256 VLL limit. Not controlled by this license: Number of SAPs, queues or policers, RTU for EVPN in VLL instances.
3HE07467AA	SROS VLL Service Right To Use License. A per system license. Allows the use of up to 4,000 terminating VLL service instances in one system. This license also adds the RTU for support of full scale dynamic multi-segment pseudowire routing (stitching). The RTU for statically configured pseudowire switching is also included, and each static switched VLL counts towards the 4095 VLL limit. Not controlled by this license: Number of SAPs, queues or policers, RTU for EVPN in VLL instances.
3HE07468AA	SROS VLL Service Right To Use License. A per system license. Allows the use of up to 32,000 terminating VLL service instances in one system. This license also adds the RTU for support of full scale dynamic multi-segment pseudowire routing (stitching). The RTU for statically configured pseudowire switching is also included, and each static switched VLL counts towards the 32767 VLL limit. Not controlled by this license: Number of SAPs, queues or policers, RTU for EVPN in VLL instances.
3HE07469AA	SROS SAP Right To Use License. A per system license. Allows the use of up to 32k SAPs across all services. Not controlled by this license: RTU for VLL,VPLS or VPRN service instances.
3HE07473AA	SROS basic cFlowd license. A per system license. Allows the use of all cFlowd functionality.
3HE07529AA	OSP cabinet 10/100/1000BT Ethernet surge protector, single line
3HE07592AA	SROS VLL Service Right To Use License. A per system license. Allows the use of up to 64,000 terminating VLL service instances in one system. This license also adds the RTU for support of full scale dynamic multi-segment pseudowire routing (stitching). The RTU for statically configured pseudowire switching is also included, and each static switched VLL counts towards the 65535 VLL limit. Not controlled by this license: Number of SAPs, queues or policers, RTU for EVPN in VLL instances.

3HE07593AA	SROS 64K SAP Right To Use License. A per system license. Allows the use of up to 64k SAPs across all services. Not controlled by this license: RTU for VLL,VPLS or VPRN service instances.
3HE07614AA	10Gb/s HD, environmentally hardened in IP65 rated, fan-less (-40°C to +65°C), with 5 GigE Ethernet ports (3 x SFP, 2 x RJ45). OS and other licenses sold separately.
3HE07617AA	10Gb/s HD, environmentally hardened in IP65 rated, fan-less (-40°C to +65°C), with 5 GigE Ethernet ports (3 x SFP, 2 x RJ45) and integrated GPS receiver and PoE+ port. OS and other licenses sold separately.
3HE07645AA	SROS VPLS Service Right To Use License. A per system license. Allows the use of up to 8,000 VPLS service instances in one system (any mix of VPLS types). Not controlled by this license: Number of SAPs, queues, policers , RTU for EVPN in VPLS instances.
3HE07671AA	OSP cabinet -48VDC incoming power surge protector, din rail mount. Min order Qty of 25 required on all orders.
3HE07672AA	Bracket to hold up to 16 Ethernet surge protectors with ground wire, used with ALP-7705/7210 5RU cabinet. Min order Qty of 25 required on all orders
3HE07675AB	ALP-7705/7210 Cabinet battery Compartment to house batteries when the cabinet is fed with AC and the deployment requires battery hold up time. Min order Qty of 25 required on all orders
3HE07676AA	battery cable kit to hook up batteries from the rectifier to the battery string. Min order Qty of 25 required on all orders
3HE07677AB	ALP-7705/7210 cabinet pole mount kit required when mounting the cabinet to a pole. Min order Qty of 10 required on all orders
3HE07678AA	ALP-7705/7210 5RU Cabinet concrete Pad mounting pour in place anchor plate. Used in conjunction with a concrete pad installations. Min order Qty of 25 required on all orders
3HE07679AA	10-position DC distribution / GMT fuse panel.Used with DC input power. Min order Qty of 10 required on all orders
3HE07757AA	ACC - 7x50 Power Terminal Cover (2 pack).Only used on the SR-12
3HE07776AA	SROS Software license to enable use of IPsec Multi-Chassis Redundancy feature. This is a per system and per active ISA1 license. Multiple of these RTUs could be bought to match the total number of ISA1 that need IPsec Multi-Chassis Redundancy support.
3HE07777AA	SROS Stateful Firewall License per 10Gbps. Per system and per active ISA license, or per network license.
3HE07800AA	Mounting bracket kit for individual SAR-W mounting to pole/wall. Hardware not included. This unit may not be required in all installation scenarios.
3HE07801AA	Ergonomic handles compatible with the SAR-W/Wx. Handles are removable/reusable. There are two handles per kit.
3HE07803AA	12m AC Power Cable for the SAR-W/Wx.
3HE07804AA	Weather proof kit for termination of Ethernet copper cables on the SAR-W/Wx. Includes five (5) cable terminations per kit. Not suitable for fiber terminations.
3HE07804BA	Weather proof flexible kit for termination of both Ethernet fiber/copper on the SAR-W/Wx. Includes five (5) cable terminations per kit.
3HE07905AA	Accessory Kit - Dust Covers Qty 20 for SFP/SFP+
3HE07906AA	Accessory Kit - Dust Covers Qty 10 for XFP/QSFP+
3HE07928AA	1-port 40GBase SR4 QSFP+ Optics Module, 100m, MMF, MPO Connector, RoHS 6/6 compliant, Digital Diagnostic Monitor (DDM)

3HE07938AA	4-port OC3/STM1 or 1-port OC12/STM4 Card, with support for clear channel or channelization down to DS1/E1. In the OC3/STM1 mode, each port can be independently configured for the different services and access/network. In access mode, each port must be configured for TDM. In network mode, each port must be configured for MLPPP or POS. This card is supported in both -48 VDC & +24 VDC systems. SFPs sold separately.
3HE07942AA	Application resource card. Requires purchase of application-specific RTU - MDDDB LICENSE - 3HE07354AF, .RTU - MDDDB LICENSE (ADDITIONAL NODES) - 3HE07354AH This card is supported in both -48 VDC and +24 VDC systems
3HE07942BA	Conformal Coated Variant of Application resource card. Requires purchase of application-specific RTU - MDDDB LICENSE - 3HE07354AF, .RTU - MDDDB LICENSE (ADDITIONAL NODES) -3HE07354AH This card is supported in both -48 VDC and +24 VDC systems
3HE07943AA	6 port (2 x 10G SFP+, 4 x 1G – SFP) Ethernet 10Gbps card. Optics (SFP, SFP+) are sold separately. This card is supported in both -48 VDC and +24 VDC systems.
3HE07943BA	Conformal Coated Variant of 6 port (2 x 10G SFP+, 4 x 1G – SFP) Ethernet 10Gbps card. Optics (SFP, SFP+) are sold separately. This card is supported in both -48 VDC and +24 VDC systems.
3HE07945AA	Kit contains bracket hardware for mounting the SAR-Hc to a panel from the rear of the chassis.
3HE07945AB	Kit contains bracket hardware for mounting the SAR-Hc to a panel from the side of the chassis.
3HE07954AA	SAR-8/18 card supporting an integrated GNSS receiver which can provide a PRC-traceable frequency, PRTC-traceable time of day clock and geographic location. It can be used in conjunction with integrated IEEE1588v2 for GM capabilities.- 48/+24 VDC.
3HE07957AA	SAR-Wx Pole/Wall Mounting Bracket
3HE07958AA	SAR-Wx Strand Mounting Bracket
3HE07959AA	SAR-Wx GPS Antenna Mounting
3HE07960AA	SAR-Wx 0.35m GPS Cable
3HE07961AA	1.0/2.3 DIN right-angle plug at SAR-H/8/18, 7/16 DIN straight plug towards antenna
3HE07962AA	1.0/2.3 DIN right-angle plug at SAR-H/8/18, N-type straight plug towards antenna
3HE08151AA	CHAS - 7210 SAS-R6 CHASSIS SPARE
3HE08152AA	FAN - 7210 SAS-R6 Fan Tray
3HE08153AA	PEM - 7210 SAS-R6 -48V
3HE08154AB	SF/CPM - 7210 SAS-R6
3HE08159AA	ACC - 7210 SAS-R IMM Impedance Panel
3HE08166AA	ACC - 7210 SAS-R6 SF/CPM Impedance Panel
3HE08167AA	ACC - 7210 SAS-R6 PEM Impedance Panel
3HE08168AA	ACC - 7210 SAS-R6 Air Filter 5 pack
3HE08217AA	1-port 100GBaseLR4 Low Power 10km CFP2 Optics Module, 10km, LC Connector, RoHS 6/6 compliant
3HE08228AA	SROS IBN Res 10K Subs - Right to Use (RTU) required for Application Assurance IBN rules for in-browser notification (IBN) for wifi DSM subscribers. One (1) of these RTUs is required for every increment of 10,000 subscribers. Multiple instances may be applied to allow the desired scale. Per network license.
3HE08279AA	OSP cabinet AC incoming power surge protector. Min order Qty of 10 required on all orders

3HE08279BA	OSP cabinet 24VDC incoming power surge protector, din rail mount.Min order Qty of 25 required on all orders.
3HE08280AB	-48VDC OSP cabinet, with Heat Exchanger thermal system, for use with the 7210 SAS and 7705 SAR routers. AC compatible with AC to DC rectifier option. Min order Qty of 25 required on all orders
3HE08312AA	1-port 100GBase SR10 100 meter CFP2 Optics Module, MultiMode, MPO Connector, RoHS 6/6 compliant, 0/70C, Non-DDM Compliant
3HE08313AA	2-ports 1000BASE-BX10-U (Up-Stream) Bi-Directional (BiDi) Small Form-Factor Pluggable (SFP) Optics Module, Single Mode Fiber (SMF), 10km, TX:1310 nm, RX: 1490 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant, -40/85C
3HE08313BA	2-ports 1000BASE-BX10-D (Down-Stream) Bi-Directional (BiDi) Small Form-Factor Pluggable (SFP) Optics Module, Single Mode Fiber (SMF), 10km, TX: 1490 nm, RX: 1310 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 Compliant, -40/85C
3HE08314AA	2-ports 1000BASE-BX40-U (Up-Stream) Bi-Directional (BiDi) Small Form-Factor Pluggable (SFP) Optics Module, Single Mode Fiber (SMF), 40km, TX:1310 nm, RX: 1490 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant, -40/85C
3HE08314BA	2-ports 1000BASE-BX40-D (Down-Stream) Bi-Directional (BiDi) Small Form-Factor Pluggable (SFP) Optics Module, Single Mode Fiber (SMF), 40km, TX: 1490 nm, RX: 1310 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 Compliant, -40/85C
3HE08423AA	Spare - 7750 SR CPM5
3HE08428AA	Spare - 7750 SR SFM5-12
3HE08429AA	Spare - 7750 SR SFM5-7
3HE08430AA	Spare - SFM - 7450 ESS SFM5-12
3HE08431AA	Spare - SFM - 7450 ESS SFM5-7
3HE08432AA	Spare - CPM - 7450 ESS CPM5
3HE08534AA	7705 SAR-X with 2x10GE SFP+, 12x1GE (4xCombo SFP/RJ45 + 8x1G SFP) & 8 T1/E1. Accepts Redundant DC Power Input (+24V/-48V).
3HE08534BA	7705 SAR-X (Conformal Coated Variant) with 2x10GE SFP+, 12x1GE(4xCombo SFP/RJ45 + 8x1G SFP) & 8 T1/E1. Accepts Redundant DC Power Input (+24V/-48V).
3HE08590AA	Cable ASSM, QSFP+-to-QSFP+ Passive Direct Attach Cable (DAC), 1 meter length - package of 4
3HE08591AA	Cable ASSM, QSFP+-to-QSFP+ Passive Direct Attach Cable (DAC), 3 meter length - package of 4
3HE08592AA	Cable ASSM, QSFP+-to-QSFP+ Passive Direct Attach Cable (DAC), 7 meter length - package of 4
3HE08605AA	ACC - 7210 SAS E/M/T/Mxp DC-Power input connector 10 Pack
3HE08607AA	RTU - SAR-H Basic IPSec license. Including Encryption Throughput of 150 Mbps and Maximum of 25 IPSec Tunnels. One (1) OS License is required for each SAR-H in the network.
3HE08607AB	RTU - SAR-H Upgrade IPSec license. Upgrade Basic IPSec license to Full IPSec license. One (1) OS License is required for each SAR-H in the network.
3HE08607AC	RTU - SAR-H Full IPSec license. Including Maximum supported Encryption Throughput and Maximum supported IPSec Tunnels. One (1) OS License is required for each SAR-H in the network.
3HE08607BA	RTU - SAR-Hc Basic IPSec license. Including Encryption Throughput of 150 Mbps and Maximum of 25 IPSec Tunnels. One (1) OS License is required for each SAR-Hc in the network.

3HE08607BB	RTU - SAR-Hc Upgrade IPsec license. Upgrade Basic IPsec license to Full IPsec license. One (1) OS License is required for each SAR-Hc in the network.
3HE08607BC	RTU - SAR-Hc Full IPsec license. Including Maximum supported Encryption Throughput and Maximum supported IPsec Tunnels. One (1) OS License is required for each SAR-Hc in the network.
3HE08607CA	RTU - SAR-W Basic IPsec license. Including Encryption Throughput of 150 Mbps and Maximum of 10 IPsec Tunnels. One (1) OS License is required for each SAR-W in the network.
3HE08607CB	RTU - SAR-W Upgrade IPsec license. Upgrade Basic IPsec license to Full IPsec license. One (1) OS License is required for each SAR-W in the network.
3HE08607CC	RTU - SAR-W Full IPsec license. Including Maximum supported Encryption Throughput and Maximum supported IPsec Tunnels. One (1) OS License is required for each SAR-W in the network.
3HE08607DA	RTU - SAR-Wx Basic IPsec license. Including Encryption Throughput of 150 Mbps and Maximum of 25 IPsec Tunnels. One (1) OS License is required for each SAR-Wx in the network.
3HE08607DB	RTU - SAR-Wx Upgrade IPsec license. Upgrade Basic IPsec license to Full IPsec license. One (1) OS License is required for each SAR-Wx in the network.
3HE08607DC	RTU - SAR-Wx Full IPsec license. Including Maximum supported Encryption Throughput and Maximum supported IPsec Tunnels. One (1) OS License is required for each SAR-Wx in the network.
3HE08607EA	RTU - SAR-8 Basic IPsec license. Including Encryption Throughput of 250 Mbps and Maximum of 50 IPsec Tunnels. One (1) OS License is required for each SAR-8 in the network. Note: Additional licenses (3HE09302AA, 3HE09302BA,3HE09302CA) required to enable hardware encryption
3HE08607EB	RTU - SAR-8 Upgrade IPsec license. Upgrade Basic IPsec license to Full IPsec license. One (1) OS License is required for each SAR-8 in the network. Note: Additional licenses (3HE09302AA, 3HE09302BA,3HE09302CA) required to enable hardware encryption
3HE08607EC	RTU - SAR-8 Full IPsec license. Including Maximum supported Encryption Throughput and Maximum supported IPsec Tunnels. One (1) OS License is required for each SAR-8 in the network. Note: Additional licenses (3HE09302AA, 3HE09302BA,3HE09302CA) required to enable hardware encryption
3HE08607FA	RTU - SAR-18 Basic IPsec license. Including Encryption Throughput of 500 Mbps and Maximum of 50 IPsec Tunnels. One (1) OS License is required for each SAR-18 in the network. Note: Additional licenses (3HE09302AA, 3HE09302BA,3HE09302CA) required to enable hardware encryption
3HE08607FB	RTU - SAR-18 Upgrade IPsec license. Upgrade Basic IPsec license to Full IPsec license. One (1) OS License is required for each SAR-18 in the network. Note: Additional licenses (3HE09302AA, 3HE09302BA,3HE09302CA) required to enable hardware encryption
3HE08607FC	RTU - SAR-18 Full IPsec license. Including Maximum supported Encryption Throughput and Maximum supported IPsec Tunnels. One (1) OS License is required for each SAR-18 in the network. Note: Additional licenses (3HE09302AA, 3HE09302BA,3HE09302CA) required to enable hardware encryption

3HE08607GA	RTU - SAR-X Basic IPSec license. Including Encryption Throughput of 150 Mbps and Maximum of 25 IPSec Tunnels. One (1) OS License is required for each SAR-X in the network. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/ .
3HE08607GB	RTU - SAR-X Upgrade IPSec license. Upgrade Basic IPSec license to Full IPSec license. One (1) OS License is required for each SAR-X in the network. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/ .
3HE08607GC	RTU - SAR-X Full IPSec license. Including Maximum supported Encryption Throughput and Maximum supported IPSec Tunnels. One (1) OS License is required for each SAR-X in the network. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/ .
3HE08607HA	RTU - SAR-Ax Basic IPSec license. Including Encryption Throughput of 150 Mbps and Maximum of 25 IPSec Tunnels. One (1) OS License is required for each SAR-Ax. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/ .
3HE08607HB	RTU - SAR-Ax Upgrade IPSec license. Upgrade Basic IPSec license to Full IPSec license. One (1) OS License is required for each SAR-Ax. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/ .
3HE08607HC	RTU - SAR-Ax Full IPSec license. Including Maximum supported Encryption Throughput and Maximum supported IPSec Tunnels. One (1) OS License is required for each SAR-Ax. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/ .
3HE08607JA	RTU - SAR-Hm/Hmc IPSec license. Including maximum supported encryption throughput available on one SAR-Hm/Hmc. One (1) OS License is required for each SAR-Hm/Hmc in the network.
3HE08703AA	SAR-Wx/W, 7450 ESS/7750 SR CPM5, XRS-16c/20/40 - CONSOLE CBL, 5 FT w RJ45 to DB9 adapter.
3HE08898AA	BNDL - 7210 SAS-R6 (1) 3HE08151AA CHAS - 7210 SAS-R6 CHASSIS SPARE (1) 3HE08154AB SF/CPM - 7210 SAS-R6 (1) 3HE08166AA ACC - 7210 SAS-R6 SF/CPM Impedance Panel (1) 3HE08152AA FAN - 7210 SAS-R6 Fan Tray (2) 3HE08153AA PEM - 7210 SAS-R6 -48V (5) 3HE08159AA ACC - 7210 SAS-R IMM Impedance Panel

3HE08996JA	OS – 7210 SAS-R Base OS License Release 22.X Base OS license. This is a per chassis license, valid for release 22.X. It provides the base OS and includes support for native and MPLS-based Ethernet services (e.g. VPLS and Epipe services) to operate 7210 SAS-R6 and 7210 SAS-R12 chassis.. It excludes the use of MPLS-TP and IP services (e.g. VPRNs and IES services). It must be also purchased for upgrade to release 22.X. One (1) Operating Software License is required for each 7210 SAS-R6 or 7210 SAS-R12 in the network. Includes two (2) 2GB Compact Flashes with the Operating Software.
3HE08996KA	OS – 7210 SAS-R Base OS License Release 23.X Base OS license. This is a per chassis license, valid for release 23.X. It provides the base OS and includes support for native and MPLS-based Ethernet services (e.g. VPLS and Epipe services) to operate 7210 SAS-R6 and 7210 SAS-R12 chassis.. It excludes the use of MPLS-TP and IP services (e.g. VPRNs and IES services). It must be also purchased for upgrade to release 23.X. One (1) Operating Software License is required for each 7210 SAS-R6 or 7210 SAS-R12 in the network. Includes two (2) Compact Flashes with the Operating Software.
3HE08997AA	RTU – 7210 SAS-R IP Services License. This is a per chassis license and is required for each 7210 SAS-R6 and 7210 SAS-R12 chassis. It enables support of IP services (e.g. VPRN, IES and L3 VPNs using BGP 3107).
3HE08998AA	RTU – 7210 SAS-R MPLS-TP Services License. This is a per chassis license and is required for each 7210 SAS-R6 and 7210 SAS-R12 chassis. It enables MPLS-TP based Ethernet services (i.e. Epipe services).
3HE08999AA	RTU – 7210 SAS-R PTP/1588 & Timing Interfaces License. This is a per chassis license and is required for each 7210 SAS-R6 and 7210 SAS-R12 chassis. It enables the following Timing interfaces and software – BITS, 1pps, 10MHz, ToD and PTP/1588. NOTE: SyncE is available with the base OS software license and does not require a separate license.
3HE09017AA	SROS Software license to enable 1K IPsec IKEv2 Remote-Access Tunnels. Per network license.
3HE09018AA	SROS Software license to enable 10K IPsec IKEv2 Remote-Access Tunnels. Per network license.

3HE09022AA	SROS VPLS Service Right To Use License. A per system license. Allows the use of up to 40,000 VPLS service instances in one system (any mix of VPLS types). Not controlled by this license: Number of SAPs, queues, policers
3HE09023AA	SROS VLL Service Right To Use License. A per system license. Allows the use of up to 192,000 terminating VLL service instances in one system. This license also adds the RTU for support of full scale dynamic multi-segment pseudowire routing (stitching). The RTU for statically configured pseudowire switching is also included, and each static switched VLL counts towards the 196607 VLL limit. Not controlled by this license: Number of SAPs, queues or policers, RTU for EVPN in VLL instances.
3HE09024AA	SROS 256K SAP Right To Use License. A per system license. Allows the use of up to 256k SAPs across all services. Not controlled by this license: RTU for VLL, VPLS or VPRN service instances.
3HE09028AA	SROS Hybrid OpenFlow Switch license. A per system license. Allows configuration of Hybrid OpenFlow switch functionality for traffic steering subject to limitations imposed by the particular SROS release deployed and the capabilities of the deployed hardware in the system
3HE09095AA	Rear attachable tray for SAR-A/SAR-Ax (3HE06797AA, 3HE06796AA, 3HE10329AA) designed to hold two 100W Power Supplies (3HE06972AB).
3HE09116AA	ACC - 7210 R6 ETSI Cabinet & Cable Management bracket (This includes sufficient brackets to mount 1 Chassis)
3HE09119AA	SROS Software license to enable use of IP Tunneling Applications (GRE, IP in IP) per 10Gbps capacity. Per network or per system and active ISA license.
3HE09152AA	IMM - 7210 SAS-R-b 10SFP - 1SFP+
3HE09153AA	IMM - 7210 SAS-R-b 2SFP+
3HE09154AA	IMM - 7210 SAS-R-b 4SFP+
3HE09155AA	IMM - 7210 SAS-R-b 11SFP/22cSFP
3HE09156AA	IMM - 7210 SAS-R-b 16TX
3HE09157AA	ACC - 7210 SAS-R6 DC-Power input connector 10 Pack
3HE09195AA	7750 SR-a4 4-slot Chassis Spare (Includes Air Filter)
3HE09196AA	7750 SR-a8 8-slot Chassis Spare (Includes Air Filter)
3HE09197AA	7750 SR-a4 fan Tray Module Spare
3HE09198AA	7750 SR-a8 fan Tray Module Spare
3HE09199AA	7750 SR-a Family -48v DC Power Supply Unit.
3HE09200AA	7750 SR-a Family AC Power Supply Unit. Cables Purchased Separately.
3HE09201AB	7750 SR-a Control & Processor Module (CPM) with 6-core 800Mhz CPU and 8GB DRAM.
3HE09202AA	7750 SR-a 100Gbps Input Output Module (IOM-a). Includes License for Layer 3 with High Queuing (L3HQ) Features Set.
3HE09202BA	7750 SR-a 100Gbps Input Output Module (IOM-a). Includes License for Layer 3 with Basic Queuing (L3BQ) Features Set.
3HE09202CA	7750 SR-a 100Gbps Input Output Module (IOM-a). Includes License for Layer 2 with High Queuing (L2HQ) Features Set.
3HE09204AA	10-port 10GE SFP+ MDA-a XP for the 7750 SR-a family. Optics Module must be purchased separately.
3HE09205AA	2-port 10GE SFP+ and 12-port GE SFP Combo MDA-a for the 7750 SR-a family. Optics Module must be purchased separately.
3HE09206AA	20-port 10/100/1000 TX RJ45 MDA-a for the 7750 SR-a family.
3HE09207AA	22-port GE SFP/44-port GE cSFP MDA-a for the 7750 SR-a family. Optics Module must be purchased separately.

3HE09240AA	4-port 10GE SFP+ MDA-a For The 7750 SR-a Family. Optics Module must be purchased separately.
3HE09242AB	DC BNDL - 7750 SR-a4. Non-Redundant Bundle Includes: (1) 3HE09195AA CHAS - 7750 SR-a4 CHASSIS (Including filter), (1) 3HE09197AA FAN - 7750 SRa4 Fan Tray, (1) 3HE09199AA PSU - 7750 SR-a DC -48v, (1) 3HE09201AB CPM - 7750 SR-a CPM 8GB, (4) 3HE09417AA ACC - 7750 SR-a CPM/MDA Impedance Panels, (3) 3HE09419AA ACC - 7750 SR-a PSU Impedance Panels.
3HE09243AB	AC BNDL - 7750 SR-a4. Non-Redundant Bundle Includes: (1) 3HE09195AA CHAS - 7750 SR-a4 CHASSIS (Including filter), (1) 3HE09197AA FAN - 7750 SRa4 Fan Tray, (1) 3HE09200AA PSU - 7750 SR-a AC, (1) 3HE09201AB CPM - 7750 SR-a CPM 8GB, (4) 3HE09417AA ACC - 7750 SR-a CPM/MDA Impedance Panels, (3) 3HE09419AA ACC - 7750 SR-a PSU Impedance Panels.
3HE09244AB	DC BNDL - 7750 SR-a8 Non-Redundant Bundle Includes; (1) 3HE09196AA - CHAS - 7750 SR-a8 CHASSIS (includes filter), (1) 3HE09198AA - FAN - 7750 SRa8 Fan Tray, (2) 3HE09199AA - PSU - 7750 SR-a DC -48V, (1) 3HE09201AB - CPM - 7750 SR-a CPM 8GB, (8) 3HE09417AA - ACC - 7750 SR-a CPM/MDA Impedance Panels, (1) 3HE09418AA - ACC - 7750 SR-a IOM Impedance Panel (2) 3HE09419AA - ACC - 7750 SR-a PSU Impedance Panel
3HE09245AB	AC BNDL - 7750 SR-a8 Non-Redundant Bundle Includes: (1) 3HE09196AA - CHAS - 7750 SR-a8 CHASSIS (includes filter), (1) 3HE09198AA - FAN - 7750 SRa8 Fan Tray, (2) 3HE09200AA - PSU - 7750 SR-a -AC, (1) 3HE09201AB - CPM - 7750 SR-a CPM 8GB, (8) 3HE09417AA - ACC - 7750 SR-a CPM/MDA Impedance Panels, (1) 3HE09418AA - ACC - 7750 SR-a IOM Impedance Panel (2) 3HE09419AA - ACC - 7750 SR-a PSU Impedance Panel
3HE09257AA	7705 SAR-X Air Filter Media replacement kit (10 pack)
3HE09259AA	RTU - SAR-H Network Group Encryption license. Includes maximum supported network group encryption throughput available on one SAR-H node. One (1) OS License is required for each SAR-H in the network. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/ .
3HE09259BA	RTU - SAR-Hc Network Group Encryption license. Includes maximum supported network group encryption throughput available on one SAR-Hc node. One (1) OS License is required for each SAR-Hc in the network. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/ .
3HE09259CA	RTU - SAR-W Network Group Encryption license. Includes maximum supported network group encryption throughput available on one SAR-W node. One (1) OS License is required for each SAR-W in the network. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/ .

3HE09259DA	RTU - SAR-Wx Network Group Encryption license. Includes maximum supported network group encryption throughput available on one SAR-Wx node. One (1) OS License is required for each SAR-Wx in the network.
3HE09259EA	RTU - SAR-8 Network Group Encryption license. Includes maximum supported network group encryption throughput available on one SAR-8 node. One (1) OS License is required for each SAR-8 in the network. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/ . Note: Additional licenses (3HE09302AA, 3HE09302BA, 3HE09302CA) are required to enable hardware encryption on the SAR-8.
3HE09259FA	RTU - SAR-18 Network Group Encryption license. Includes maximum supported network group encryption throughput available on one SAR-18 node. One (1) OS License is required for each SAR-18 in the network. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/ . Note: Additional licenses (3HE09302AA, 3HE09302BA, 3HE09302CA) are required to enable hardware encryption on the SAR-18.
3HE09259GA	RTU - SAR-X Network Group Encryption license. Includes maximum supported network group encryption throughput available on one SAR-X node. One (1) OS License is required for each SAR-X in the network. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/ .
3HE09259HA	RTU - SAR-Ax Network Group Encryption license. Includes maximum supported network group encryption throughput available on one SAR-H node. One (1) OS License is required for each SAR-Ax in the network. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/ .
3HE09259JA	RTU - SAR-Hm/Hmc Network Group Encryption license. Includes maximum supported network group encryption throughput available on one SAR-Hm node. One (1) OS License is required for each SAR-Hm/Hmc in the network.
3HE09259KA	ASL VSR Standard NGE 10Gbps - Application Software License (ASL) is required to enable up to 10Gbps (Full Duplex, for IMIX traffic distribution) of VSR Network Group Encryption (NGE) throughput. One (1) of these ASLs is required for every 10Gbps of NGE traffic required. Multiple instances may be applied to a single VSR to allow the desired throughput.
3HE09260AA	7750 SR SFM5-12 & CPM5, one (1) required per 7750 SR12 slot Shelf, up to two (2) per 7750 SR12 slot Shelf for CPU and fabric redundancy Bundle includes; (1) 3HE08428AA - SFM - 7750 SR SFM5-12 (1) 3HE08423AA - CPM - 7750 SR CPM5

3HE09261AA	7750 SR SFM5-7 & CPM5, one (1) required per 7750 SR7 slot Shelf, up to two (2) per 7750 SR7 slot Shelf for CPU and fabric redundancy Bundle includes; (1) 3HE08429AA - SFM - 7750 SR SFM5-7 (1) 3HE08423AA - CPM - 7750 SR CPM5
3HE09262AA	7450 ESS SFM5-12 & CPM5, one (1) required per 7450 ESS-12 slot Shelf, up to two (2) per 7450 ESS-12 slot Shelf for CPU and fabric redundancy Bundle includes; (1) 3HE08430AA - SFM - 7450 ESS SFM5-12 (1) 3HE08432AA - CPM - 7450 ESS CPM5
3HE09263AA	7450 ESS-7 SFM5-7 & CPM5, one (1) required per 7450 ESS-7 slot Shelf, up to two (2) per 7450 ESS-7slot Shelf for CPU and fabric redundancy Bundle Includes: (1) 3HE08431AA - SFM - 7450 ESS SFM5-7 (1) 3HE08432AA - CPM - 7450 ESS CPM5
3HE09285AA	SROS Software license to enable use of the ISA2 for IPsec Tunneling Applications, this is a per system and per active ISA2 license.
3HE09286AA	SROS Software license to enable use of IPsec Multi-Chassis Redundancy feature. This is a per system and per active ISA2 license. Multiple of these RTUs could be bought to match the total number of ISA2 that need IPsec Multi-Chassis Redundancy support.
3HE09287AA	SROS Enhanced Subscriber Management (ESM) subscriber-host license for up to 256K subscriber-hosts. This is a per system license. Multiple of these RTUs could be bought to match the total number of subscribers targeted to be supported on the chassis.
3HE09288AA	SROS Selective offload with single IP. This is a per system license.
3HE09289AA	SROS WIFI-GW Inter-chass Redundancy. This is a per system license.
3HE09290AA	SROS WIFI Migrant User Support. This is a per system license.
3HE09291AA	SROS WIFI 256K migrant Users. This is a per system license.
3HE09292AA	SROS WIFI 512K migrant Users. This is a per system license.
3HE09293AA	SROS WIFI 1M migrant Users. This is a per system license.
3HE09294AA	SROS WIFI 2M migrant Users. This is a per system license.
3HE09295AA	SROS Distributed Subscriber Management (DSM) base license. This base DSM license is required for using the subscriber management features implemented on MS-ISA on 7750 platforms for IPoE subscribers. This is a per system license.
3HE09296AA	SROS 64K DSM hosts.This is a per system license.
3HE09297AA	SROS 128K DSM hosts. This is a per system license.
3HE09298AA	SROS 256K DSM hosts. This is a per system license.
3HE09299AA	SROS 512K DSM hosts. This is a per system license.
3HE09300AA	SROS 1M DSM hosts. This is a per system license.
3HE09301AA	SROS 2M DSM hosts. This is a per system license.
3HE09302AA	Encryption LICENSE for 3HE06151AC 8 PORT GE SFP CARD V3. One (1) License needed per card performing packet encryption and/or decryption. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/ .

3HE09302BA	Encryption LICENSE for 3HE06153AC 1 PORT 10GE / 10 PORT 1GE 10G-CARD V2. One (1) License needed per card performing packet encryption and/or decryption. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/ .
3HE09302CA	Encryption LICENSE for 3HE07943AA 2P 10GE+4P GE 10G ETH CARD. One (1) License needed per card performing packet encryption and/or decryption. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/ .
3HE09326AA	1-port 10GBASE-SR Small Form-Factor Pluggable+ (SFP+) Optics Module, 850 nm, 26 to 300 meters, LC Connector, RoHS 6/6 compliant, -40/85C
3HE09327AA	1-port 10GBASE-LR Small Form-Factor Pluggable+ (SFP+) Optics Module, Single Mode Fiber (SMF), 10km, 1310 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant, -40/85C
3HE09328AA	1-port 10GBASE-ER Small Form-Factor Pluggable+ (SFP+) Optics Module, Single Mode Fiber (SMF), 40km, 1550 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant, -40/85C
3HE09329AA	1-port 10GBASE-ZR Small Form-Factor Pluggable (SFP+) Optics Module, Single Mode Fiber (SMF), 80km, 1550nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant, -40/85C
3HE09407JA	ASL R21 VSIM Simulator - Application Software License (ASL) supporting the VSIM functionality. One (1) ASL is required for each VSIM system, independent of the number of virtual machines that form the system. The VSIM supports most functionality of all 7x50 router HW and is intended to be used to test new SROS functionality in a release and or to test deployment architectures in a lab setting. The VSIM is intended to be used as a lab tool only and should not be used in a production or customer facing role. The ASL allows a forwarding rate of 250 packets per second per interface. The VSIM product carries limited technical support and software defects should be replicated on a hardware based 7x50 node before a customer defect report can be opened. A unique software license key is required to operate each individual VSIM system. The VSIM license is sold for the specified SROS release and is not covered by any other Nokia software support contract. Licenses for different releases must be purchased separately

3HE09407KA	ASL R22 VSIM Simulator - Application Software License (ASL) supporting the VSIM functionality. One (1) ASL is required for each VSIM system, independent of the number of virtual machines that form the system. The VSIM supports most functionality of all 7x50 router HW and is intended to be used to test new SROS functionality in a release and or to test deployment architectures in a lab setting. The VSIM is intended to be used as a lab tool only and should not be used in a production or customer facing role. The ASL allows a forwarding rate of 250 packets per second per interface. The VSIM product carries limited technical support and software defects should be replicated on a hardware based 7x50 node before a customer defect report can be opened. A unique software license key is required to operate each individual VSIM system. The VSIM license is sold for the specified SROS release and is not covered by any other Nokia software support contract. Licenses for different releases must be purchased separately
3HE09407LA	ASL R23 VSIM Simulator - Application Software License (ASL) supporting the VSIM functionality. One (1) ASL is required for each VSIM system, independent of the number of virtual machines that form the system. The VSIM supports most functionality of all 7x50 router HW and is intended to be used to test new SROS functionality in a release and or to test deployment architectures in a lab setting. The VSIM is intended to be used as a lab tool only and should not be used in a production or customer facing role. The ASL allows a forwarding rate of 250 packets per second per interface. The VSIM product carries limited technical support and software defects should be replicated on a hardware based 7x50 node before a customer defect report can be opened. A unique software license key is required to operate each individual VSIM system. The VSIM license is sold for the specified SROS release and is not covered by any other Nokia software support contract. Licenses for different releases must be purchased separately
3HE09411AA	ETHERNET CABLE WITH RJ.5 AND RJ-45 (6M) for use with 3HE10113AA
3HE09411BA	ETHERNET CABLE WITH RJ.5 AND RJ-45 (20M) for use with 3HE10113AA
3HE09411CA	ETHERNET CABLE WITH RJ.5 AND RJ-45 (50M) for use with 3HE10113AA
3HE09417AA	7750 SR-a Slot Filler/Imperdence Panel for unused CPM or MDA slots.
3HE09418AA	7750 SR-a Slot Filler/Imperdence Panel for unused IOM slots.
3HE09419AA	7750 SR-a Slot Filler/Imperdence Panel for unused PSU slots.
3HE09420AA	7750 SR-a4 Air Filter 5-Pack
3HE09421AA	ACC - 7750 SR-a8 AIR FILTER-5 pack
3HE09425AA	7210 SAS-K 2F2T1C Ethernet system includes: (1) 7210 SAS + AC Power Adapter (No AC power cable included), (2) 10/100/1000 TX + Accepts(2) 1000 SFP + 1 Combo, Does not include 7210 SAS Operating Software
3HE09426AA	7210 SAS-K 2F2T1C Ethernet system Extended Temperature Range includes: (1) 7210 SAS-K Does not include a power supply, (2) 10/100/1000 TX + Accepts(2) 1000 SFP + 1 Combo, Does not include 7210 SAS Operating Software
3HE09431AA	PS 7210 SAS-R AC Power shelf
3HE09432AA	PS 7210 SAS-R AC Power modules
3HE09500AA	1-port 100BASE-FX Small Form-Factor Pluggable (SFP) Optics Module, Multimode Fiber MMF), 2 km, 1310 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant, Extended Temperature -40/85C

3HE09507HA	OS - 7210 SAS-T Release 22.X Base OS. This is a per chassis license, valid for release 22.X. It provides the base OS and includes support for native and MPLS-based Ethernet services (e.g. VPLS and Epipe services). It excludes the use of MPLS-TP and IP services (e.g. VPRNs and IES services). It must also be purchased to upgrade to release 22.X. Includes one (1) programmed 2GB Compact Flash cards with the Operating Software.
3HE09507JA	OS - 7210 SAS-T Release 23.X Base OS. This is a per chassis license, valid for release 23.X. It provides the base OS and includes support for native and MPLS-based Ethernet services (e.g. VPLS and Epipe services). It excludes the use of MPLS-TP and IP services (e.g. VPRNs and IES services). It must also be purchased to upgrade to release 23.X. Includes one (1) programmed Compact Flash cards with the Operating Software.
3HE09548AA	Power Supply Unit (PSU) - 7750 SR-e -48V DC
3HE09549AA	Power Supply Unit (PSU)PSU - 7750 SR-e AC PSU
3HE09551AA	License to upgrade a 3HE09202CA L2HQ IOM-a to a 3HE09202BA L3BQ Feature set.
3HE09552AA	License to upgrade a 3HE09202BA L3BQ IOM-a to a 3HE09202AA L3HQ Feature set.
3HE09553AA	License to upgrade a 3HE09202CA L2HQ IOM-a to a 3HE09202AA L3HQ Feature set.
3HE09569AA	RTU – 7210 SAS-T IP Services License. This is a per chassis license. It enables support of IP services (e.g. VPRN, IES and L3 VPNs using BGP 3107).
3HE09570AA	RTU – 7210 SAS-T MPLS-TP Services License. This is a per chassis license. It enables MPLS-TP based Ethernet services (i.e. Epipe services).
3HE09571AA	RTU – 7210 SAS-T PTP/1588 & Timing Interfaces License. This is a per chassis license. It enables the following Timing interfaces and software – BITS, 1pps, 10MHz, ToD and PTP/1588. NOTE: SyncE is available with the base OS software license and does not require a separate license.
3HE09608AA	ACC - 7750/7705/7210 Vertical Rack Mount 300mm
3HE09609AA	ACC - 7750/7705/7210 Cable Management Tray (Fits the vertical rack mount)
3HE09648AA	7750 SR IOM4-e Baseboard. Accepts up to 2 MDA-e Full Service Routing Functionality, Full Queuing, hierarchical policing, IPv4/IPv6 routing services. Available upgrades/licenses: VPRN

3HE09648BA	7750 SR IOM4-e Baseboard. Accepts up to 2 MDA-e Includes "Layer-3 basic Queuing" IMM Software License/functionality for full IPv4/IPv6 routing services. Limited to 8 ingress and 8 egress queues per port. Does not include Hierarchical Policers. Available upgrades/licenses: VPRN, upgrade to L3HQ
3HE09648CA	7750 SR IOM4-e Baseboard. Accepts up to 2 MDA-e Includes "Layer-2 High Queuing" IMM Software License/functionality for full ESS functionality which includes the use of full queuing and policing with layer-2 services. Excludes use of multicast routing protocol or services, IPv6 routing services, VPRN services (including IPv4 and IPv6 VPNs), network interfaces when installed in a chassis running the above mentioned restricted services. Available upgrades/licenses: upgrade to L3HQ
3HE09649AA	7750 SR 10-port 10GBASE MDA-e. Accepts ten (10) SFP+ 10GBase Optics Modules.
3HE09698AA	A mechanical Rack/Cabinet Mounting Kit for SAR-W and SAR-O. Can be used in 19 inch or 23 inch racks.
3HE09704AA	PS 7210 SAS-R AC Power shelf Impedance Panel 2 pack
3HE09747AA	RTU - SAR-8/18H/Hc/Wx/X Basic Firewall license. One (1) OS License is required for each SAR-8/18/H/Hc/Wx/X in the network. Note: additional hardware firewall RTU is needed for HW performing firewall functionality.
3HE09747BA	Firewall LICENSE for 8 PORT GE SFP CARD (All versions). One (1) License needed per card performing Firewall functionality. Note: additional Basic SW firewall RTU is needed to enable firewall functionality.
3HE09747BB	Hardware Firewall LICENSE for 2 PORT 10GE XFP CARD. One (1) License needed per card performing Firewall functionality. Note: additional Basic SW firewall RTU is needed to enable firewall functionality.
3HE09747BC	Hardware Firewall LICENSE for Packet Microwave CARD. One (1) License needed per card performing Firewall functionality. Note: additional Basic SW firewall RTU is needed to enable firewall functionality.
3HE09747BD	Hardware Firewall LICENSE for 1 PORT 10GE / 10 PORT 1GE 10G-CARD (All versions). One (1) License needed per card performing Firewall functionality. Note: additional Basic SW firewall RTU is needed to enable firewall functionality.
3HE09747BE	Hardware Firewall LICENSE for 6 PORT 10GE CARD (3HE06789AA, 3HE06789BA). One (1) License needed per card performing Firewall functionality. Note: additional Basic SW firewall RTU is needed to enable firewall functionality.
3HE09747CA	Hardware Firewall LICENSE for SAR-H. One (1) License needed per SAR-H performing Firewall functionality. Note: additional Basic SW firewall RTU is needed to enable firewall functionality..
3HE09747CB	Hardware Firewall LICENSE for SAR-Hc. One (1) License needed per SAR-Hc performing Firewall functionality. Note: additional Basic SW firewall RTU is needed to enable firewall functionality.
3HE09747CC	Hardware Firewall LICENSE for SAR-Wx. One (1) License needed per SAR-Wx performing Firewall functionality. Note: additional Basic SW firewall RTU is needed to enable firewall functionality.
3HE09747CD	Hardware Firewall LICENSE for SAR-X. One (1) License needed per SAR-X performing Firewall functionality. Note: additional Basic SW firewall RTU is needed to enable firewall functionality.

3HE09747CE	Hardware Firewall LICENSE for SAR-Ax. One License needed per SAR-Ax performing Firewall functionality. Note: additional Basic SW firewall RTU is needed to enable firewall functionality. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/ .
3HE09749AA	ACC - 7210 SAS-K AC Non-ETR Power Cable - 5 pack - United States / Canada / South America
3HE09749AB	ACC - 7210 SAS-K AC Non-ETR Power Cable - (1) - United States / Canada / South America
3HE09750AA	ACC - 7210 SAS-K AC Non-ETR Power Cable - 5 pack - Continental Europe
3HE09751AA	ACC - 7210 SAS-K AC Non-ETR Power Cable - 5 pack - United Kingdom / Hong Kong /Singapore
3HE09752AA	PS - 7210 SAS-K AC Non-ETR Universal Power Supply - 5 pack Suits 7210 SAS-K 5 port device only
3HE09752AB	PS - 7210 SAS-K AC Non-ETR Universal Power Supply - (1) Suits 7210 SAS-K 5 port device only
3HE09881AA	7750 SR 1-port 100GBASE MDA-e. Accepts one (1) CFP2 100GBase Optic Module.
3HE09904AA	ACC - Dust Cover - CFP2 (x4)
3HE09914AB	ACC - 7210 SAS-K 2F2T1C & 2F4T6C rack mount, fits two side by side 7210 SAS-K5 or a single K12 and their AC power supply in a single RU 19" rack
3HE09915AA	ACC - 7210 SAS-M/Mxp/T 19" rack mount (5 set pack)
3HE09968AA	SROS URL Filter Res 10k Subs - Right to Use (RTU) required for Application Assurance local list URL filtering for residential (ESM or transit-AA) subscribers. One (1) of these RTUs is required for URL filtering for every increment of 10,000 subscribers.s. Multiple instances may be applied to allow the desired scale. Per Network license.
3HE09969AA	SROS URL Filter 10 Gbps - Right to Use (RTU) required for Application Assurance local list URL filtering for aggregate traffic without subscriber context. One (1) of these RTUs is required for URL filtering on every increment of 10 Gbps traffic. Required only if the per-subscriber URL filter RTU is not purchased. Multiple instances may be applied to allow the desired scale. Per Network license.
3HE09976AA	Compact Flash dust cover for the SF/CPM2/3/4 for cf1 & cf2 slots, 10 pack
3HE09977AA	Compact Flash dust cover for the CPM5 10 pack
3HE09978AA	Compact Flash cover for CPM-a 10pkg
3HE09980AA	SROS URL Filter Wifi 10k Subs - Right to Use (RTU) required for Application Assurance local list URL filtering for Wifi DSM subscribers. One (1) of these RTUs is required for URL filtering for every increment of 10,000 subscribers. Multiple instances may be applied to allow the desired scale. Per Network license.
3HE10016AA	RTU - Enable FEC/G.709 support per 6x10GE, 10x10GE or 1x100GE MDA-e
3HE10017AA	RTU AA ICAP Control Res 10k Subs - Right to Use (RTU) required for Application Assurance ICAP session control for residential (ESM and transit-AA) subscribers. One (1) of these RTUs is required for every increment of 10,000 subscribers. Multiple instances may be applied to allow the desired scale. Per Network license.
3HE10018AA	SROS ID and CTL Wifi 10k Subs - Right to Use (RTU) required for Application Assurance traffic identification and control for wifi DSM subscribers. One (1) of these RTUs is required for every increment of 10,000 subscribers. Multiple instances may be applied to a single VSR to allow the desired scale.

3HE10019AA	SROS IBN Wifi 10K Subs - Right to Use (RTU) required for Application Assurance IBN rules for in-browser notification (IBN) for wifi DSM subscribers. One (1) of these RTUs is required for every increment of 10,000 subscribers. Multiple instances may be applied to allow the desired scale. Per Network license.
3HE10020AA	SROS 3M DSM hosts. This is a per system license.
3HE10021AA	SROS 4M DSM hosts. This is a per system license.
3HE10022AA	SROS 5M DSM hosts. This is a per system license.
3HE10023AA	SROS 6M DSM hosts. This is a per system license.
3HE10028AA	ACC - 7210 SAS-K 2F4T6C ETR wall mount, fits one 7210 SAS-K 2F4T6C ETR and its power supplies
3HE10029AA	PS - 7210 SAS-K (5) ETR AC power supply (Can also be used in the 7210 SAS-K Non-ETR)
3HE10030AA	PS - 7210 SAS-K (5) ETR -48V DC power supply (Can also be used in the 7210 SAS-K Non-ETR)
3HE10040AA	Includes a single 6 ft (1.8M) long AC ETR auto-Lock Power Cord (NEMA 5-15P to IEC 320-C13).
3HE10041AA	Includes a single 8.2 ft (2.5M) long AC ETR auto-Lock Power Cord (Schuko CEE 7/7 to IEC 320-C13).
3HE10075AB	SYS - 7210 SAS-Mxp 22F 2C 4SFP+ system includes; 2 GB CPU memory (1) Fan Tray, Accepts (22) 100/1000 SFP + (2) Combo ports + (4) SFP+ Does not include 7210 SAS Operating Software or usage licenses.
3HE10076AB	SYS - 7210 SAS-Mxp 22F 2C 4SFP+ Extended Temperature Range system includes; 2 GB CPU memory, (1) Fan Tray, Accepts(22) 100/1000 SFP + (2) Combo ports + (4) SFP+ Does not include 7210 SAS Operating Software or usage licenses.
3HE10076BB	SYS - 7210 SAS-Mxp 22F 2C 4SFP+ Extended Temperature Range, Conformal Coated system includes; 2 GB CPU memory, (1) Fan Tray, Accepts(22) 100/1000 SFP + (2) Combo ports + (4) SFP+ Does not include 7210 SAS Operating Software or usage licenses. Must be used with Conformal Coated Power Supply to maximize benefit of CC.
3HE10113AA	2-port 10/100/1000BASE-T Compact Small Form-Factor Pluggable (SFP) Copper Module, Cat5, RJ.5 Connector, RoHS 6/6 compliant.
3HE10114AA	ACC 7750 SR-12e AC bezel
3HE10199AA	1-port OC-3/STM-1 SFP ,OC-3/STM-1 TSOP over GE, IR-1 / I-1, Single Mode Fiber (SMF), 15-21km, 1310 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant, Extended Temperature -40/85C
3HE10202AA	1-port OC-12/STM-4 SFP ,OC-12/STM-4 TSOP over GE, IR-1 / I-1, Single Mode Fiber (SMF), 15-21km, 1310 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant, Extended Temperature -40/85C
3HE10212AA	SROS ICAP Control Wifi 10k Subs - Right to Use (RTU) required for Application Assurance ICAP session control for Wifi DSM subscribers. One (1) of these RTUs is required for every increment of 10,000 subscribers. Multiple instances may be applied to allow the desired scale. Per Network license.

3HE10218JA	OS - 7210 SAS-K 2F1C21, Release-22.X Base OS license / Native Ethernet L2 VPNs license. This license is required for both ETR and non-ETR variants. This is a per chassis license valid for release 22.X. It provides the Base OS and includes support for native Ethernet services (e.g. Layer-2 VPLS and Epipe services). It also includes support for syncE and PTP. It must also be purchased for upgrade to release 22.X. It will shipped on a SD Card.
3HE10218KA	OS - 7210 SAS-K 2F1C21, Release-23.X Base OS license / Native Ethernet L2 VPNs license. This license is required for both ETR and non-ETR variants. This is a per chassis license valid for release 23.X. It provides the Base OS and includes support for native Ethernet services (e.g. Layer-2 VPLS and Epipe services). It also includes support for syncE and PTP. It must also be purchased for upgrade to release 23.X. It will shipped on a SD Card.
3HE10219AA	PS - 7210 SAS-K (5) ETR +24V DC power supply (Can also be used in the 7210 SAS-K Non-ETR)
3HE10295AA	ACC - 7750 SR-e CCM-e Impedance Panel Qty 1
3HE10296AA	ACC - 7750 SR-e CPM-e Impedance Panel Qty 1
3HE10297AA	ACC - 7750 SR-e IOM-e Impedance Panel Qty 1
3HE10298AA	ACC - 7750 SR-1e Air Filters (5 pack)
3HE10299AA	ACC - 7750 SR-2e Air Filters (5 pack)
3HE10300AA	ACC - 7750 SR-3e Air Filters (5 pack)
3HE10301AA	7750 SR-1e Chassis Spare. Includes; 7750 SR-1e Chassis & Fan Filter
3HE10302AA	7750 SR-2e Chassis Spare. Includes; 7750 SR-2e Chassis & Fan Filter
3HE10303AA	7750 SR-3e Chassis Spare. Includes; 7750 SR-3e Chassis & Fan Filter
3HE10304AA	FAN - 7750 SR-1e Fan Tray
3HE10305AA	FAN - 7750 SR-2e Fan Tray
3HE10306AA	FAN - 7750 SR-3e Fan Tray
3HE10309AA	CCM - 7750 SR-e CCM-e
3HE10310AA	CPM - 7750 SR-e CPM-e
3HE10311AA	7750 SR IOM-e Baseboard. Full Service Routing Functionality, Full Queuing, hierarchical policing, IPv4/IPv6 routing services. Available upgrades/licenses: VPRN
3HE10311BA	7750 SR IOM-e Baseboard. Includes "Layer-2 High Queuing" IMM Software License/functionality for full ESS functionality which includes the use of full queuing and policing with layer-2 services. Excludes use of multicast routing protocol or services, IPv6 routing services, VPRN services (including IPv4 and IPv6 VPNs), network interfaces when installed in a chassis running the above mentioned restricted services. Available upgrades/licenses: upgrade to L3HO

3HE10311CA	7750 SR IOM-e Baseboard. Includes "Layer-3 basic Queuing" IMM Software License/functionality for full IPv4/IPv6 routing services. Limited to 8 ingress and 8 egress queues per port. Does not include Hierarchical Policers. Available upgrades/licenses: VPRN, upgrade to L3HQ
3HE10312AA	ACC - MDA-e & MDA-e-XP Impedance Panel Qty 1
3HE10329AA	1RU SAR-Ax with redundant DC power feeds (-48V/+24V), 12x1GE (4 RJ45/SFP combo, 8 SFP) ports and an integrated GNSS. It supports built-in Control/Switch functionality. OS and other licenses sold separately.
3HE10338AA	Includes two CPX Modules and one 19 inch 1RU CPX chassis to hold up to 8 CPX modules. The SPD kit is required to meet IEEE1613/IEC61850-3 surge requirements on SAR-18 and SAR-8
3HE10339AA	CPX Defender module designed to fit in the CPX 1 RU Chassis, with 3 mode protection.
3HE10365CA	1-port 10GBASE CWDM Small Form-Factor Pluggable (SFP+) Optics Module, Single Mode Fiber (SMF), 70km, 1471 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant.
3HE10365CB	1-port 10GBASE CWDM Small Form-Factor Pluggable (SFP+) Optics Module, Single Mode Fiber (SMF), 70km, 1491 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant.
3HE10365CC	1-port 10GBASE CWDM Small Form-Factor Pluggable (SFP+) Optics Module, Single Mode Fiber (SMF), 70km, 1511 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant.
3HE10365CD	1-port 10GBASE CWDM Small Form-Factor Pluggable (SFP+) Optics Module, Single Mode Fiber (SMF), 70km, 1531 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant.
3HE10365CE	1-port 10GBASE CWDM Small Form-Factor Pluggable (SFP+) Optics Module, Single Mode Fiber (SMF), 70km, 1551 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant.
3HE10365CF	1-port 10GBASE CWDM Small Form-Factor Pluggable (SFP+) Optics Module, Single Mode Fiber (SMF), 70km, 1571 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant.
3HE10365CG	1-port 10GBASE CWDM Small Form-Factor Pluggable (SFP+) Optics Module, Single Mode Fiber (SMF), 70km, 1591 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant.
3HE10365CH	1-port 10GBASE CWDM Small Form-Factor Pluggable (SFP+) Optics Module, Single Mode Fiber (SMF), 70km, 1611 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant.
3HE10413AF	SYS - 7210 SAS-Mxp 22F 2C 4SFP+ System includes; 2 GB CPU memory (1) 3HE10075AB SYS-7210 SAS-Mxp 22F2C4SFP+ (1) 3HE06336AB 7210 SAS-M/T/Mxp ETR +24V (200W) DC Power Supply Does not include 7210 SAS Operating Software or usage licenses.
3HE10413AG	SYS - 7210 SAS-Mxp 22F 2C 4SFP+ AC system includes; 2 GB CPU memory (1) 3HE10075AB SYS-7210 SAS-Mxp 22F2C4SFP+ (1) 3HE04414AB PS-7210 SAS Mxp/T AC PS (NON-ETR) 200 Watt Does not include 7210 SAS Operating Software or usage licenses.
3HE10413AH	SYS - 7210 SAS-Mxp 22F 2C 4SFP+ DC system includes; 2 GB CPU memory (1) 3HE10075AB SYS-7210 SAS-Mxp 22F2C4SFP+ (1) 3HE04415AB PS-7210 SAS Mxp/T DC -48V PS (NON-ETR) 200W Does not include 7210 SAS Operating Software or usage licenses.

3HE10414AD	SYS - 7210 SAS-Mxp 22F 2C 4SFP+ AC Extended Temperature Range system includes; 2 GB CPU memory (1) 3HE10076AB SYS - 7210 SAS-Mxp 22F2C4SFP+ ETR (1) 3HE05580AB 7210 SAS (200W) AC ETR Power supply <u>Does not include 7210 SAS Operating Software or usage licenses.</u>
3HE10414AE	SYS - 7210 SAS-Mxp 22F 2C 4SFP+ -48V DC Extended Temperature Range system includes; 2 GB CPU memory (1) 3HE10076AB SYS - 7210 SAS-Mxp 22F2C4SFP+ ETR (1) 3HE05581AB 7210 SAS -48V (200W) DC ETR Power supply <u>Does not include 7210 SAS Operating Software or usage licenses.</u>
3HE10414AF	SYS - 7210 SAS-Mxp 22F 2C 4SFP+ +24V DC Extended Temperature Range system includes; 2 GB CPU memory (1) 3HE10076AB SYS - 7210 SAS-Mxp 22F2C4SFP+ ETR (1) 3HE06336AB 7210 SAS +24V (200W) DC Power supply, <u>Does not include 7210 SAS Operating Software or usage licenses.</u>
3HE10415AG	SYS - 7210 SAS-Mxp 22F 2C 4SFP+ AC system includes; 2 GB CPU memory. With NAR AC Cable (1) 3HE10075AB SYS-7210 SAS-Mxp 22F2C4SFP+ (1) 3HE04414AB PS-7210 SAS Mxp/T AC PS (NON-ETR) 200 Watt (1) 3HE00271AA CBL - AC PWR CBL 110V USA <u>Does not include 7210 SAS Operating Software or usage licenses.</u>
3HE10415AH	SYS - 7210 SAS-Mxp 22F 2C 4SFP+ AC system includes; 2 GB CPU memory. With UK AC Cable (1) 3HE10075AB SYS-7210 SAS-Mxp 22F2C4SFP+ (1) 3HE04414AB PS-7210 SAS Mxp/T AC PS (NON-ETR) 200 Watt (1) 3HE00271AD CBL - AC PWR CBL 110V UK <u>Does not include 7210 SAS Operating Software or usage licenses.</u>
3HE10415AJ	SYS - 7210 SAS-Mxp 22F 2C 4SFP+ AC system includes; 2 GB CPU memory. With EUR AC Cable (1) 3HE10075AB SYS-7210 SAS-Mxp 22F2C4SFP+ (1) 3HE04414AB PS-7210 SAS Mxp/T AC PS (NON-ETR) 200 Watt (1) 3HE00271AC CBL - AC PWR CBL 110V EUR <u>Does not include 7210 SAS Operating Software or usage licenses.</u>
3HE10416AD	SYS - 7210 SAS-Mxp 22F 2C 4SFP+ AC Extended Temperature Range system includes; 2 GB CPU memory w NAR Power cord (1) 3HE10076AB SYS - 7210 SAS-Mxp 22F2C4SFP+ ETR (1) 3HE05580AB 7210 SAS (200W) AC Power supply, (1) 3HE00271AA CBL - AC PWR CBL 110V USA <u>Does not include 7210 SAS Operating Software or usage licenses.</u>
3HE10416AE	SYS - 7210 SAS-Mxp 22F 2C 4SFP+ AC Extended Temperature Range system includes; 2 GB CPU memory w UK Power cord (1) 3HE10076AB SYS - 7210 SAS-Mxp 22F2C4SFP+ ETR (1) 3HE05580AB 7210 SAS (200W) AC Power supply (1) 3HE00271AD CBL - AC PWR CBL 110V UK <u>Does not include 7210 SAS Operating Software or usage licenses.</u>
3HE10416AF	SYS - 7210 SAS-Mxp 22F 2C 4SFP+ AC Extended Temperature Range system includes; 2 GB CPU memory w UK Power cord (1) 3HE10076AB SYS - 7210 SAS-Mxp 22F2C4SFP+ ETR (1) 3HE05580AB 7210 SAS (200W) AC Power supply (1) 3HE00271AC CBL - AC PWR CBL 110V EUR <u>Does not include 7210 SAS Operating Software or usage licenses.</u>

3HE10417GA	OS - 7210 SAS-Mxp Release 22.X Base OS license, Standalone mode. This is a per chassis license, valid for release 22.X. It provides the base OS and includes support for native and MPLS-based Ethernet services (e.g. VPLS and Epipe services). It excludes the use of IP services (e.g. VPRNs and IES services). It is required to operate 7210 SAS-Mxp ETR and non-ETR chassis, in standalone mode. It excludes the use satellite mode of operation. It must also be purchased for upgrade to release 22.X. Includes one (1) programmed 2GB Compact Flash cards with the Operating Software.
3HE10417HA	OS - 7210 SAS-Mxp Release 23.X Base OS license, Standalone mode. This is a per chassis license, valid for release 23.X. It provides the base OS and includes support for native and MPLS-based Ethernet services (e.g. VPLS and Epipe services). It excludes the use of IP services (e.g. VPRNs and IES services). It is required to operate 7210 SAS-Mxp ETR and non-ETR chassis, in standalone mode. It excludes the use satellite mode of operation. It must also be purchased for upgrade to release 23.X. Includes one (1) programmed Compact Flash card with the Operating Software.
3HE10418AA	RTU – 7210 SAS-Mxp IP Services License. This is a per chassis license. It enables support of IP services (e.g. VPRN, IES and L3 VPNs using BGP 3107).
3HE10420AA	RTU – 7210 SAS-Mxp PTP/1588 & Timing Interfaces License. This is a per chassis license. It enables the following Timing interfaces and software – BITS, 1pps, 10MHz, ToD and PTP/1588. NOTE: SyncE is available with the base OS software license and does not require a separate license.
3HE10421AA	1-port 100GE CFP2 MDA-a XP for the 7750 SR-a family. Optics Module must be purchased separately.
3HE10427AA	Multi-Service Integrated Services Module-2 which could be used for AA, LNS, NAT
3HE10428AA	Multi-Service Integrated Services Module-2 which could be used for AA, BB, LNS, NAT (no Encryption)
3HE10429AA	7750 SR 6-port 10GBASE MDA-e. Accepts six (6) SFP+ 10GBase Optics Modules.
3HE10447AA	Includes a single 8.2 ft (2.5M) long PSE certified auto-locking Japanese AC power cord ,12A/125V with (JIS 8303 plug to IEC320-C13).
3HE10452AA	1-port 10GBASE-BX40-U (Up-Stream) Bi-Directional (BiDi) Small Form-Factor Pluggable (SFP+) Optics Module, Single Mode Fiber (SMF), 40km, TX: 1270nm, RX: 1330nm; LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant, Extended Temperature -40/85C
3HE10452AB	1-port 10GBASE-BX40-U (Up-Stream) Bi-Directional (BiDi) Small Form-Factor Pluggable (SFP+) Optics Module, Single Mode Fiber (SMF), 40km, TX:1330 nm, RX: 1270 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant, Extended Temperature -40/85C

3HE10468AA	7750 SR-1e Chassis DC PSU starter bundle. Bundle Includes: (2) 3HE09419AA - ACC - 7750 SR-a PSU Impedance Panel (2) 3HE09548AA - PSU - 7750 SR-e -48V DC PSU (1) 3HE10295AA - ACC - 7750 SR-e CCM Impedance Panel (1) 3HE10296AA - ACC - 7750 SR-e CPM Impedance Panel (1) 3HE10301AA - CHAS - 7750 SR-1e Chassis Spare (1) 3HE10304AA - FAN - 7750 SR-1e Fan Tray (1) 3HE10309AA - CCM - 7750 SR-e CCM-e (1) 3HE10310AA - CPM - 7750 SR-e CPM-e ~~(3) 3HE10312AA - ACC - Impedance PNL MDA-e MDA-e-XP~~
3HE10469AA	7750 SR-1e AC PSU starter bundle Bundle includes; (2) 3HE09419AA ACC - 7750 SR-a PSU Impedance Panel (2) 3HE09549AA PSU - 7750 SR-e AC PSU (1) 3HE10295AA ACC - 7750 SR-e CCM Impedance Panel (1) 3HE10296AA ACC - 7750 SR-e CPM Impedance Panel (1) 3HE10301AA CHAS - 7750 SR-1e Chassis Spare (1) 3HE10304AA FAN - 7750 SR-1e Fan Tray (1) 3HE10309AA CCM - 7750 SR-e CCM-e (1) 3HE10310AA CPM - 7750 SR-e CPM-e ~~(3) 3HE10312AA ACC - Impedance PNL MDA-e MDA-e-XP~~
3HE10470AA	7750 SR-2e Chassis DC PSU starter bundle. Bundle Includes: (6) 3HE09419AA ACC - 7750 SR-a PSU Impedance Panel (2) 3HE09548AA PSU - 7750 SR-e -48V DC PSU (1) 3HE10295AA ACC - 7750 SR-e CCM Impedance Panel (1) 3HE10296AA ACC - 7750 SR-e CPM Impedance Panel (1) 3HE10297AA ACC - 7750 SR-e IOM Impedance Panel (1) 3HE10302AA CHAS - 7750 SR-2e Chassis Spare (1) 3HE10305AA FAN - 7750 SR-2e Fan Tray (1) 3HE10309AA CCM - 7750 SR-e CCM-e (1) 3HE10310AA CPM - 7750 SR-e CPM-e ~~(7) 3HE10312AA ACC - Impedance PNL MDA-e MDA-e-XP~~
3HE10471AA	7750 SR-2e AC PSU starter bundle Bundle includes; (6) 3HE09419AA ACC - 7750 SR-a PSU Impedance Panel (2) 3HE09549AA PSU - 7750 SR-e AC PSU (1) 3HE10295AA ACC - 7750 SR-e CCM Impedance Panel (1) 3HE10296AA ACC - 7750 SR-e CPM Impedance Panel (1) 3HE10297AA ACC - 7750 SR-e IOM Impedance Panel (1) 3HE10302AA CHAS - 7750 SR-2e Chassis Spare (1) 3HE10305AA FAN - 7750 SR-2e Fan Tray (1) 3HE10309AA CCM - 7750 SR-e CCM-e (1) 3HE10310AA CPM - 7750 SR-e CPM-e (7) 3HE10312AA ACC - Impedance PNL MDA-e MDA-e-XP

3HE10472AA	7750 SR-3e Chassis DC PSU starter bundle. Bundle Includes: (5) 3HE09419AA ACC - 7750 SR-a PSU Impedance Panel (3) 3HE09548AA PSU - 7750 SR-e -48V DC PSU (1) 3HE10295AA ACC - 7750 SR-e CCM Impedance Panel (1) 3HE10296AA ACC - 7750 SR-e CPM Impedance Panel (2) 3HE10297AA ACC - 7750 SR-e IOM Impedance Panel (1) 3HE10303AA CHAS - 7750 SR-3e Chassis Spare (1) 3HE10306AA FAN - 7750 SR-3e Fan Tray (1) 3HE10309AA CCM - 7750 SR-e CCM-e (1) 3HE10310AA CPM - 7750 SR-e CPM-e ~~(1) 3HE10312AA ACC - Impedance PNL MDA-e MDA-e-XP~~
3HE10473AA	7750 SR-3e AC PSU starter bundle Bundle includes; (5) 3HE09419AA ACC - 7750 SR-a PSU Impedance Panel (3) 3HE09549AA PSU - 7750 SR-e AC PSU (1) 3HE10295AA ACC - 7750 SR-e CCM Impedance Panel (1) 3HE10296AA ACC - 7750 SR-e CPM Impedance Panel (2) 3HE10297AA ACC - 7750 SR-e IOM Impedance Panel (1) 3HE10303AA CHAS - 7750 SR-3e Chassis Spare (1) 3HE10306AA FAN - 7750 SR-3e Fan Tray (1) 3HE10309AA CCM - 7750 SR-e CCM-e (1) 3HE10310AA CPM - 7750 SR-e CPM-e ~~(1) 3HE10312AA ACC - Impedance PNL MDA-e MDA-e-XP~~
3HE10475AA	ACC 7750 SR-12e 80A breakers (x16)
3HE10492AB	SYS - 7210 SAS-Sx 46F 2C 4SFP+ system includes; (1) Fixed Fans, (2) Hot swappable power supply slots, (2) Replaceable Air Filters, Accepts(46) 100/1000 SFP + 2 Combo + (4) SFP+. Supports stacking. Does not include power supplies. Does not include 7210 SAS Operating Software or usage licenses.
3HE10493AB	SYS - 7210 SAS-Sx 22F 2C 4SFP+ system includes; (1) Fixed Fans, (2) Hot swappable power supply slots, (2) Replaceable Air Filters, Accepts (22) 100/1000 SFP + 2 Combo + (4) SFP+. Supports stacking. Does not include power supplies. Does not include 7210 SAS Operating Software or usage licenses.
3HE10494AB	SYS - 7210 SAS-Sx 48T 4SFP+ system includes; (1) Fixed Fans, (2) Hot swappable power supply slots, (2) Replaceable Air Filters, (48) 10/100/1000 TX (4) SFP+) Non-PoE. Supports stacking. Does not include power supplies. Does not include 7210 SAS Operating Software or usage licenses.
3HE10495AB	SYS - 7210 SAS-Sx 24T 4SFP+ system includes; (1) Fixed Fans, (2) Hot swappable power supply slots, (2) Replaceable Air Filters, (24) 10/100/1000 TX (4) SFP+) Non-PoE. Supports stacking. Does not include power supplies. Does not include 7210 SAS Operating Software or usage licenses.
3HE10496AB	SYS - 7210 SAS-Sx 48Tp 4SFP+ system includes; (1) Fixed Fans, (2) Hot swappable power supply slots, (2) Replaceable Air Filters, (48) 10/100/1000 TX (4) SFP+) 720W PoE capability. Supports stacking. Does not include power supplies. Does not include 7210 SAS Operating Software or usage licenses.

3HE10497AB	'SYS - 7210 SAS-Sx 24Tp 4SFP+ system includes; (1) Fixed Fans, (2) Hot swappable power supply slots, (2) Replaceable Air Filters, (24) 10/100/1000 TX (4) SFP+) 720W PoE Capability. Supports stacking. Does not include power supplies. ~~Does not include 7210 SAS Operating Software or usage licenses.~~
3HE10498AA	PS – 7210 SAS-Sx Power Supply (fits fiber 1/10G Sx units only) AC 400W
3HE10499AA	PS – 7210 SAS-Sx Power Supply (fits fiber 1/10G Sx units only) DC -48V 400W
3HE10500AA	PS - 7210 SAS-Sx Power Supply (Fits Copper 1/10G Sx units only) AC
3HE10501AA	PS - 7210 SAS-Sx Power Supply (Fits Copper 1/10G Sx units only) DC -48V
3HE10502AA	PS - 7210 SAS-Sx Power Supply PoE (Fits Copper PoE 1/10G Sx units only) AC 920W
3HE10503AA	ACC - 7210 SAS-Sx Fan Tray Filter (10) for 3HE10492AB SYS - 7210 SAS-Sx 46F2C4SFP+ 3HE10493AB SYS - 7210 SAS-Sx 22F2C4SFP+
3HE10530AB	SYS - 7210 SAS-S 48F4SFP+ system includes; (1) Fixed Fans, (1) Fixed AC Power supply, (1) Hot swappable power supply slot, No Air Filters, Accepts (48) 100/1000 SFP (4) SFP+. ~~Does not include 7210 SAS Operating Software or usage licenses.~~
3HE10531AB	SYS - 7210 SAS-S 48F4SFP+ system includes; (1) Fixed Fans, (1) Fixed DC -48V Power supply, (1) Hot swappable power supply slot, No Air Filters, Accepts (48) 100/1000 SFP (4) SFP+. ~~Does not include 7210 SAS Operating Software or usage licenses.~~
3HE10532AB	SYS - 7210 SAS-S 24F4SFP+ system includes; (1) Fixed Fans, (1) Fixed AC Power supply, (1) Hot swappable power supply slot, No Air Filters, Accepts (24) 100/1000 SFP (4) SFP+. ~~Does not include 7210 SAS Operating Software or usage licenses.~~
3HE10533AB	SYS - 7210 SAS-S 24F4SFP+ system includes; (1) Fixed Fans, (1) Fixed DC -48V Power supply, (1) Hot swappable power supply slot, No Air Filters, Accepts (24) 100/1000 SFP (4) SFP+. ~~Does not include 7210 SAS Operating Software or usage licenses.~~

3HE10534AB	SYS - 7210 SAS-S 48T4SFP+ system includes; (1) Fixed Fans, (1) Fixed AC Power supply, (1) Hot swappable power supply slot, No Air Filters, Accepts (48) 10/100/1000 TX (4) SFP+. ~~Does not include 7210 SAS Operating Software or usage licenses.~~
3HE10535AB	SYS - 7210 SAS-S 48T4SFP+ system includes; (1) Fixed Fans, (1) Fixed DC -48V Power supply, (1) Hot swappable power supply slot, No Air Filters, Accepts (48) 10/100/1000 TX (4) SFP+. ~~Does not include 7210 SAS Operating Software or usage licenses.~~
3HE10536AB	SYS - 7210 SAS-S 24T4SFP+ system includes; (1) Fixed Fans, (1) Fixed AC Power supply, (1) Hot swappable power supply slot, No Air Filters, Accepts (24) 10/100/1000 TX (4) SFP+. ~~Does not include 7210 SAS Operating Software or usage licenses.~~
3HE10537AB	SYS - 7210 SAS-S 24T4SFP+ system includes; (1) Fixed Fans, (1) Fixed DC -48V Power supply, (1) Hot swappable power supply slot, No Air Filters, Accepts (24) 10/100/1000 TX (4) SFP+. ~~Does not include 7210 SAS Operating Software or usage licenses.~~
3HE10538AB	SYS - 7210 SAS-S 48T4SFP+ PoE AC system includes; (1) Fixed Fans, (1) Fixed AC Power supply, (1) Hot swappable power supply slot, No Air Filters, Accepts (48) 10/100/1000 TX (4) SFP+. ~~Requires a C15 compliant Power cable~~
3HE10540AB	SYS - 7210 SAS-S 24T4SFP+ PoE AC system includes; (1) Fixed Fans, (1) Fixed AC Power supply, (1) Hot swappable power supply slot, No Air Filters, Accepts (24) 10/100/1000 TX (4) SFP+ ~~Requires a C15 compliant Power cable~~

3HE10542AA	PS - 7210 SAS-S Power Supply AC (Fits Fiber & Copper 1/10G NON-PoE "S" units)
3HE10543AA	PS - 7210 SAS-S Power Supply DC -48V (Fits Fiber & Copper 1/10G NON-PoE "S" units)
3HE10544AA	PS - 7210 SAS-S Power Supply AC 1050W (Fits Copper PoE "S" units). Requires a C15 compliant Power cable
3HE10550AA	1-port 100GBase LR4 QSFP28 Optics Module, 10km, LC Connector, RoHS 6/6 compliant, Digital Diagnostic Monitor (DDM), 0/70C
3HE10551AA	1-port 100GBase SR4 or 4-port 25G SR QSFP28 Optics Module, 100m, MMF, MPO Connector, RoHS 6/6 compliant, Digital Diagnostic Monitor (DDM), 0/70C
3HE10552AA	1-port 100GBase CWDM4 QSFP28 Optics Module, 2km, LC Connector, RoHS 6/6 compliant, Digital Diagnostic Monitor (DDM), 0/70C
3HE10581AA	IMM - 7210 SAS-R-c 100GE QSFP28
3HE10640AA	SROS GMPLS-UNI Right To Use License. A per system license. Allows the use of the GMPLS-UNI functionality.
3HE10641AA	SROS Advanced Data Center Gateway (DC GW) and Service Chaining Right To Use License. A per system license. Allows the use of advanced DC GW and service chaining and steering functions, subject to platform feature limitations and support, such as: Fully Dynamic VSD Integration for Nuage driven service creation, use of a BGP EVPN control plane for L2/L3 service chaining and steering, Ethernet Segment Identifier (ESI) traffic steering using filter policies (including L3 ESM subscriber downstream traffic steering) and other related functions.
3HE10642AA	7750 SR 20 port SFP, 40port cSFP GE MDA-e, Accepts twenty (20) cSFP/SFP 1000Base Optics Modules.
3HE10717AA	7750 SR IOM4-e-B Baseboard. Accepts up to 2 MDA-e Full Service Routing Functionality, Full Queuing, hierarchical policing, IPv4/IPv6 routing services. Available upgrades/licenses: VPRN
3HE10717BA	7750 SR IOM4-e-B Baseboard. Accepts up to 2 MDA-e Includes "Layer-3 basic Queuing" IMM Software License/functionality for full IPv4/IPv6 routing services. Limited to 8 ingress and 8 egress queues per port. Does not include Hierarchical Policers. Available upgrades/licenses: VPRN, upgrade to L3HQ
3HE10717CA	7750 SR IOM4-e-B Baseboard. Accepts up to 2 MDA-e Includes "Layer-2 High Queuing" IMM Software License/functionality for full ESS functionality which includes the use of full queuing and policing with layer-2 services. Excludes use of multicast routing protocol or services, IPv6 routing services, VPRN services (including IPv4 and IPv6 VPNs), network interfaces when installed in a chassis running the above mentioned restricted services. Available upgrades/licenses: upgrade to L3HQ
3HE10757GA	OS - 7210 SAS-D Release 22.X (or upgrade to rel 22.X).
3HE10757HA	OS - 7210 SAS-D Release 23.X (or upgrade to rel 23.X).
3HE10766AA	7750 SR-7-B Chassis Spare. Includes; 7750 SR-7-B Chassis & Fan Filter. (5) impedance panels are included within the 3HE10766AA - CHAS - 7750 SR-7-B CHASSIS SPARE RoHS6/6
3HE10768AA	7750 SR-12-B Chassis Spare. Includes; 7750 SR-12-B Chassis & Fan Filter. (10) impedance panels and cable management tray included

3HE10836AA	PS - 7210 SAS-Sx 64SFP+4QSFP28 Non ETR AC
3HE10837AA	PS - 210 WBX, 7210 Sx 100G -48VDC (FtoB) supports also: 3HE15622AA SYS - 7220 IXR-D2 48SFP28 8QSFP28 3HE15623AA SYS - 7220 IXR-D3 32QSFP28 2SFP+
3HE10852AA	7750 SR-7-B Chassis bundle includes the following: (1) 3HE03661AA - PEM - 7750 SR-7 100A DC PEM-3 SLOT 2 (1) 3HE03662AA - PEM - 7750 SR-7 100A DC PEM-3 SLOT 1 (2) 3HE04498AA - PWR FLT - 7750 SR-7 100 AMP PWR FILTER (1) 3HE05180AA - FAN - 7750 SR-7 Enhanced Fan Tray (1) 3HE10766AA - CHAS - 7750 SR-7-B CHASSIS SPARE RoHS6/6 Note: (1) 3HE04148AA - 7750 SR Impedance Panels (5 pkg) are part of the ~~3HE10766AA - CHAS - 7750 SR-7-B CHASSIS SPARE RoHS6/6~~
3HE10854AA	7750 SR-12-B Chassis bundle includes the following: (2) 3HE03663AA - PEM - 7750 SR-12 175A DC PEM-3 (3) 3HE05106AA - FAN - 7750 SR-12 ENHANCED FAN TRAY (1) 3HE10768AA - CHAS - 7750 SR-12-B CHASSIS SPARE RoHS6/6 Note: (10) impedance panels and cable management tray included with the ~~3HE10768AA - CHAS - 7750 SR-12-B CHASSIS SPARE RoHS6/6~~
3HE10866GA	OS - 7210 SAS-Sx and 7210 SAS-S, 1GE/10GE variant, Release 22.X Base OS License / Native and MPLS Ethernet L2 VPNs License, Standalone Mode. This is a per chassis license, valid for release 22.X. It provides the Base OS and includes support for native and MPLS-based Ethernet services (e.g. Layer-2 VPLS and Epipe services) for operating the chassis in standalone mode. It also includes support for syncE and PTP. It excludes the use IP services (e.g. VPRNs and IES services). In a stacked/VC configuration, it must be purchased for every node in the stack/VC. It must also be purchased for upgrade to release 22.X. It will shipped on a SD Card.
3HE10866HA	OS - 7210 SAS-Sx and 7210 SAS-S, 1GE/10GE variant, Release 23.X Base OS License / Native and MPLS Ethernet L2 VPNs License, Standalone Mode. This is a per chassis license, valid for release 23.X. It provides the Base OS and includes support for native and MPLS-based Ethernet services (e.g. Layer-2 VPLS and Epipe services) for operating the chassis in standalone mode. It also includes support for syncE and PTP. It excludes the use IP services (e.g. VPRNs and IES services). In a stacked/VC configuration, it must be purchased for every node in the stack/VC. It must also be purchased for upgrade to release 23.X. It will shipped on a SD Card.

3HE10867AA	RTU - 7210 SAS-Sx and 7210 SAS-S IP services License, 1GE variant, Standalone Mode. This is a per chassis license. It is a one-time license to enable IP services on the node. It enables support of IP services (e.g. VPRN, IES and L3 VPNs using BGP 3107). In a stacked/VC configuration this license must be purchased for every node in the stack/VC
3HE10869GA	OS - 7210 SAS-Sx and 7210 SAS-S, 1GE/10GE variant, Release 22.X Base OS License, Satellite Mode. This is a per chassis license for release 22.X. It allows for operating the chassis in satellite mode. It excludes the use standalone mode of operation and use of stacking/VC configuration. It must also be purchased for upgrade to release 22.X. ~~It will be shipped on a SD card~~
3HE10869HA	OS - 7210 SAS-Sx and 7210 SAS-S, 1GE/10GE variant, Release 23.X Base OS License, Satellite Mode. This is a per chassis license for release 23.X. It allows for operating the chassis in satellite mode. It excludes the use standalone mode of operation and use of stacking/VC configuration. It must also be purchased for upgrade to release 23.X. It will be shipped on a SD card
3HE10877AA	SROS UPnP IGD License - A per system license for UPnP IGD function on BB-ISA
3HE10878AA	SROS vRGW BRG authentication License – A per system license for BRG authentication on vRGW
3HE10937AA	Kit contains two spare adapter brackets and fastener hardware to secure the 7750 SR-a4 chassis to an ETSI rack.
3HE10958AA	SROS IEEE1588 Precision Time Protocol Right To Use License. A per system license. Allows the use of IEEE1588 PTP support including Ordinary Clock-Master, Ordinary Clock-Slave, Boundary clock and 1588 Port Based Timestamping
3HE10959AA	7210 SAS-K 2F4T6C Ethernet system includes: (1) 7210 SAS + AC Power Adapter (No AC power cable included), (4) 10/100/1000 TX + Accepts(2) 1000 SFP + 6 Combo, Does not include 7210 SAS Operating Software
3HE10960AA	7210 SAS-K 2F4T6C Ethernet system Extended Temperature Range includes: (4) 10/100/1000 TX + Accepts (2) 1000 SFP + 6 Combo, Does not include power supplies, does not include 7210 SAS Operating Software
3HE10962AA	PS - 7210 SAS-K 2F4T6C Non-ETR AC, includes AC power supply. Suits 12 port device only.
3HE10963AA	PS - 7210 SAS-K 2F4T6C Non-ETR -48V DC Suits 12 port device only
3HE10964AA	PS - 7210 SAS-K 2F4T6C ETR AC Suits 12 port device ETR and 7210 SAS-Dxp ETR
3HE10965AA	PS - 7210 SAS-K 2F4T6C ETR -48V DC Suits 12 port device ETR and 7210 SAS-Dxp ETR

3HE10966AA	PS - 7210 SAS-K 2F4T6C ETR +24V DC Suits 12 port device ETR only
3HE11031AA	7750 SR 2-ports 40/100GBASE MDA-e. Accepts two (2) QSFP+/QSFP28 100GBase Optic Module.
3HE11035AA	GNSS antenna for global GNSS timing reference featuring 26 dB low noise, high gain amplifier with a nominal impedance of 50 Ohms and uses a N-Type Female Connector and supports a Temp Range of -40C to +85C. Includes mounting collar.
3HE11035AB	GNSS antenna for global GNSS timing reference featuring 40 dB low noise, high gain amplifier with a Nominal impedance of 50 Ohms and uses a N-Type Female Connector and supports a Temp Range of -40C to +85C. Includes mounting collar
3HE11036AA	GPS timing reference antenna featuring 26 dB amplifier and narrow band high rejection filtering. Antenna has a Nominal impedance of 50 Ohms and uses a N-Type Female Connector and supports a Temp Range of -40C to +85C Includes mounting collar
3HE11036AB	GPS timing reference antenna featuring 40 dB amplifier and narrow band high rejection filtering. Antenna has a Nominal impedance of 50 Ohms and uses a N-Type Female Connector and supports a Temp Range of -40C to +85C. Includes mounting collar
3HE11116JA	ASL R21 VSR Integrate System Base - Application Software License required to create a single integrated system VSR instance. One of these ASLs is required for each instance of VSR integrated system and supports a single VM with both control plane and data plane. Additional ASLs will be required to add bandwidth capacity, services and value added services such as AA, SEGW, BNG, WLGW & NAT.
3HE11116KA	ASL R22 VSR Integrate System Base - Application Software License required to create a single integrated system VSR instance. One of these ASLs is required for each instance of VSR integrated system and supports a single VM with both control plane and data plane. Additional ASLs will be required to add bandwidth capacity, services and value added services such as AA, SEGW, BNG, WLGW & NAT.
3HE11116LA	ASL R23 VSR Integrate System Base - Application Software License required to create a single integrated system VSR instance. One of these ASLs is required for each instance of VSR integrated system and supports a single VM with both control plane and data plane. Additional ASLs will be required to add bandwidth capacity, services and value added services such as AA, SEGW, BNG, WLGW & NAT.
3HE11117AA	ASL VSR 10Gbps BW w Standard QoS - Application Software License (ASL) is required to enable up to 10Gbps (Half Duplex / ingress traffic, for IMIX traffic distribution) of incremental VSR throughput. One (1) of these ASLs is required for every increment of 10Gbps of vNIC bandwidth throughput on a VSR system supporting standard QoS functionality. Standard QoS functionality is restricted to queuing and policing, with a maximum of 8 queues or policers per vNIC port. Multiple ASLs may be applied to a single VSR instance to allow the desired bandwidth scale. All bandwidth ASLs applied to a single system must be of the same type (standard or Advanced).

3HE11118AA	ASL VSR 10Gbps BW w Advanced QoS - Application Software License (ASL) is required to enable up to 10Gbps (Half Duplex / ingress traffic, for IMIX traffic distribution) of VSR incremental throughput. One (1) of these ASLs is required for every increment of 10Gbps of vNIC bandwidth throughput on a VSR system supporting Advanced QoS functionality. Advanced QoS functionality enables queuing, shaping and policing per SAP or subscriber. Multiple ASLs may be applied to a single VSR instance to allow the desired bandwidth scale. All bandwidth ASLs applied to a single system must be of the same type (Standard or Advanced).
3HE11119AA	ASL VSR 1Gbps BW Standard QoS - Application Software License (ASL) is required to enable up to 1 Gbps (Half Duplex / ingress traffic, for IMIX traffic distribution) of incremental VSR throughput. One (1) of these ASLs is required for every increment of 1 Gbps of vNIC bandwidth throughput on a VSR system supporting standard QoS functionality. Standard QoS functionality is restricted to queuing and policing, with a maximum of 8 queues or policers per vNIC port. Multiple ASLs may be applied to a single VSR instance to allow the desired bandwidth scale. All bandwidth ASLs applied to a single system must be of the same type (standard or Advanced).
3HE11120AA	ASL VSR 1Gbps BW w Advanced QoS - Application Software License (ASL) is required to enable up to 1 Gbps (Half Duplex / ingress traffic, for IMIX traffic distribution) of VSR incremental throughput. One (1) of these ASLs is required for every increment of 1 Gbps of vNIC bandwidth throughput on a VSR system supporting Advanced QoS functionality. Advanced QoS functionality enables queuing, shaping and policing per SAP or subscriber. Multiple ASLs may be applied to a single VSR instance to allow the desired bandwidth scale. All bandwidth ASLs applied to a single system must be of the same type (Standard or Advanced).
3HE11121AA	ASL VSR VPN Service 500 instances - Application Software License (ASL) is required to enable support for VPN service within a VSR instance. One (1) of these ASLs allows for up to 500 VPN instances, including VPRN, VPLS and VLL services. Multiple ASLs may be applied to a single VSR instance to allow the desired service scale.
3HE11122AA	ASL VSR VPN Service 100 instances - Application Software License (ASL) is required to enable support for VPN service within a VSR instance. One (1) of these ASLs allows for up to 100 VPN instances, including VPRN, VPLS and VLL services. Multiple ASLs may be applied to a single VSR instance to allow the desired service scale.
3HE11123AA	ASL VSR VPN Service 25 instances - Application Software License (ASL) is required to enable support for VPN service within a VSR instance. One (1) of these ASLs allows for up to 25 VPN instances, including VPRN, VPLS and VLL services. Multiple ASLs may be applied to a single VSR instance to allow the desired service scale.
3HE11124AA	ASL VSR IP-Tunnel 1k Tunnels - Application Software License is required to enable IP tunnel scale in increments of 1,000 - One (1) license is required for 1,000 IP tunnels per VSR. Multiple ASLs may be applied to a single VSR instance to allow the required tunnel scale.
3HE11125AA	ASL VSR IP-Tunnel 100 Tunnels - Application Software License is required to enable IP tunnel scale in increments of 100 - One (1) license is required for 100 IP tunnels per VSR. Multiple ASLs may be applied to a single VSR instance to allow the required tunnel scale.

3HE11126AA	ASL VSR Lawful Intercept (LI) - Application Software License (ASL) is required to enable the lawful intercept feature. One (1) license is required per VSR.
3HE11127AA	ASL VSR ADV DC GW and Svc Chain - Application Software License (ASL) is required to enable Advanced Data Center Gateway (DC GW) and Service Chaining., subject to platform feature limitations and support, such as use of a BGP EVPN control plane for L2/L3 service chaining and steering, Ethernet Segment Identifier (ESI) traffic steering using filter policies (including L3 ESM subscriber downstream traffic steering) and other related functions. One (1) license is required per VSR.
3HE11128AA	ASL VSR Hybrid OpenFlow Switch - Application Software License (ASL) is required to enable the Hybrid OpenFlow Switch feature, subject to limitations imposed by the particular SR OS release. One (1) license is required per VSR.
3HE11129AA	ASL VSR-BNG 10k Hosts - Application Software License is required to enable subscriber management in increments of 10,000 subscriber hosts. One (1) of these ASLs is required for every increment of 10,000 BNG subscriber hosts. Multiple ASLs may be applied to a single VSR instance to allow the <u>required subscriber hosts scale</u> .
3HE11130AA	ASL VSR-BNG 4k Hosts - Application Software License is required to enable subscriber management in increments of 10,000 subscriber hosts. One (1) of these ASLs is required for every increment of 4,000 BNG subscriber hosts. Multiple ASLs may be applied to a single VSR instance to allow the <u>required subscriber hosts scale</u> .
3HE11131AA	ASL VSR-vRGW 10k Hosts - Application Software License is required to enable virtual residential gateway subscriber management in increments of 10,000 subscriber hosts. One (1) of these ASLs is required for every increment of 10,000 vRGW subscriber hosts. Multiple ASLs may be applied to a single VSR instance to allow the <u>required subscriber hosts scale</u> .
3HE11132AA	ASL VSR-LNS 1k L2TP Tunnels - Application Software License is required for LNS providing support for up to 1,000 L2TP tunnels. Multiple ASLs may be applied to a single VSR instance to allow the <u>required tunnel scale</u> .
3HE11133AA	ASL VSR-LNS 10k Hosts - Application Software License is required to enable subscriber management in increments of 10,000 subscriber hosts. One (1) of these ASLs is required for every increment of 10,000 LNS subscriber hosts. Multiple ASLs may be applied to a single VSR instance to allow the <u>required subscriber hosts scale</u> .
3HE11134AA	ASL VSR-LNS 4k Hosts - Application Software License is required to enable subscriber management in increments of 10,000 subscriber hosts. One (1) of these ASLs is required for every increment of 4,000 LNS subscriber hosts. Multiple ASLs may be applied to a single VSR instance to allow the <u>required subscriber hosts scale</u> .
3HE11135AA	ASL VSR-WLGW 10k Hosts - Application Software License is required to enable WLAN GW subscriber hosts in increments of 10,000. One (1) license is required for every increments of 10,000 WIFI subscriber hosts per VSR. Multiple ASLs may be applied to a single VSR instance to allow the <u>required host scale</u> .
3HE11136AA	ASL VSR-WLGW Multiple SSID - Application Software License is required to enable Multiple SSID support within the WLAN GW - One (1) license is required to enable WIFI Multiple SSID Support per VSR.

3HE11137AA	ASL-VSR-WLGW Mobility - Application Software License is required to enable WiFi Inter-AP mobility. One (1) license is required to enable WIFI Inter-AP WIFI Mobility per VSR.
3HE11139AA	ASL VSR-WLGW Geo Redundancy - Application Software License is required to enable geo redundancy between WLAN GWs. One (1) license is required to enable WLAN GW Geo-Redudancy per VSR.
3HE11140AA	ASL VSR-AA ID and CTL Res 10k Subs - Application Software License (ASL) required for Application Assurance traffic identification and control for residential subscribers. One (1) of these ASLs is required for every increment of 10,000 subscribers. Multiple instances may be applied to a single VSR to allow the desired scale.
3HE11141AA	ASL VSR-AA IBN Res 10k Subs - Application Software License (ASL) required for Application Assurance IBN rules for in-browser notification (IBN) for residential subscribers. One (1) of these ASLs is required for every increment of 10,000 subscribers. Multiple instances may be applied to a single VSR to allow the desired scale.
3HE11142AA	ASL VSR-AA ICAP Control Res 10k Subs - Application Software License (ASL) required for Application Assurance ICAP session control for residential subscribers. One (1) of these ASLs is required for every increment of 10,000 subscribers. Multiple instances may be applied to a single VSR to allow the desired scale.
3HE11143AA	ASL VSR-AA URL Filter Res 10k Subs - Application Software License (ASL) required for Application Assurance local list URL filtering for residential subscribers. One (1) of these ASLs is required for URL filtering for every increment of 10,000 subscribers. Multiple instances may be applied to a single VSR to allow the desired scale.
3HE11144AA	ASL VSR-AA RTP Perf Res 10k Subs - Application Software License (ASL) required for Application Assurance RTP Performance Measurement for residential subscribers, including enable RTP Performance license. One (1) of these ASLs is required for every increment of 10,000 subscribers. Multiple instances may be applied to a single VSR to allow the desired scale.
3HE11145AA	ASL VSR-AA ID and CTL Wifi 10k Subs - Application Software License (ASL) required for Application Assurance traffic identification and control for wifi subscribers. One (1) of these ASLs is required for every increment of 10,000 subscribers. Multiple instances may be applied to a single VSR to allow the desired scale.
3HE11146AA	Application Software License - Application Software License (ASL) required for Application Assurance IBN rules for in-browser notification (IBN) for wifi subscribers. One (1) of these ASLs is required for every increment of 10,000 subscribers. Multiple instances may be applied to a single VSR to allow the desired scale.
3HE11147AA	ASL VSR-AA ICAP Control 10k Subs - Application Software License (ASL) required for Application Assurance ICAP session control for Wifi (DSM) subscribers. One (1) of these ASLs is required for every increment of 10,000 subscribers. Multiple instances may be applied to a single VSR to allow the desired scale.

3HE11148AA	Application Software License - Application Software License (ASL) required for Application Assurance local list URL filtering for wifi subscribers. One (1) of these ASLs is required for URL filtering for every increment of 10,000 subscribers. Multiple instances may be applied to a single VSR to allow the desired scale. .
3HE11149AA	ASL VSR-AA ID and CTL VPN 1 Gbps - Application Software License (ASL) required for Application Assurance traffic identification and control for VPN subscribers. One (1) of these ASLs is required for every increment of 1 Gbps of AA traffic for IMIX traffic distribution. Multiple instances may be applied to a single VSR to allow the desired scale.
3HE11150AA	ASL VSR-I AA ID and CTL VPN 100 Mbps - Application Software License (ASL) required for Application Assurance traffic identification for VPN subscribers. One (1) of these ASLs is required for every increment of 1 00 Mbps of AA traffic for IMIX traffic distribution. Multiple instances may be applied to a single VSR to allow the desired scale.
3HE11151AA	ASL VSR-AA Stateful FW 1 Gbps - Application Software License (ASL) required for Application Assurance Stateful Firewall. One (1) of these ASLs is required for every increment of 1 Gbps of AA traffic. Multiple instances may be applied to a single VSR to allow the desired scale.
3HE11152AA	ASL VSR-AA Stateful FW 100 Mbps - Application Software License (ASL) required for Application Assurance Stateful Firewall. One (1) of these ASLs is required for every increment of 100 Mbps of AA traffic. Multiple instances may be applied to a single VSR to allow the desired scale.
3HE11153AA	ASL VSR-AA RTP Perf VPN 1 Gbps - Application Software License (ASL) required for Application Assurance RTP Performance Measurement for VPN subscribers, including enable RTP Performance license. One (1) of these ASLs is required for every increment of 1 Gbps of AA traffic for IMIX traffic distribution. Multiple instances may be applied to a single VSR to allow the desired scale.
3HE11154AA	ASL VSR-I AA RTP Perf 100 Mbps - Application Software License (ASL) required for Application Assurance RTP Performance Measurement for VPN subscribers, including enable RTP Performance license. One (1) of these ASLs is required for every increment of 100 Mbps for IMIX traffic distribution. Multiple instances may be applied to a single VSR to allow the desired scale.
3HE11155AA	ASL VSR-NAT 10k Subs - Application Software License is required to enable NAT subscriber scale in increments of 10,000. One (1) license is required for every increment of 10,000 active subscribers in a Large Scale NAT (LSN) deployment. The total number of subscribers can include any subscriber type: IPv4 address in LSN44, B4 element (IPv6 address or prefix) in DS-Lite, IPv6 prefix in NAT64 or ESM subscriber in L2-Aware NAT. Multiple ASLs may be applied to a single VSR instance to allow the required subscriber scale.
3HE11156AA	ASL VSR-NAT 1 Gbps - Application Software License required to enable NAT in bandwidth in increments of 1 Gbps. One (1) license is required for every increment of 1 Gbps of NAT capacity per VSR for IMIX traffic distribution. Multiple ASLs may be applied to a single VSR instance to allow the required bandwidth scale.

3HE11157AA	ASL VSR-NAT Geo Redundancy - Application Software License required to enable geo redundancy for the NAT function. One (1) license is required to enable stateless GEO LSN redundancy per VSR. Separate NAT subscriber licenses are required for subscriber scale on each VSR.
3HE11158AA	ASL VSR-NAT UPnP - Application Software License required to enable universal plug and play (UPnP) for the NAT function. One (1) license is required to enable UPnP per VSR.
3HE11159AA	ASL VSR L2AwareNAT - Application Software License required to enable Layer 2 aware NAT. One (1) license is required to enable L2 aware NAT per VSR.
3HE11160AA	ASL VSR MAP-T 1 Gbps - Application Software License (ASL) required for Mapping of Address and Port (MAP) in VSR. One (1) of these ASLs is required for every increment of 1 Gbps of traffic utilizing MAP. Multiple ASLs may be applied to an integrated VSR instance to allow the desired scale.
3HE11161AA	ASL VSR-IPsec 1k Tunnels - Application Software License is required to enable IPsec tunnel scale in increments of 1,000 One (1) license is required for 1,000 IPsec tunnels per VSR. Multiple ASLs may be applied to a single VSR instance to allow the required tunnel scale.
3HE11162AA	ASL VSR-IPsec 100 Mbps - Application Software License is required to enable IPsec bandwidth in increments of 100 Mbps for IMIX traffic distribution. One (1) license is required for every increment of 100 Mbps of IPsec encryption capacity per VSR. Multiple ASLs may be applied to a single VSR instance to allow the required bandwidth scale.
3HE11163AA	ASL VSR-IPsec Geo Redundancy - Application Software License is required to enable geo-redundancy. One (1) license is required to enable IPsec Geo-redundancy feature within a VSR
3HE11167AA	ACC - 7210 SAS-Sx Fan Tray Filter (10) for 3HE10494AB SYS - 7210 SAS-Sx 48T4SFP+ 3HE10495AB SYS - 7210 SAS-Sx 24T4SFP+ 3HE10496AB SYS - 7210 SAS-Sx 48Tp4SFP+ (PoE) 3HE10497AB SYS - 7210 SAS-Sx 24Tp4SFP+ (PoE)
3HE11168AA	Kit contains two spare adapter brackets and fastener hardware to secure the 7750 SR-a8 chassis to an ETSI rack.
3HE11169AA	Kit contains two adapter bracket and fastener hardware to secure the 7750 SR-1e chassis to an ETSI rack.
3HE11170AA	Kit contains two adapter bracket and fastener hardware to secure the 7750 SR-2e chassis to an ETSI rack.
3HE11171AA	Kit contains two adapter bracket and fastener hardware to secure the 7750 SR-e3 chassis to an ETSI rack.
3HE11172AA	Contracted Annual Software Release Subscription (SRS) fee for VSR. Entitles customer to unlimited nodal OS software upgrade licenses for one year. Annual contracts must be purchased against the total installed base value (IBV) or Annual Lease Value (ALV) for a given customer network or channel for a particular VSR VNF. Contact local B&P team or ION BD for more information. Customer must complete Export Control Doc. prior to release of any S/W.

3HE11175AA	7750 SR 7-B-Slot Chassis with 7750 SR-7-B 100 Amp DC PEM-3 and 7750 SR-7 Enhanced Fan Tray + 7750 SR SFM5-7 + CPM5 Bundle. Bundle Includes: (1) 3HE10852AA - CH-BN - 7750 SR-7-B DC w/PEM3 + EFT (1) 3HE09261AA - SFM - 7750 SR SFM5-7 + CPM5
3HE11176AA	7750 SR 12-B Slot Chassis with 7750 SR-12 175 Amp DC PEM-3 and 7750 SR-12 Enhanced Fan Tray + 7750 SR SFM5-12 + CPM5 Bundle. Bundle Includes: (1) 3HE09260AA - SFM - 7750 SR SFM5-12 + CPM5 (1) 3HE10854AA - CH-BN - 7750 SR-12-B w/PEM3 + EFT
3HE11179AA	7750 SR-14s/7s AC/HVDC Power Shelf spare, Accessory Kit (mounting hardware), AC/HVDC Power Supplies and Coms module sold separately
3HE11180AA	7750 SR-14s/7s LVDC Power Shelf spare, Accessory Kit (mounting hardware) LVDC Power Supplies and Coms module sold separately
3HE11181AA	7750 SR-14s/7s Communication Card for the Power Shelf (LVDC and AC/HVDC)
3HE11183AA	Power Supply AC/HVDC 6kW for the 7750 SR-14s/7s/2s/1s
3HE11185AA	Power Supply LVDC 6kW for the 7750 SR-14s/7s/2s/1s
3HE11223AA	Hardware GNSS LICENSE for SAR-Ax. One (1) License needed per SAR-Ax performing GNSS functionality. Note: additional RTU 3HE07354AC will be needed to use IEEE 1588 Time/Phase functionality. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/ .
3HE11239AA	1-port 100GBase ER4Lite QSFP28 Optics Module, 40km, LC Connector, RoHS 6/6 compliant, Digital Diagnostic Monitor (DDM), 0/70C
3HE11240AA	1-port 40GBase ER4 40km QSFP+ Optics Module, 40km, LC Connector, RoHS 6/6 compliant, Digital Diagnostic Monitor (DDM)
3HE11241AA	1-port 4x10GBase LR 10km QSFP+ Optics Module, 10km, MPO Connector, RoHS 6/6 compliant, Digital Diagnostic Monitor (DDM)
3HE11245AA	1-port 1000BASE-BX-U Bi-Directional (BiDi) Small Form-Factor Pluggable (SFP) Optics Module, TX: 1490 nm, RX: 1570 nm, 80km, LC Connector, RoHS 6/6, Extended Temperature -40/85C
3HE11245AB	1-port 1000BASE-BX-D Bi-Directional (BiDi) Small Form-Factor Pluggable (SFP) Optics Module, TX: 1570nm, RX: 1490nm, 80km, LC Connector, RoHS 6/6, Extended Temperature -40/85C
3HE11278AA	7250 IXR-R6 Chassis. 6 MDA slots, 2 CPIOM slots. Accessories kit (3HE12384AA) included. No fan tray, fan filters and impedance panels included. Note that the 7250 IXR-R6 chassis does not have PSU slots.
3HE11279AA	7250 IXR-R6 fan tray. One per 7250 IXR-R6 system required
3HE11280AA	7250 IXR-R6 10 x 10GE SFP+ MDA. Pluggables sold separately.
3HE11282AB	7250 IXR-R6 1 x 100GE QSFP28 + 6 x 10GE SFP+ MDA-e. Pluggables sold separately.
3HE11283AA	7250 IXR-R6 CPIOM. Up to two per system for control and forwarding.
3HE11284AA	7250 IXR-R6 20 x GE cSFP MDA. This MDA provides up to 20 1GE ports using cSFP pluggables in slots 3 & 4 of the 7250 IXR-R6. Pluggables sold separately.
3HE11286AA	7250 IXR-R6 fan filter: 5-pack
3HE11287AA	7250 IXR-R6 CPIOM impedance panel
3HE11288AA	7250 IXR-R6 MDA impedance panel

3HE11298AA	35W High Voltage ETR Power Supply - Requires a single 90-264VAC or 88 to 300VDC input, and provides a single 24VDC output to provide power to the 7705 SAR-Hm main chassis or any other low power 24V DC product. This supply is DIN rail mountable.
3HE11301AA	7750 SR-14s Chassis Spare. Includes; (1)7750 SR-14s Chassis. (1) 3HE11313AA-ACC - 7750 SR-14s ACCESSORY KIT Impedance Panels, LVDC, AC/HVDC Power Shelf, Power Shelf Accessory kits, Rear mounting brackets, and Power Shelf interconnect kits all sold separately
3HE11304AA	CPM - 7750 SR-s CPM-14s/7s
3HE11305AA	7750 SR-7s XCM (XMA Control Module). Provides up to 4.8Tb of slot switching capacity. Accepts (1) 7750 SR-s XMA
3HE11307AA	7750 SR-s XMA (Expandable Media Adapter), 2x FP4 complex, performance to 2.4T FD, Aggregation mode up to 36-connectors Universal QSFP28. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers) Software scale upgradeable to ER or HE feature set. <u>Hardware performance up to 3.6T intelligent fan-in/fan-out</u>
3HE11307BA	7750 SR-s XMA (Expandable Media Adapter), 2x FP4 complex, performance to 2.4T FD, Aggregation mode up to 36-connectors Universal QSFP28. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers) Software scale upgradeable to HE feature set. <u>Hardware performance up to 3.6T intelligent fan-in/fan-out.</u>
3HE11307CA	7750 SR-s XMA (Expandable Media Adapter), 2x FP4 complex, performance to 2.4T FD, Aggregation mode up to 36-connectors Universal QSFP28. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers) Full High-Scale Edge feature set. <u>Hardware performance up to 3.6T intelligent fan-in/fan-out.</u>
3HE11309AA	7750 SR-14s/7s/2s XMA Impedance Panel, must be installed in each and every empty XMA slot.
3HE11310AA	7750 SR-14s XCM Impedance Panel, must be installed in each and every empty XCM-s slot.
3HE11311AA	7750 SR-14s/7s CPM Impedance Panel, must be installed in each and every empty CPM slot.
3HE11312AA	7750 SR-14s/7s Fan Tray spare
3HE11313AA	7750 SR-14s Accessory Kit, this kit includes the following; (1) CABLE ASSY RJ45 PLUG STR TO PLUG STR SHLD LSZH CAT6 BLK 5 FT (1) CABLE ASSY RJ45 PLUG STR TO PLUG STR SHLD LSZH CAT6 BLK 7 FT (2) NUT 1/4-20 (1) CONN, LUG,#2 AWG WIRE, 1/4" BOLT HOLES, .625" SPACING, 0.5" TONGUE, DOUBLE-CRIMP, 90 DEG (1) Wrist Strap (1) 3HE12566AA ACC - SR-s CLEANING TOOL HONEYCOMB
3HE11315AA	7750 SR-s Switch Fabric Module for the 7750 SR-14s/7s
3HE11316AA	7750 SR-14s XCM (XMA Control Module). Provides up to 9.6Tb of slot switching capacity. Accepts (2) 7750 SR-s XMA

3HE11362AA	7750 SR 7-B-Slot Chassis with 7750 SR-7-B 100 Amp DC PEM-3 and 7750 SR-7 Enhanced Fan Tray + 7450 ESS SFM5-7 + CPM5 Bundle. Bundle Includes: (1) 3HE10852AA - CH-BN - 7750 SR-7-B DC w/PEM3 + EFT (1) 3HE09263AA - SFM - 7450 ESS SFM5-7 + CPM5 7450 ESS feature set utilized via a BOF command. Requires SR-OS R14.0.R6 to support 7450 ESS within this chassis.
3HE11363AA	7750 SR 12-B Slot Chassis with 7750 SR-12 175 Amp DC PEM-3 and 7750 SR-12 Enhanced Fan Tray + 7450 ESS SFM5-12 + CPM5 Bundle. Bundle Includes: (1) 3HE09262AA - SFM - 7450 ESS SFM5-12 + CPM5 (1) 3HE10854AA - CH-BN - 7750 SR-12-B w/PEM3 + EFT 7450 ESS feature set utilized via a BOF command. Requires SR-OS R14.0.R6 to support 7450 ESS within this chassis.
3HE11379AA	7750 SR-7/ 7450 ESS-7 INPUT POWER RATING LABEL. Required when at least one 200G card is installed in a system.
3HE11380AA	ASL VSR BGP Route Reflector - Application Software License (ASL) is required to enable BGP Route Reflector (RR) functionality on a VSR-I (integrated model) system. A bandwidth license for at least 1Gbps must also be purchased. If more than 20 Gbps of bandwidth is licensed to a system (advanced QoS or standard QoS) BGP route reflection functionality is available without the purchase of this license. This part number purchases a license that is only valid with VSR systems running 14.0R6 or later software images.
3HE11467GA	7210 SAS-K 2F6C4T, Release 22.X Base OS License / Native and MPLS Ethernet L2 VPNs License. This is a per chassis license valid for release 22.X and must be purchased for both 7210 SAS-K 2F6C4T (non-ETR) and 7210 SAS-K 2F6C4T ETR variant. It provides the Base OS and includes support for native and MPLS-based Ethernet services (e.g. Layer-2 VPLS and Epipe services). It also includes support for syncE and PTP. It excludes the use IP services (e.g. VPRNs and IES services). It must also be purchased for upgrade to release 22.X. It will shipped on a SD Card.
3HE11467HA	7210 SAS-K 2F6C4T, Release 23.X Base OS License / Native and MPLS Ethernet L2 VPNs License. This is a per chassis license valid for release 23.X and must be purchased for both 7210 SAS-K 2F6C4T (non-ETR) and 7210 SAS-K 2F6C4T ETR variant. It provides the Base OS and includes support for native and MPLS-based Ethernet services (e.g. Layer-2 VPLS and Epipe services). It also includes support for syncE and PTP. It excludes the use IP services (e.g. VPRNs and IES services). It must also be purchased for upgrade to release 23.X. It will shipped on a SD Card.

3HE11468AA	RTU - 7210 SAS-K 2F6C4T, IP services License. This is a per chassis license and must be purchased for both 7210 SAS-K 2F6C4T (non-ETR) and 7210 SAS-K 2F6C4T ETR variant. This is a per chassis license. It is a one-time license to enable IP services on the node. It enables support of IP services (e.g. VPRN, IES and L3 VPNs using BGP 3107).
3HE11469FA	OS - 7210 SAS-Sx 10GE/100GE variant, Release 22.X Base OS License / Native and MPLS Ethernet L2 VPNs License, Standalone Mode. This is a per chassis license valid for release 22.X. It provides the Base OS and includes support for native and MPLS-based Ethernet services (e.g. Layer-2 VPLS and Epipe services) for operating in standalone mode. It also includes support for syncE and PTP. It is required to operate 7210 SAS-Sx 64SFP+ 4CFP4 and 7210 SAS-Sx 64SFP+ 4QSFP28 chassis, in standalone mode. It excludes the use IP services (e.g. VPRNs and IES services) and stacking/VC configuration. It must also be purchased for upgrade to release 22.X. ~~It will shipped on a SD Card.~~
3HE11469GA	OS - 7210 SAS-Sx 10GE/100GE variant, Release 23.X Base OS License / Native and MPLS Ethernet L2 VPNs License, Standalone Mode. This is a per chassis license valid for release 23.X. It provides the Base OS and includes support for native and MPLS-based Ethernet services (e.g. Layer-2 VPLS and Epipe services) for operating in standalone mode. It also includes support for syncE and PTP. It is required to operate 7210 SAS-Sx 64SFP+ 4CFP4 and 7210 SAS-Sx 64SFP+ 4QSFP28 chassis, in standalone mode. It excludes the use IP services (e.g. VPRNs and IES services) and stacking/VC configuration. It must also be purchased for upgrade to release 23.X. It will shipped on a SD Card.
3HE11470AA	RTU - 7210 SAS-Sx 10GE/100GE variant, IP services License, Standalone Mode. This is a per chassis license. It is a one-time license to enable IP services on the node. It enables support of IP services (e.g. VPRN, IES and L3 VPNs using BGP 3107). It is required to use IP services on 7210 SAS-Sx 64SFP+ 4CFP4 chassis, 7210 SAS-Sx 64SFP+ 4QSFP28 chassis and 7210 SAS-Sx 64SFP+ 4QSFP28 ETR chassis, in standalone mode. It excludes the use of Stacking.

3HE11471FA	7210 SAS-Sx 10GE/100GE variant, Release 22.X Base OS License, Satellite Mode. This is a per chassis license for release 22.X. It allows for operating the chassis in satellite mode. It is required to operate 7210 SAS-Sx 64SFP+ 4CFP4 and 7210 SAS-Sx 64SFP+ 4QSFP28 chassis, in satellite mode. It excludes the use standalone mode of operation and use of Stacking. It must also be purchased for upgrade to release 22.X. It will be shipped on a SD card.
3HE11471GA	7210 SAS-Sx 10GE/100GE variant, Release 23.X Base OS License, Satellite Mode. This is a per chassis license for release 23.X. It allows for operating the chassis in satellite mode. It is required to operate 7210 SAS-Sx 64SFP+ 4CFP4 and 7210 SAS-Sx 64SFP+ 4QSFP28 chassis, in satellite mode. It excludes the use standalone mode of operation and use of Stacking. It must also be purchased for upgrade to release 23.X. It will be shipped on a SD card.
3HE11588AF	7705 SAR-Hm/Hmc Release 22 OS License. One (1) OS license is required for each SAR-Hm/Hmc in the network. See the optional RTUs available for additional advanced features. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/.
3HE11588AG	SAR-Hm/Hmc Release 23 OS License. One (1) OS license is required for each SAR-Hm/Hmc in the network. See the optional RTUs available for additional advanced features. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/.
3HE11589AA	RTU - SAR-Hm WLAN license. Includes support for enabling WLAN services on the SAR-Hm node. One (1) OS License is required for each SAR-Hm in the network.
3HE11597AA	SYS - 7210 SAS-Sx 64SFP+ 4QSFP28 system includes; (1) Fixed Fans, (2) Replaceable Air Filters (2) Hot swappable power supply slots, (64) SFP+ (4)QSFP28 ports Does not include power supplies. <u>Does not include 7210 SAS Operating Software or usage licences.</u>
3HE11600AA	SAR-Hm with non-redundant (10-28V) DC power feed covering NAR and EMEA LTE/3G bands. IEEE 802.11b/g/n (WLAN) and GNSS receiver supported. DIN rail or panel mountable. Node has 6 10/100BASE-T RJ-45, 2 RS-232 (RJ-45) ports. OS, firewall, encryption and WLAN software licenses are sold separately. Antennas, DIN rail or other mounting hardware sold separately.

3HE11602AA	SAR-Hm with non-redundant (10-28V) DC power feed covering APAC and rest-of-world LTE/3G bands. IEEE 802.11b/g/n (WLAN) and GNSS receiver supported. DIN rail or panel mountable. Node has 6 10/100BASE-T RJ-45, 2 RS-232 (RJ-45) ports. OS, firewall, encryption and WLAN software licenses are sold separately. Antennas, DIN rail or other mounting hardware sold separately.
3HE11751AA	7250 IXR Power Supply Unit. 3KW AC/HVDC power supply (200 to 240V AC or 240 to 380V DC). 80-plus Titanium rated (94% efficiency)
3HE11752AA	7250 IXR Power Supply Unit. 3KW LVDC power supply, -48V DC
3HE11753AA	7250 IXR 48-port 10G SFP+ + 2-port QSFP28 Integrated Media Module for the IXR with MACSec (IMM48-SFP+2-QSFP28).
3HE11754AA	7250 IXR 36-port QSFP28 Integrated Media Module for the IXR with MACSec (IMM36-100G-QSFP28).
3HE11755AA	7250 IXR-6 Switch Fabric Module (SFM-IXR-6) - (Spare)
3HE11756AA	7250 IXR CPM Impedance Panel. Required if a single CPM is used.
3HE11757AA	7250 IXR IMM Impedance Panel. Required in every slot not populated by an IMM.
3HE11758AA	7250 IXR PSU Impedance Panel. Required in every PSU slot not populated by a PSU.
3HE11759AA	7250 IXR-6 Fan Tray - (Spare)
3HE11760AA	7250 IXR-6 Chassis - (Spare)
3HE11761AA	7250 IXR Control Processor Module (CPM-IXR) - (Spare)
3HE11762AA	7250 IXR Control Processor Module (CPM-IXR SSD) with 128 GB SSD - (Spare)
3HE11763AA	CBL - AC Power Cable, 250V, SAF-D-GRID to IEC C20, 3M, USA
3HE11764AA	CBL - HVDC Power Cable, 400V, SAF-D-GRID Dual, 3M
3HE11768AA	7250 IXR-10 Switch Fabric Module (SFM-IXR-10) - (Spare)
3HE11769AA	7250 IXR-10 Fan Tray - (Spare)
3HE11770AA	7250 IXR-10 Chassis - (Spare)
3HE11771AA	CBL - AC Power Cable, 250V, SAF-D-GRID to CEE 7/7, 3M, EUR
3HE11772AA	CBL - Open Ended AC Power Cable, 250V, 3M, EUR
3HE11878AA	Deepfield RADIUS Connector License
3HE11879AA	Deepfield DNS Connector License
3HE11880AA	Deepfield Generic Connector License
3HE11882AA	SYS - 210 WBX 48SFP28 6QSFP28, base platform Does not include fans or power supplies
3HE11883AA	PS - 210 WBX -48V DC (BtoF) supports also: 3HE15622AA SYS - 7220 IXR-D2 48SFP28 8QSFP28 3HE15623AA SYS - 7220 IXR-D3 32QSFP28 2SFP+
3HE11885AA	PS - 210 WBX AC (BtoF) supports also: 3HE15622AA SYS - 7220 IXR-D2 48SFP28 8QSFP28 3HE15623AA SYS - 7220 IXR-D3 32QSFP28 2SFP+
3HE11886AA	PS - 210 WBX AC (FtoB) supports also: 3HE15622AA SYS - 7220 IXR-D2 48SFP28 8QSFP28 3HE15623AA SYS - 7220 IXR-D3 32QSFP28 2SFP+
3HE11887AA	FAN - 210 WBX Fan (FtoB)
3HE11888AA	FAN - 210 WBX Fan (BtoF)
3HE11903AA	7750 SR 12-port 10/1GE MACSec MDA-e. Accepts twelve (12) SFP+ 10GBase or SFP 1000Base Optics Modules.

3HE11905AA	7750 SR-7s Chassis Spare. Includes; (1) 7750 SR-7s Chassis (1) 3HE12395AA -ACC - 7750 SR-7s ACCESSORY KIT Impedance Panels, LVDC, AC/HVDC Power Shelf, Power Shelf Accessory kits, Rear mounting brackets, and Power Shelf interconnect kits all sold separately
3HE11913AA	RTU - Integrated GNSS adapter for Grandmaster functionality. IXR-R6, IXR-e retrieves clock from a GNSS satellite and becomes Grandmaster. One (1) license per IXR-R6/IXR-e in the network
3HE11914AA	7250 IXR Extends FIB to host larger number of routes Right To Use license. One (1) License is required for each IXR in the network.
3HE11915AA	RTU - L2 VPN Services including EPIPE, VPLS, EVPN, VPWS, sap2sap on Access/Hybrid ports with 40G or more capacity One (1) License is required for each IXR port in the network
3HE11916AA	RTU - L3 VPN Services including IP-VPN, IES on Access/Hybrid ports with 40G or more capacity One (1) License is required for each IXR port in the network
3HE12032AA	DC Power Supply Cable to be used with AirFrame DC Compute Node Power Supply Units.
3HE12111AA	1-port 10GBASE-BX20-U (Up-Stream) Bi-Directional (BiDi) Small Form-Factor Pluggable (SFP+) Optics Module, Single Mode Fiber (SMF), 20km, TX:1330 nm, RX: 1270 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant, Temperature -40/85C
3HE12111AB	1-port 10GBASE-BX20-D (Down-Stream) Bi-Directional (BiDi) Small Form-Factor Pluggable (SFP+) Optics Module, Single Mode Fiber (SMF), 20km, TX: 1270 nm, RX: 1330 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 Compliant, Temperature -40/85C
3HE12111BA	1-port 10GBASE-BX20-U (Up-Stream) Bi-Directional (BiDi) Small Form-Factor Pluggable (SFP+) Optics Module, Single Mode Fiber (SMF), 20km, TX: 1270 nm, RX: 1330 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 Compliant, Temperature -40/85C
3HE12111BB	1-port 10GBASE-BX20-D (Down-Stream) Bi-Directional (BiDi) Small Form-Factor Pluggable (SFP+) Optics Module, Single Mode Fiber (SMF), 20km, TX:1330 nm, RX: 1270 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant, Temperature -40/85C
3HE12195AA	1-port 100GBase-SR10 or 10-port 10GBase SR QSFP28 Optic Module, 100M, MMF, MPO, RoHS 6/6, Digital Diagnostic Monitor (DDM), 0/70C
3HE12200AA	SYS - 210 WBX 48SFP28 6QSFP28, DC system, Back to Front Includes; (1) 3HE11882AA SYS - 210 WBX 48SFP28 6QSFP28 base platform (2) 3HE11883AA PS - 210 WBX -48V DC (BtoF) (4) 3HE11888AA FAN - 210 WBX Fan (BtoF)
3HE12201AA	SYS - 210 WBX 48SFP28 6QSFP28, DC System, FtoB (1) 3HE11882AA SYS - 210 WBX 48SFP28 6QSFP28 base platform (2) 3HE10837AA PS - 210 WBX, 7210 Sx 100G -48VDC (FtoB) (4) 3HE11887AA FAN - 210 WBX Fan Tray (FtoB)
3HE12202AA	SYS - 210 WBX 48SFP28 6QSFP28, AC system, Back to Front Includes; (1) 3HE11882AA SYS - 210 WBX 48SFP28 6QSFP28 base platform (2) 3HE11885AA PS - 210 WBX AC (BtoF)) (4) 3HE11888AA FAN - 210 WBX Fan (BtoF)

3HE12203AA	SYS - 210 WBX 48SFP28 6QSFP28, AC System, FtoB (1) 3HE11882AA SYS - 210 WBX 48SFP28 6QSFP28 base platform (2) 3HE11886AA PS - 210 WBX AC (FtoB) (4) 3HE11887AA FAN - 210 WBX Fan Tray (FtoB)
3HE12204AA	Nuage perpetual RTU License for 210 WBX (either 3HE11881 or 3HE11882 hardware model)
3HE12229AA	1-port 100GBase LR4 QSFP28 Optics Module, 10km, LC Connector, RoHS 6/6 compliant, Digital Diagnostic Monitor (DDM), -40/85C
3HE12230AA	1-port 100GBase CWDM4 QSFP28 Optics Module, 2km, LC Connector, RoHS 6/6 compliant, Digital Diagnostic Monitor (DDM), -40/85C
3HE12293AA	Ideal for Outdoor GNSS installation. Includes 1 x 25 ft (7.6 m) LMR400 Coax cable, 1 x Coax grounding kit, 1 x surge protector (N-type Male to Female), 1 x surge protector grounding lug and 1 x GNSS Antenna (3HE12347AA) mount kit .
3HE12293BA	Indoor/Outdoor GNSS installation kit, includes: (2) 25 ft (7.6 m) LMR400 Coax cables, (2) Coax grounding kits, (1) surge protector (N-type Female to Female) (1) <u>surge protector grounding lug.</u>
3HE12293CA	Indoor/Outdoor GNSS installation kit includes (1) 100 ft (30.5 m) (1) 25 ft (7.6 m) LMR400 Coax cables, (2) Coax grounding kits, (1) surge protector (N-type Female to Female) (1) <u>surge protector grounding lug.</u>
3HE12293DA	Indoor/Outdoor GNSS installation kit includes: (1) 300 ft (91.4 m) (1) 25 ft (7.6 m) LMR400 Coax cables, (4) Coax grounding kits, (1) surge protector (N-type Female to Female) (1) <u>surge protector grounding lug.</u>
3HE12298AA	7750 SR-1 Integrated DC System, Core Router feature set, the 3HE12302AA - ACC - 7750 SR-1 DC Accessory Kit and a 3HE10312AA - ACC - Impedance PNL MDA-e MDA-e-XP are included with this item. Fan tray sold separately
3HE12298BA	7750 SR-1 Integrated DC System, Edge Router Feature set, the 3HE12302AA - ACC - 7750 SR-1 DC Accessory Kit and a 3HE10312AA - ACC - Impedance PNL MDA-e MDA-e-XP are included with this item. Fan tray sold separately.
3HE12298CA	7750 SR-1 Integrated DC System, High Scale Edge feature set, the 3HE12302AA - ACC - 7750 SR-1 DC Accessory Kit, and a 3HE10312AA - ACC - Impedance PNL MDA-e MDA-e-XP are included with this item. Fan tray sold separately.
3HE12299AA	7750 SR-1 AC System, Core Router feature set, the 3HE12303AA - ACC - 7750 SR-1 AC Accessory kit and a 3HE10312AA - ACC - Impedance PNL MDA-e MDA-e-XP are included with this item. Fan tray sold separately
3HE12299BA	7750 SR-1 AC System, Edge Router Feature set, the 3HE12303AA - ACC - 7750 SR-1 AC Accessory kit and a 3HE10312AA - ACC - Impedance PNL MDA-e MDA-e-XP are included with this item. Fan tray sold separately
3HE12299CA	7750 SR-1 AC System, High Scale Edge feature set, the 3HE12303AA - ACC - 7750 SR-1 AC Accessory kit and a 3HE10312AA - ACC - Impedance PNL MDA-e MDA-e-XP are included with this item. Fan tray sold separately.
3HE12300AA	7750 SR-1 Fan Tray

3HE12301AA	7750 SR-1 AC Power Supply
3HE12302AA	7750 SR-1 Accessory kit DC kit (Includes, wriststrap, grounding and power lugs, mounting hardware)
3HE12303AA	7750 SR-1 Accessory kit AC kit (Includes, wriststrap, lugs, mounting hardware)
3HE12304AA	7750 SR-1 Air filter mounting kit Qty 1-- Kit comes with one filter media included.
3HE12305AA	7750 SR-1 FP4/FP5 Air filter media kit Qty 5
3HE12311AA	7705 SAR-Hm outdoor enclosure. Pole/Wall mountable (bracket sold separately). IP66/IP67 rated. Includes 2 x 4.3-10 (F) bulkhead connectors/cables preinstalled. Supports another 2 x N-Type bulkhead terminations (sold separately). Can house 1 x 7705-SAR-Hm, 1 x HV-PS35.
3HE12311BA	7705 SAR-Hm outdoor enclosure. Pole/Wall mountable (bracket sold separately). IP66/IP67 rated. Includes 2 x N-Type (F) bulkhead connectors/cables preinstalled. Supports another 2 x N-Type bulkhead terminations (sold separately). Can house 1 x 7705-SAR-Hm, 1 x HV-PS35.
3HE12312AA	Pole/Wall Mounting bracket for the 7705 SAR-Hm/SAR-Hmc Enclosure (3HE12311AA, 3HE12311BA, 3HE12555BA). Includes hardware to attach to the enclosure. Pole/Wall mounting hardware are not supplied.
3HE12314AA	7750 SR-7s CMA dual (Control Mechanical Adapter). Accepts (2) 7750 SR-s CPMs
3HE12315AA	7750 SR-14s CMA (Control Mechanical Adapter). Accepts (2) 7750 SR-s CPMs
3HE12318AA	CABLE,LMR240, SMA TO N-TYPE (FEMALE),1M
3HE12326AA	7750 SR-7s CMA single (Control Mechanical Adapter). Accepts (1) 7750 SR-s CPMs
3HE12328AA	7750 SR-14s/7s Power Shelf Accessory kit, this this accessory is required for all 7750 SR-14s/7s with a single LVDC power shelf, including the following components for the LVDC Power Shelf. (6) SCREW, 8-32 X .375 PHIL FLAT HD, 100DEG (20) SCREW 1/4-20 X 5/8 HEX (12) SCREW 8-32 X 3/8 HEX (1) BUS BAR ADAPTER NEG 1X (1) BUS BAR ADAPTER POS 1X (1) BRACKET RACK MT LVDC-R (1) BRACKET RACK MT LVDC-R L (1) BRACKET TIE POINT POWER SHELF L (1) BRACKET TIE POINT POWER SHELF R (1) BASE ASSY BB SHIELD LVDC (1) COVER ASSY BB SHIELD 1X

3HE12329AA	7750 SR-14s/7s Dual LVDC Power Shelf Accessory Kit, this this accessory is required for all 7750 SR-14s/7s with a two LVDC power shelf, including the following components for the LVDC Power Shelves. (1) CABLE ASSY RJ45 PLUG STR TO PLUG STR SHLD LSZH CAT6 BLK 3 FT (12) SCREW, 8-32 X .375 PHIL FLAT HD, 100DEG (32) SCREW 1/4-20 X 5/8 HEX (20) SCREW 8-32 X 3/8 HEX (2) BRACKET RACK MT LVDC-R (1) BUS BAR ADAPTER NEG (1) BUS BAR ADAPTER POS (2) BRACKET RACK MT LVDC-R L (1) BRACKET TIE POINT POWER SHELF L (1) BRACKET TIE POINT POWER SHELF R (2) BRACKET STRAP POWER SHELF (2) BASE ASSY BB SHIELD LVDC (1) COVER ASSY BB SHIELD
3HE12330AA	7750 SR-12e Switch Fabric Module (SFM6-12e)
3HE12331AA	7750 SR-12e mini- Switch Fabric Module (mini-SFM6-12e)
3HE12332AA	7750 SR IOM5-e, 1x FP4 complex, performance restricted to 1.5T FD, accepts two (2) MDA-e-XP. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers) This card is based off “3HE12332xA - IOM - 7750 SR IOM5-e” licensed to 1.5T throughput. Software scale upgradeable to ER or HE feature set. 7750 SR-7/12-B - licensed to 800G non-redundant throughput up to 1.5T intelligent fan-in/fan-out. 12pt 100G QSFP28 MDA-e-XP & 6pt QSFP-DD MDA-e-XP are not supported 7750 SR-12e - licensed to 1.5T throughput up to 2.4T intelligent fan-in/fan-out, no MDA-e-XP restrictions
3HE12332BA	7750 SR IOM5-e, 1x FP4 complex, performance restricted to 1.5T FD, accepts two (2) MDA-e-XP. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers) This card is based off “3HE12332xA - IOM - 7750 SR IOM5-e” licensed to 1.5T throughput. Software scale upgradeable to HE feature set. 7750 SR-7/12-B - licensed to 800G non-redundant throughput up to 1.5T intelligent fan-in/fan-out. 12pt 100G QSFP28 MDA-e-XP & 6pt QSFP-DD MDA-e-XP are not supported 7750 SR-12e - licensed to 1.5T throughput up to 2.4T intelligent fan-in/fan-out, no MDA-e-XP restrictions

3HE12332CA	7750 SR 10M5-e, 1x FP4 complex, performance restricted to 1.5T FD, accepts two (2) MDA-e-XP. High-Scale Edge (HE) no restrictions on h/w queues or egress policers Full High-Scale Edge feature set (HE) licenses on this part number does not restrict hardware queues or egress policers. 7750 SR-7/12-B - licensed to 800G non-redundant throughput up to 1.5T intelligent fan-in/fan-out. 12pt 100G QSFP28 MDA-e-XP & 6pt QSFP-DD MDA-e-XP are not supported 7750 SR-12e - licensed to 1.5T throughput up to 2.4T intelligent fan-in/fan-out, ~~no MDA-e-XP restrictions~~
3HE12333AA	7750 SR 6-ports 10/40/100GBASE MDA-e-XP. Accepts six (6) 10/40/100GBase Optic Module QSFP+/QSFP28.
3HE12334AA	7750 SR 12-ports 10/40/100GBASE MDA-e-XP. Accepts twelve (12) 10/40/100GBase Optic Module QSFP+/QSFP28.
3HE12335AA	7750 SR SFM6-7/12 (Switch Fabric Module) for the 7750 SR-7 and 7750 SR-12 chassis.
3HE12340AA	Chassis Spare - 7750 SR-2s chassis + LVDC Power Shelf. Includes; 7750 SR-2s Chassis + LVDC Power Shelf and accessory kit. Additional items in which will need to be purchased separately are; Impedance Panels in all empty slots (XCM-s, XMA-s, CPM-s), Lug Kit and optional air filter kit
3HE12340BA	Chassis Spare - 7750 SR-2s chassis + AC/HVDC Power Shelf. Includes; 7750 SR-2s Chassis + AC/HVDC Power Shelf and accessory kit. Additional items in which will need to be purchased separately are; Impedance Panels in all empty slots (XCM-s, XMA-s, CPM-s), Power Cords and optional air filter kit
3HE12343AA	Omni directional antenna. 30"Height x 1"Diameter (75 cm x 3 cm). 2dBi/3dBi gain for 694-960 MHz/1700-2700 MHz respectively. 2 x N-Female connectors for MIMO support. Suitable for outdoor deployments. U-bolt kit included for pipe mounting.
3HE12344AA	Directional antenna. 12"L x 12"W x 4.4"D (30.5 cm x 30.5 cm x 11.2 cm). 6dBi/8dBi gain for 698-960 MHz/1710-2700 MHz. 2 x N-Type female connectors for MIMO support. Suitable for outdoor deployments. Kit for pipe mounting included.
3HE12345AA	Indoor WiFi Omni Directional Antenna. 3dBi gain for 2.4GHz/5.1~5.85GHz. Screw mount Dipole Antenna with RP-SMA male connector. Mounts directly to the 7705 SAR-Hm. (10 antennas per)
3HE12346AA	Outdoor WiFi omni-directional antenna. 2 dBi gain for 2.4-2.5 GHz/4.9-5.9 GHz frequency range. Mounts directly to an N-Type bulk-head of the 7705 SAR-Hm enclosure (3HE12311AA/3HE12311BA)
3HE12346AB	Outdoor WiFi Omni Antenna, 3.5 dBi
3HE12346AC	Outdoor WiFi Omni Antenna, 5 dBi
3HE12346AD	Outdoor WiFi Omni Antenna, 7 dBi
3HE12347AA	Small GNSS antenna designed to mount directly on an N-Type bulk-head of the 7705 SAR-Hm enclosure (3HE12311AA). Can also be mounted to pole/wall with bracket (sold separately)
3HE12348AA	Bulk-head connector for 4.3-10 terminations on the 7705 SAR-Hm enclosure (3HE12311AA/3HE12311BA). 5 per box.
3HE12348BA	Bulk-head connector for N-Type terminations on the 7705 SAR-Hm enclosure (3HE12311AA/3HE12311BA). 5 per box.

3HE12349AA	N-Type bulkhead cap for the 7705 SAR-Hm enclosure (3HE12311AA/3HE12311BA). 10 per box.
3HE12350AA	CABLE,LDF4-50A 1/2",N(MALE) TO N(MALE) LOOSE,25FT
3HE12350BA	CABLE,LDF4-50A 1/2",N(MALE) TO N(MALE) LOOSE,50FT
3HE12350CA	CABLE,LDF4-50A 1/2",N(MALE) TO N(MALE) LOOSE,100FT
3HE12351AA	CABLE,LDF4-50A 1/2",4.3-10(MALE) TO 4.3-10(MALE) LOOSE,25FT
3HE12351BA	CABLE,LDF4-50A 1/2",4.3-10(MALE) TO 4.3-10(MALE) LOOSE,50FT
3HE12351CA	CABLE,LDF4-50A 1/2",4.3-10(MALE) TO 4.3-10(MALE) LOOSE,100FT
3HE12354AA	LTE Surge Protector (4.3-10/male – 4.3-10/female) (for Outdoor enclosure)
3HE12355AA	LTE Surge Protector (N/female - N/female) (for Indoor/ Outdoor applications)
3HE12356AA	LTE Surge Protector (N/male - N/female) (for Outdoor enclosure)
3HE12358AA	7750 SR-14s/7s Single AC/HVDC Power Shelf Accessory kit, this this accessory is required for all 7750 SR-14s/7s with a single AC/HVDC power shelf, including the following components for the AC/HVDC Power Shelf. (6) SCREW, 8-32 X .375 PHIL FLAT HD (20) SCREW 1/4-20 X 5/8 HEX HD (12) SCREW 8-32 X 3/8 HEX HD (1) BUS BAR ADAPTER NEG (1) BUS BAR ADAPTER POS (1) BRACKET RACK MT HVDC/AC-R R (1) BRACKET RACK MT HVDC/AC-R L (1) BRACKET TIE POINT POWER SHELF L (1) BRACKET TIE POINT POWER SHELF R (1) COVER ASSY BB SHIELD (1) BASE ASSY BB SHIELD HVDC/AC
3HE12359AA	7750 SR-14s/7s Dual AC/HVDC Power Shelf Accessory kit, this this accessory is required for all 7750 SR-14s/7s with a two AC/HVDC power shelf, including the following components for the AC/HVDC Power Shelves. (1) CABLE ASSY RJ45 PLUG STR TO PLUG STR SHLD LSZH CAT6 BLK 3 FT (12) SCREW, 8-32 X .375 PHIL FLAT HD (32) SCREW 1/4-20 X 5/8 HEX HD (20) SCREW 8-32 X 3/8 HEX HD (1) BUS BAR ADAPTER NEG (1) BUS BAR ADAPTER POS (2) BRACKET RACK MT HVDC/AC-R R (2) BRACKET RACK MT HVDC/AC-R L (1) BRACKET TIE POINT POWER SHELF L (1) BRACKET TIE POINT POWER SHELF R (2) BRACKET STRAP POWER SHELF (1) COVER ASSY BB SHIELD HVDC/AC (2) BASE ASSY BB SHIELD HVDC/AC

3HE12360AA	7750 SR-14s/7s LVDC+ AC/HVDC Power Shelf Accessory kit, this this accessory is required for all 7750 SR-14s/7s with both a LVDC and an AC/HVDC power shelf, including the following components for the Power Shelves. (1) CABLE ASSY RJ45 PLUG STR TO PLUG STR SHLD LSZH CAT6 BLK 3 FT (12) SCREW, 8-32 X .375 PHIL FLAT HD (32) SCREW 1/4-20 X 5/8 HEX HD (20) SCREW 8-32 X 3/8 HEX HD (1) BRACKET RACK MT LVDC-R (1) BUS BAR ADAPTER NEG (1) BUS BAR ADAPTER POS (1) BRACKET RACK MT HVDC/AC-R R (1) BRACKET RACK MT LVDC-R L (1) BRACKET RACK MT HVDC/AC-R L (1) BRACKET TIE POINT POWER SHELF L (1) BRACKET TIE POINT POWER SHELF R (2) BRACKET STRAP POWER SHELF (1) BASE ASSY BB SHIELD LVDC (1) COVER ASSY BB SHIELD (1) BASE ASSY BB SHIELD HVDC/AC
3HE12371AA	Screw mount dipole omni directional antenna with SMA (Male) connector. 698MHz to 960MHz, 1710MHz to 2690Mhz. Mounts directly to the 7705 SAR-Hm. (10 antennas per)
3HE12375AB	FAN - 7750 SR-2s Fan Module
3HE12376AA	7750 SR-1s Fan Tray spare
3HE12378AA	7750 SR-7s XCM Impedance Panel, must be installed in each and every empty XCM-s slot.
3HE12379AA	7750 SR-2s XCM (XMA Control Module). Provides up to 4.8Tb of slot switching capacity. Accepts (1) 7750 SR-s XMA. Each XCM-2s supports any one of the SR-s XMA-s media adapters with a <u>maximum capacity of 9.6 Tb full-duplex per system.</u>
3HE12382AA	7250 IXR-6 Gen 2 Switch Fabric Module (SFM2-IXR-6) - (Spare)
3HE12384AA	7250 IXR-R6 Accessory Kit Includes: Mounting Hardware, Wrist Strap, 5' Null Cable DB9F - RJ45
3HE12388AA	7750 SR-s XMA (Expandable Media Adapter), 2x FP4 complex, performance restricted to 2.4T FD, port restricted to 24-connectors Universal QSFP28. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers) This card is based off "3HE11307xA - XMA - SR-s 2.4T 36pt QSFP28 to 3.6T" licensed to 2.4T throughput and 24-connectors hard license enabled. Software scale upgradeable to ER or HE feature set. Hardware performance upgradeable from 2.4T or 3.6T intelligent fan-in/fan-out.

3HE12388BA	7750 SR-s XMA (Expandable Media Adapter), 2x FP4 complex, performance restricted to 2.4T FD, port restricted to 24-connectors Universal QSFP28. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers) This card is based off “3HE11307xA - XMA - SR-s 2.4T 36pt QSFP28 to 3.6T” licensed to 2.4T throughput and 24-connectors hard license enabled. Software scale upgradeable to HE feature set. Hardware performance upgradeable from 2.4T or 3.6T intelligent fan-in/fan-out.
3HE12388CA	7750 SR-s XMA (Expandable Media Adapter), 2x FP4 complex, performance restricted to 2.4T FD, port restricted to 24-connectors Universal QSFP28. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers) This card is based off “3HE11307xA - XMA - SR-s 2.4T 36pt QSFP28 to 3.6T” licensed to 2.4T throughput and 24-connectors hard license enabled. Full High-Scale Edge feature set. Hardware performance upgradeable from 2.4T or 3.6T intelligent fan-in/fan-out.
3HE12389AA	7750 SR-s XMA (Expandable Media Adapter), 4x FP4 complex, performance restricted to 3.6T FD, port restricted to 36-connectors Universal QSFP28. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers) This card is based off “ 3HE12392xA - XMA - SR-s 4.8T 36pt QSFP-DD to 12T” licensed to 3.6T throughput and 36-connectors hard license enabled. Software scale upgradeable to ER or HE feature set. Hardware performance upgradeable from 3.6T to 4.8T or 12T intelligent fan-in/fan-out
3HE12389BA	7750 SR-s XMA (Expandable Media Adapter), 4x FP4 complex, performance restricted to 3.6T FD, port restricted to 36-connectors Universal QSFP28. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers) This card is based off “3HE12392xA - XMA - SR-s 4.8T 36pt QSFP-DD to 12T” licensed to 3.6T throughput and 36-connectors hard license enabled. Software scale upgradeable to HE feature set. Hardware performance upgradeable from 3.6T to 4.8T or 12T intelligent fan-in/fan-out

3HE12389CA	7750 SR-s XMA (Expandable Media Adapter), 4x FP4 complex, performance restricted to 3.6T FD, port restricted to 36-connectors Universal QSFP28. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers) This card is based off “3HE12392xA - XMA - SR-s 4.8T 36pt QSFP-DD to 12T” licensed to 3.6T throughput and 36-connectors hard license enabled. Full High-Scale Edge feature set. Hardware performance upgradeable from 3.6T to 4.8T or 12T intelligent fan-in/fan-out
3HE12390AA	7750 SR-s XMA (Expandable Media Adapter), 4x FP4 complex, performance restricted to 3.6T FD, port restricted to 36-connectors Universal QSFP28-DD. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers) This card is based off “ 3HE12392xA - XMA - SR-s 4.8T 36pt QSFP-DD to 12T” licensed to 3.6T throughput and 36-connectors hard license enabled. Software scale upgradeable to ER or HE feature set. Hardware performance upgradeable from 3.6T to 4.8T or 12T intelligent fan-in/fan-out
3HE12390BA	7750 SR-s XMA (Expandable Media Adapter), 4x FP4 complex, performance restricted to 3.6T FD, port restricted to 36-connectors Universal QSFP28-DD. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers) This card is based off “3HE12392xA - XMA - SR-s 4.8T 36pt QSFP-DD to 12T” licensed to 3.6T throughput and 36-connectors hard license enabled. Software scale upgradeable to HE feature set. Hardware performance upgradeable from 3.6T to 4.8T or 12T intelligent fan-in/fan-out
3HE12390CA	7750 SR-s XMA (Expandable Media Adapter), 4x FP4 complex, performance restricted to 3.6T FD, port restricted to 36-connectors Universal QSFP28-DD. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers) This card is based off “3HE12392xA - XMA - SR-s 4.8T 36pt QSFP-DD to 12T” licensed to 3.6T throughput and 36-connectors hard license enabled. Full High-Scale Edge feature set. Hardware performance upgradeable from 3.6T to 4.8T or 12T intelligent fan-in/fan-out
3HE12391AA	7750 SR-s XMA (Expandable Media Adapter), 4x FP4 complex, performance restricted to 4.8T FD, port restricted to 36-connectors Universal QSFP56-DD. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers) This card is based off “ 3HE12392xA - XMA - SR-s 4.8T 36pt QSFP-DD to 12T” licensed to 4.8T throughput and 36-connectors hard license enabled. Software scale upgradeable to ER or HE feature set. Hardware performance upgradeable to 12T intelligent fan-in/fan-out

3HE12391BA	7750 SR-s XMA (Expandable Media Adapter), 4x FP4 complex, performance restricted to 4.8T FD, port restricted to 36-connectors Universal QSFP56-DD. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers) This card is based off "3HE12392xA - XMA - SR-s 4.8T 36pt QSFP-DD to 12T" licensed to 4.8T throughput and 36-connectors hard license enabled. Software scale upgradeable to HE feature set. ~~Hardware performance upgradeable to 12T intelligent fan-in/fan-out~~
3HE12391CA	7750 SR-s XMA (Expandable Media Adapter), 4x FP4 complex, performance restricted to 4.8T FD, port restricted to 36-connectors Universal QSFP56-DD. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers) This card is based off "3HE12392xA - XMA - SR-s 4.8T 36pt QSFP-DD to 12T" licensed to 4.8T throughput and 36-connectors hard license enabled. Full High-Scale Edge feature set. ~~Hardware performance upgradeable to 12T intelligent fan-in/fan-out~~
3HE12392AA	7750 SR-s XMA (Expandable Media Adapter), 4x FP4 complex, performance 4.8T FD, Aggregation mode up to 12T, 36-connectors Universal QSFP56-DD. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers) Full High-Scale Edge feature set. ~~Hardware performance up to 12T intelligent fan-in/fan-out~~
3HE12392BA	7750 SR-s XMA (Expandable Media Adapter), 4x FP4 complex, performance 4.8T FD, Aggregation mode up to 12T, 36-connectors Universal QSFP56-DD. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers) Full Edge Router feature set. ~~Hardware performance up to 12T intelligent fan-in/fan-out~~
3HE12392CA	7750 SR-s XMA (Expandable Media Adapter), 4x FP4 complex, performance 4.8T FD, Aggregation mode up to 12T, 36-connectors Universal QSFP56-DD. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers) Full High-Scale Edge feature set. ~~Hardware performance up to 12T intelligent fan-in/fan-out~~
3HE12395AA	7750 SR-7s Accessory Kit, this kit includes the following; (2) CABLE ASSY RJ45 PLUG STR TO PLUG STR SHLD LSZH CAT6 BLK 5 FT (2) NUT 1/4-20 (1) CONN, LUG,#2 AWG WIRE, 1/4" BOLT HOLES, .625" SPACING, 0.5" TONGUE, DOUBLE-CRIMP, 90 DEG (1) WRIST STRAP (1) 3HE12566AA ACC - SR-s CLEANING TOOL. HONEYCOMB
3HE12407AA	7750 SR 2-ports 10/25/40/100GBASE MDA-e. Accepts two (2) QSFP+/QSFP28 100GBase Optic Module, supports MACsec.

3HE12409AA	DTE cable to connect from the 12 port SDIv3 (3HE03391AC) or SDIv3 conformal coated version (3HE03391BC) to the distribution panels (SCSI-SCSI). One cable per pair of connectors on the SDIv3 as required (connect upto 4 ports).
3HE12410AA	DCE cable to connect from the 12 port SDIv3 (3HE03391AC) or SDIv3 conformal coated version (3HE03391BC) to the distribution panels (SCSI-SCSI). One cable per pair of connectors on the SDIv3 as required (connect upto 4 ports).
3HE12421AA	Replacement air filters kit (qty 10) for 10 x SR-7s chassis or for 5 x 14s chassis (2 per chassis) worth
3HE12424AA	Outdoor WiFi Directional Antenna, 8 dBi
3HE12432AA	Accessory Kit - 7750 SR-1 ETSI rack mount kit
3HE12433AA	6 port (2 x 10G SFP+, 4 x 1G – SFP) Ethernet 10Gbps card. Optics (SFP, SFP+) are sold separately. This card is supported in both -48 VDC and +24 VDC systems. No Encryption.
3HE12433BA	Conformal Coated Variant of 6 port (2 x 10G SFP+, 4 x 1G – SFP) Ethernet 10Gbps card. Optics (SFP, SFP+) are sold separately. This card is supported in both -48 VDC and +24 VDC systems. No Encryption.
3HE12434AA	This kit includes everything required for GNSS installation kit (3HE12293AA, 3HE12293BA, 3HE12293CA, 3HE12293DA) customization. Cutter, crimper, stripper & midspan stripper included.
3HE12442AA	4-Port RS232 Distribution Panel for the SDIv3
3HE12443AA	4-Port RS530 Distribution Panel for the SDIv3
3HE12444AA	4-Port X.21 Distribution Panel for the SDIv3
3HE12445AA	4-Port V.35 Distribution Panel for the SDIv3
3HE12446AA	7250 IXR-10 Gen2 Switch Fabric Module (SFM2-IXR-10) - (Spare)
3HE12449AA	Jumper cable for WiFi port of the 7705 SAR-Hm enclosure (3HE12311AA/3HE12311BA). 10 per box.
3HE12450AA	Jumper cable for GNSS port of the 7705 SAR-Hm enclosure (3HE12311AA/3HE12311BA). 10 per box.
3HE12451AA	LDF4 1/2" cable strip tool
3HE12458AA	7250 IXR Control Processor Module (CPM2-IXR SSD) with 240 GB SSD - (Spare)
3HE12459AA	7750 SR-14s air filter door kit, this is an optional kit for customers to deploy with an air filter door for the 7750 SR-14s, this kit includes the following; (1) GROUND STRAP, FILTER DOOR, RA-7/14S (1) Left upright assembly-with wrapper, filter door kit (1) Right upright assembly-with wrapper, filter door kit (1) Cross Bar assembly top (1) Cross Bar assembly bottom (1) Air filter door (4) Alignment pins (16) 6-32 x 1/2 screws (8) 6-32 x 1/4 screws (2) Air intake filters (4) 10-32 x 3/8 screws

3HE12460AA	7750 SR-7s air filter door kit, this is an optional kit for customers to deploy with an air filter door for the 7750 SR-7s, this kit includes the following; (1) GROUND STRAP, FILTER DOOR, RA-7/14S (1) Left upright assembly-with wrapper, filter door kit (1) Right upright assembly-with wrapper, filter door kit (1) Cross Bar assembly top (1) Cross Bar assembly bottom (1) Air filter door (4) Alignment pins (12) 6-32 x 1/2 screws (4) 6-32 x 1/4 screws Phil (4) 6-32 x 1/4 screws Flat (4) 10-32 x 3/8 screws (1) Air intake filter
3HE12462AA	Spare SD card (16GB). -40 to 85C, SLC.
3HE12464AA	Power jumper designed for the 7250 IXR-R6, mountable to frame or other suitable location
3HE12464BA	Power jumper designed for the 7250 IXR-R6, with 1RU rack mount bracket
3HE12469AA	7750 SR-14s/7s Qty 1 LVDC Power Shelf lug kit, this kit is required for all 7750 SR-14s/7s systems in which are power by LVDC Power Shelves, includes the following; (40) NUT 1/4-20 (20) CONN, LUG,#2 AWG WIRE, 1/4" BOLT HOLES, .625" SPACING, 0.5" TONGUE, DOUBLE-CRIMP, 90 DEG
3HE12470AA	7750 SR-14s Rear Chassis Rackmount kit, includes the following; (4) SCREW 8-32 X 3/8 HEX HD (2) BRACKET ASSY RACK MT REAR
3HE12471AA	7750 SR-7s Rear Chassis Rackmount kit, includes the following; (4) SCREW 8-32 X 3/8 HEX HD (2) BRACKET ASSY, RACK MOUNT, REAR 7s
3HE12472AA	7705 SAR-Hmc with 9-60V DC power feed and covering NAR LTE frequencies, including the CBRS band. System supports LTE Cat4 connectivity with Main and diversity, and a GNSS input for location. Supports 3 x 10/100 Mbps RJ45 and 2 x RS232 in a single RJ45. Can be DIN/panel/wall/shelf mounted, and includes DIN Rail mounting clip. Antennas, mounting hardware, OS and other RTU licenses are sold separately.
3HE12473AA	7705 SAR-Hmc with 9-60V DC power feed and covering North American LTE/3G wireless frequencies, including the CBRS band. System supports LTE Cat7/Cat13 DL/UL connectivity with Main and diversity, and a GNSS input for location. Supports 3 x 10/100 Mbps RJ45 and 2 x RS232 in a single RJ45. Can be DIN/panel/wall/shelf mounted, and includes DIN Rail mounting clip. Antennas, mounting hardware, OS and other RTU licenses are sold separately.
3HE12477AA	7705 SAR-Hmc with 9-60V DC power feed with LTE/3G wireless frequencies. System supports LTE Cat7/Cat13 DL/UL connectivity with Main and diversity, and a GNSS input for location. Supports 3 x 10/100 Mbps RJ45 and 2 x RS232 in a single RJ45. Can be DIN/panel/wall/shelf mounted, and includes DIN Rail mounting clip. Antennas, mounting hardware, OS and other RTU licenses are sold separately.
3HE12496AA	2RU kit to convert the 7250 IXR-R6 airflow from right-to-left to front-to-back. Note that this may derate the maximum supported ambient temperatures on the 7250 IXR-R6.

3HE12501AA	7250 IXR-R4 Chassis. 4 MDA slots, 2 CPM slots, 1 IOM slot, 1 Fan tray slot and 1 fan filter slot. No fan tray and impedance panels included.
3HE12502AA	7250 IXR-R4 fan tray. One per 7250 IXR-R4 system required
3HE12503AA	7250 IXR-R4 fan filter: 5-pack
3HE12504AA	8-Port C37.94 Teleprotection Card. Supports multi- and single-mode C37.94 optics. Optics sold separately.
3HE12504BA	Conformal coated 8-Port C37.94 Teleprotection Card. Supports multi- and single-mode C37.94 optics. Optics sold separately.
3HE12506AA	7750 SR-2s Rear Mounting Hardware Kit
3HE12507AA	7750 SR-1s Rear Mounting Hardware Kit
3HE12510AA	7750 SR-s IOM-s (Input/Output Module) 1.6T IOM-s Core Routing, accepts two modular MDA-s, 2x FP4 complex, CR (Core Router) feature set. MDA-s impedance panels needs to be added separately. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers) This card is based off “3HE14027xA - XMA - IOM-s - SR-s IOM-s 3.0T” Software scale upgradeable to ER or HE feature set. Hardware performance upgradeable from 2.4T to 3.0T.
3HE12510BA	7750 SR-s IOM-s (Input/Output Module) 1.6T IOM-s Edge Routing, accepts two modular MDA-s, 2x FP4 complex, ER (Edge Router) feature set. MDA-s impedance panels needs to be added separately. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers) This card is based off “3HE14027xA - XMA - IOM-s - SR-s IOM-s 3.0T” Software scale upgradeable to ER or HE feature set. Hardware performance upgradeable from 2.4T or 3.0T
3HE12510CA	7750 SR-s IOM-s (Input/Output Module) 1.6T IOM-s High-Scale Edge Routing, accepts two modular MDA-s, 2x FP4 complex, HE (High-Scale Edge) feature set. MDA-s impedance panels needs to be added separately. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers) This card is based off “3HE14027xA - XMA - IOM-s - SR-s IOM-s 3.0T” Full High-Scale Edge feature set Hardware performance upgradeable from 2.4T or 3.0T.
3HE12511AA	7750 SR-s 18-ports 10/40/100GBASE MDA-s. Accepts (18) 10/40/100GBase Optic Module QSFP+/QSFP28.
3HE12512AA	7750 SR-s 6-port CFP2-DCO MDA-s. 100 Gbps transmission using QPSK modulation for metro-core and long-haul applications and 200 Gbps (2x100G) for metro-access applications. Accepts six (6) CFP-DCO Optic Module.
3HE12514AA	7750 SR-s 24-ports 10/100GBASE MDA-s. Accepts (24) 10/100GBase Optic Module SFP+/SFP-DD.
3HE12515AA	7750 SR-s 4-ports QSFP56-DD (10/40/100/400G) + 4-ports QSFP28 (10/40/100G) MDA-s. Accepts (4) 10/40/100/400GBase Optic Module QSFP+/QSFP28/QSFP28-DD/QSFP56-DD + 4-ports QSFP+/QSFP28.
3HE12518AA	7250 IXR-R6 4 x 10GE SFP+ + 1 x100GE CFP2 MDA. Pluggables sold separately.

3HE12519AA	ACC – 7750 SR-2s Air Filter Kit Qty 1 The Filter kit is highly recommend for every installation and therefore, should be order with each system
3HE12520AA	Multi-mode LC-to-ST connectors for the 8-port C37.94 Teleprotection Card (3HE12504AA/3HE12504BA). Pack of 5 cables.
3HE12522AA	7250 IXR-6/10 Gen2 IMM supporting 32-port 100 GE QSFP28 + 4-port 400GE QSFP-DD. Pluggables sold separately.
3HE12523AA	7250 IXR-R6 6 x 10GE SFP+ + 4 x 25GE SFP28 MDA. Pluggables sold separately.
3HE12524AA	7750 SR-s XMA (Expandable Media Adapter), 1x FP4 complex, performance restricted to 600G FD, port restricted to 6-connectors Universal QSFP28. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers) This card is based off “3HE12526xA - XMA - SR-s 1.2T 18pt QSFP28” licensed to 600G throughput and 6-connectors hard license enabled. Software scale upgradeable to ER or HE feature set. Hardware performance upgradeable from 0.6T to 1.2T or 1.8T intelligent fan-in/fan-out
3HE12524BA	7750 SR-s XMA (Expandable Media Adapter), 1x FP4 complex, performance restricted to 600G FD, port restricted to 6-connectors Universal QSFP28. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers) This card is based off “3HE12526xA - XMA - SR-s 1.2T 18pt QSFP28” licensed to 600G throughput and 6-connectors hard license enabled. Software scale upgradeable to HE feature set. Hardware performance upgradeable from 0.6T to 1.2T or 1.8T intelligent fan-in/fan-out
3HE12524CA	7750 SR-s XMA (Expandable Media Adapter), 1x FP4 complex, performance restricted to 600G FD, port restricted to 6-connectors Universal QSFP28. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers) This card is based off “3HE12526xA - XMA - SR-s 1.2T 18pt QSFP28” licensed to 600G throughput and 6-connectors hard license enabled. Full High-Scale Edge feature set. Hardware performance upgradeable from 0.6T to 1.2T or 1.8T intelligent fan-in/fan-out
3HE12525AA	7750 SR-s XMA (Expandable Media Adapter), 1x FP4 complex, performance restricted to 1.2T FD, port restricted to 12-connectors Universal QSFP28. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers) This card is based off “3HE12526xA - XMA - SR-s 1.2T 18pt QSFP28” licensed to 1.2T throughput and 12-connectors hard license enabled. Software scale upgradeable to ER or HE feature set. Hardware performance upgradeable from 1.2T or 1.8T intelligent fan-in/fan-out.

3HE12525BA	7750 SR-s XMA (Expandable Media Adapter), 1x FP4 complex, performance restricted to 1.2T FD, port restricted to 12-connectors Universal QSFP28. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers) This card is based off “3HE12526xA - XMA - SR-s 1.2T 18pt QSFP28” licensed to 1.2T throughput and 12-connectors hard license enabled. Software scale upgradeable to HE feature set. Hardware performance upgradeable from 1.2T or 1.8T intelligent fan-in/fan-out.
3HE12525CA	7750 SR-s XMA (Expandable Media Adapter), 1x FP4 complex, performance restricted to 1.2T FD, port restricted to 12-connectors Universal QSFP28. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers) This card is based off “3HE12526xA - XMA - SR-s 1.2T 18pt QSFP28” licensed to 1.2T throughput and 12-connectors hard license enabled. Full High-Scale Edge feature set. Hardware performance upgradeable from 1.2T or 1.8T intelligent fan-in/fan-out.
3HE12526AA	7750 SR-s XMA (Expandable Media Adapter), 1x FP4 complex, performance to 1.2T FD, Aggregation mode up to 18-connectors Universal QSFP28. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers) Software scale upgradeable to ER or HE feature set. Hardware performance up to 1.8T intelligent fan-in/fan-out
3HE12526BA	7750 SR-s XMA (Expandable Media Adapter), 1x FP4 complex, performance to 1.2T FD, Aggregation mode up to 18-connectors Universal QSFP28. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers) Software scale upgradeable to HE feature set. Hardware performance up to 1.8T intelligent fan-in/fan-out.
3HE12526CA	7750 SR-s XMA (Expandable Media Adapter), 1x FP4 complex, performance to 1.2T FD, Aggregation mode up to 18-connectors Universal QSFP28. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers) Full High-Scale Edge feature set. Hardware performance up to 1.8T intelligent fan-in/fan-out.
3HE12528AA	7750 SR-2s XCM-2s IMPEDANCE PANEL Kit which includes the 3HE11309AA XMA-s impedance panel
3HE12529AA	7750 SR-2s CPM-2s IMPEDANCE PANEL
3HE12546AA	1-port C37.94 SR Multimode Fiber (MMF), 2km, 850 nm, LC Connector, RoHS 6/6 compliant, Extended Temperature -40/85C
3HE12547AA	1-port C37.94 SR Single mode Fiber (SMF), 20km, 1310 nm, LC Connector, RoHS 6/6 compliant, Extended Temperature -40/85C
3HE12549AA	7250 IXR-R4 CPM. Two required per system for control redundancy.
3HE12550AA	7250 IXR-R4 IOM. One required per system. Supports 2 x 10GE SFP+/SFP and 10 x 1GE SFP ports. Pluggables sold separately.

3HE12551AA	7250 IXR-R4 Accessory Kit Includes: Mounting Hardware, Wrist Strap, 5' Null Cable DB9F - RJ45
3HE12554AA	7705 SAR-Hmc 1-to-2 RJ45 serial Y-cable. 5 per pack.
3HE12555BA	7705 SAR-Hmc outdoor enclosure. Pole/Wall mountable (bracket sold separately). IP66/IP67 rated. Includes 2 x N-Type (F) bulkhead connectors/cables preinstalled. Supports another 2 x N-Type bulkhead terminations (sold separately). Can house 1 x 7705-SAR-Hmc, 1 x HV-PS35.
3HE12559AA	CPM2-14s/7s (Control Processor Module) for the 7750 SR-14s & 7s platforms. Supported in the CMA2-14s (3HE12561AA) and CMA2-7s (3HE12560AA)
3HE12560AA	7750 SR-s CMA2-7s (Control Mechanical Adapter). Accepts (2) 7750 SR-s CPMs-14s/7s (3HE12559AA)
3HE12561AA	7750 SR-s CMA2-14s (Control Mechanical Adapter). Accepts (2) 7750 SR-s CPMs-14s/7s (3HE12559AA)
3HE12566AA	Spare Accessory kit for the 7750 SR-s Cleaning tool, honeycomb. With 6 tape-stacks for cleaning up to 288 vents.
3HE12570AA	Spare Accessory kit for the 7750 SR-1 Cleaning tool, honeycomb. With 6 tape-stacks for cleaning up to 288 vents.
3HE13343AA	SYS - 7250 IXR-s
3HE13344AA	PS - 7250 IXR AC Power Supply, fits the 7250 IXR-s system.
3HE13345AA	PS - 7250 IXR DC Power Supply, fits the IXR-s system
3HE13346AA	Fan - 7250 IXR Fan, fits the 7250 IXR-s system
3HE13360AA	IOM4-e/-B RTU License Upgrade from L2HQ to L3HQ for IOM4-e/-B IMM . RTU license upgrade is tied to the specific IOM4-e/-B line card for which it is purchased. Customers are required to provide the serial number of the IOM4-e/-B line card for which the RTU license is being purchased.
3HE13361AA	IOM4-e/-B RTU License Upgrade from L3BQ to L3HQ for IOM4-e/-B. RTU license upgrade is tied to the specific IOM4-e/-B line card for which it is purchased. Customers are required to provide the serial number of the IOM4-e/-B line card for which the RTU license is being purchased.
3HE13362AA	RTU - SROS Telemetry Right To Use License. A per system license. Allows the use of Telemetry functionality.
3HE13368AA	ASL VSR-AA DEM Gateway Wifi 10K Subs - Application Software License (ASL) required for Application Assurance Dynamic Experience Management Gateway. One (1) of these ASLs is required for every increment of 10,000 subscribers, in addition to AA licenses. Multiple instances may be applied to allow the desired scale. Per Network license.
3HE13369AA	SROS DEM Gateway Wifi 10K Subs - Right to Use (RTU) required for Application Assurance Dynamic Experience Management Gateway. One (1) of these RTUs is required for every increment of 10,000 subscribers, in addition to AA licenses. Multiple instances may be applied to allow the desired scale. Per Network license.
3HE13394AA	Spare SD card (4GB). -40 to 85C, SLC.
3HE13408AA	SR/ESS 128 GB Compact Flash - Spare (Blank)
3HE13426AA	ACC - 7210 SAS-K 2F4T6C ETR rack mount, fits one 7210 SAS-K (K12) and its power supplies in a 19" rack
3HE13476DA	ASL R22 VSR-a Base - Application Software License required for a VSR-a HN7 or HN8 appliance Additional ASLs will be required to add bandwidth capacity, services and value added services such as RR, AA, SEGW, BNG, WLGW & NAT.

3HE13476EA	ASL R23 VSR-a Base - Application Software License required for a VSR-a HN7 or HN8 appliance. Additional ASLs will be required to add bandwidth capacity, services and value added services such as RR, AA, SEGW, BNG, WLGW & NAT.
3HE13504AA	7750 SR SFM6-7/12 & CPM5, one (1) required per 7750 SR-7/12 slot Shelf, up to two (2) per 7750 SR-7/12 slot Shelf for CPU and fabric redundancy Bundle includes: (1) 3HE08423AA - CPM - 7750 SR CPM5 (1) 3HE12335AA - SFM - 7750 SR SFM6-7/12 ~~7750 SR-14s AC/HVDC complete chassis bundle, shipped with air common~~
3HE13506AA	hardware. Includes: (1) 3HE11301AA - CHAS - 7750 SR-14s CHASSIS, (1) 3HE12315AA - CMA - 7750 SR-14s, (2) 3HE11304AA - CPM - 7750 SR-s CPM-7s/14s (8) 3HE11315AA - SFM - 7750 SR-7s/14s, (8) 3HE11312AA - FAN - 7750 SR-7s/14s FAN TRAY, (1) 3HE11179AA - CHAS - 7750 SR-7s/14s AC/HVDC PWR SHELF, (5) 3HE11183AA - PSU - AC/HVDC 6kw POWER SUPPLY, (1) 3HE11181AA - COM - 7750 SR-7s/14s COMMUNICATION CARD Note: AC/HVDC Power Shelf includes the filler panels for the PSU. Additional items in which will need to be purchased separately are; Impedance Panels in all empty slots (XCM-s, XMA-s, CPM-s), AC/HVDC power shelf accessory kit, Power Cords and optional air filter door kit. ~~Chassis accessory kit included.~~ ~~7750 SR-7s AC/HVDC complete chassis bundle, shipped with air common~~
3HE13507AA	hardware. Control redundancy. Includes: (1) 3HE11905AA - CHAS - 7750 SR-7s CHASSIS, (1) 3HE12314AA - CMA - 7750 SR-7s DUAL, (2) 3HE11304AA - CPM - 7750 SR-s CPM-7s/14s, (4) 3HE11315AA - SFM - 7750 SR-7s/14s, (4) 3HE11312AA - FAN - 7750 SR-7s/14s FAN TRAY, (1) 3HE11179AA - CHAS - 7750 SR-7s/14s AC/HVDC PWR SHELF (3) 3HE11183AA - PSU - AC/HVDC 6kw POWER SUPPLY, (1) 3HE11181AA - COM - 7750 SR-7s/14s COMMUNICATION CARD Note: AC/HVDC Power Shelf includes the filler panels for the PSU. Additional items in which will need to be purchased separately are; Impedance Panels in all empty slots (XCM-s, XMA-s, CPM-s), AC/HVDC power shelf accessory kit, Power Cords and optional air filter door kit. ~~Chassis accessory kit included.~~

3HE13508AA	~~7750 SR-7s DC complete chassis bundle, shipped with all common hardware. No control redundancy. Includes:~~ (1) 3HE11905AA - CHAS - 7750 SR-7s CHASSIS, (1) 3HE12326AA - CMA - 7750 SR-7s SINGLE, (1) 3HE11304AA - CPM - 7750 SR-s CPM-7s/14s, (4) 3HE11315AA - SFM - 7750 SR-7s/14s, (4) 3HE11312AA - FAN - 7750 SR-7s/14s FAN TRAY, (1) 3HE11180AA - CHAS - 7750 SR-7s/14s LVDC POWER SHELF, (3) 3HE11185AA - PSU - LVDC 6kw POWER SUPPLY, (1) 3HE11181AA - COM - 7750 SR-7s/14s COMMUNICATION CARD Note: LVDC Power Shelf includes the filler panels for the PSU. Additional items in which will need to be purchased separately are; Impedance Panels in all empty slots (XCM-s, XMA-s, CPM-s), LVDC power shelf accessory kit and power lug kit, and optional air filter door kit.
3HE13509AA	~~7750 SR-7s AC/HVDC complete chassis bundle, shipped with all common hardware. No control redundancy. Includes:~~ (1) 3HE11905AA - CHAS - 7750 SR-7s CHASSIS, (1) 3HE12326AA - CMA - 7750 SR-7s SINGLE, (1) 3HE11304AA - CPM - 7750 SR-s CPM-7s/14s, (4) 3HE11315AA - SFM - 7750 SR-7s/14s, (4) 3HE11312AA - FAN - 7750 SR-7s/14s FAN TRAY, (1) 3HE11179AA - CHAS - 7750 SR-7s/14s AC/HVDC PWR SHELF, (3) 3HE11183AA - PSU - AC/HVDC 6kw POWER SUPPLY, (1) 3HE11181AA - COM - 7750 SR-7s/14s COMMUNICATION CARD Note: AC/HVDC Power Shelf includes the filler panels for the PSU. Additional items in which will need to be purchased separately are; Impedance Panels in all empty slots (XCM-s, XMA-s, CPM-s), AC/HVDC power shelf accessory kit, Power Cords and optional air filter door kit. ~~Chassis accessory kit included.~~
3HE13513AA	7750 SR-1s + AC/HVDC Power Shelf, 2.4T 24-port QSFP28 (supported QSFP+/QSFP28) Core Router feature set; Includes the following; (1) 3HE13799AA - SYS - SR-1s 2.4T 24pt QSFP28 CR AC/HVDC (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module (2) 3HE11183AA - PSU - AC/HVDC 6kw Power Supply 7750 SR-1s, 2x FP4 complex, performance restricted to 2.4T FD, port restricted to 24-connectors Universal QSFP28. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers) This 7750 SR-1s is based off “3HE13801xA - SYS-SR-1s 2.4T 36pt QSFP28 to 3.6T AC/HVDC” licensed to 2.4T throughput and 24-connectors hard license enabled. Software scale upgradeable to ER or HE feature set. Hardware performance upgradeable from 2.4T to 3.6T intelligent fan-in/fan-out.

3HE13513BA	7750 SR-1s + AC/HVDC Power Shelf Bundle, 2.4T 24-port QSFP28 (supported QSFP+/QSFP28) Edge Router feature set; Includes the following; (1) 3HE13799BA - SYS - SR-1s 2.4T 24pt QSFP28 ER AC/HVDC (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module (2) 3HE11183AA - PSU - AC/HVDC 6kw Power Supply 7750 SR-1s system, 2x FP4 complex, performance restricted to 2.4T FD, port restricted to 24-connectors Universal QSFP28. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers) This card is based off “3HE13801xA - SYS-SR-1s 2.4T 36pt QSFP28 to 3.6T AC/HVDC” licensed to 2.4T throughput and 24-connectors hard license enabled. Software scale upgradeable to ER or HE feature set. Hardware performance upgradeable from 2.4T to 3.6T intelligent fan-in/fan-out.
3HE13513CA	7750 SR-1s + AC/HVDC Power Shelf Bundle, 2.4T 24-port QSFP28 (supported QSFP+/QSFP28) Edge Router feature set; Includes the following; (1) 3HE13799CA - SYS - SR-1s 2.4T 24pt QSFP28 HE AC/HVDC (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module (2) 3HE11183AA - PSU - AC/HVDC 6kw Power Supply 7750 SR-1s system, 2x FP4 complex, performance restricted to 2.4T FD, port restricted to 24-connectors Universal QSFP28. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers) This 7750 SR-1s is based off “3HE13801xA - SYS-SR-1s 2.4T 36pt QSFP28 to 3.6T AC/HVDC” licensed to 2.4T throughput and 24-connectors hard license enabled. Full High-Scale Edge feature set. Hardware performance upgradeable from 2.4T to 3.6T intelligent fan-in/fan-out.

3HE13514AA	7750 SR-1s + LVDC Power Shelf Bundle, 3.6T 36-port QSFP-DD (supported QSFP+/QSFP28/QSFP-DD), Core Router feature set; Includes the following; (1) 3HE13804AA - SYS - SR-1s 3.6T 36pt QSFP-DD CR LVDC (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module (2) 3HE11185AA - PSU - LVDC 6kw Power Supply 7750 SR-1s, 4x FP4 complex, performance restricted to 3.6T FD, port restricted to 36-connectors Universal QSFP-DD. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers) This 7750 SR-1s is based off “3HE13808xA - SYS-SR-1s 4.8T 36pt QSFP-DD to 12T DC” licensed to 3.6T throughput and 36-connectors hard license enabled. Software scale upgradeable to ER or HE feature set. Hardware performance upgradeable from 3.6T to 4.8T or 12T intelligent fan-in/fan-out.
3HE13514BA	7750 SR-1s + LVDC Power Shelf Bundle, 3.6T 36-port QSFP-DD(supported QSFP+/QSFP28/QSFP28-DD), Edge Router feature set: Includes the following; (1) 3HE13804BA - SYS - SR-1s 3.6T 36pt QSFP-DD ER LVDC (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module (2) 3HE11185AA - PSU - LVDC 6kw Power Supply 7750 SR-1s system, 4x FP4 complex, performance restricted to 3.6T FD, port restricted to 36-connectors Universal QSFP-DD. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers) This card is based off “3HE13808xA - SYS-SR-1s 4.8T 36pt QSFP-DD to 12T DC” licensed to 3.6T throughput and 36-connectors hard license enabled. Software scale upgradeable to HE feature set. Hardware performance upgradeable from 3.6T to 4.8T or 12T intelligent fan-in/fan-out.

3HE13514CA	7750 SR-1s + LVDC Power Shelf Bundle, 3.6T 36-port QSFP-DD (supported QSFP+/QSFP28/QSFP-DD), High Scale Edge feature set; Includes the following; (1) 3HE13804CA - SYS - SR-1s 3.6T 36pt QSFP-DD HE LVDC (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module (2) 3HE11185AA - PSU - LVDC 6kw Power Supply 7750 SR-1s system, 4x FP4 complex, performance restricted to 3.6T FD, port restricted to 36-connectors Universal QSFP-DD. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers) This 7750 SR-1s is based off “3HE13808xA - SYS-SR-1s 4.8T 36pt QSFP-DD to 12T DC” licensed to 3.6T throughput and 36-connectors hard license enabled. Full High-Scale Edge feature set. Hardware performance upgradeable from 3.6T to 4.8T or 12T intelligent fan-in/fan-out.
3HE13515AA	7750 SR-1s + AC/HVDC Power Shelf, 3.6T 36-port QSFP-DD (supported QSFP+/QSFP28/QSFP-DD), Core Router feature set; Includes the following; (1) 3HE13805AA - SYS - SR-1s 3.6T 36pt QSFP-DD CR AC/HVDC (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module (2) 3HE11183AA - PSU - AC/HVDC 6kw Power Supply 7750 SR-1s, 4x FP4 complex, performance restricted to 3.6T FD, port restricted to 36-connectors Universal QSFP-DD. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers) This 7750 SR-1s is based off “3HE13809AA - SYS-SR-1s 4.8T 36pt QSFP-DD to 12T AC/HVDC” licensed to 3.6T throughput and 36-connectors hard license enabled. Software scale upgradeable to ER or HE feature set. Hardware performance upgradeable from 3.6T to 4.8T or 12T intelligent fan-in/fan-out.

3HE13515BA	7750 SR-1s + AC/HVDC Power Shelf Bundle, 3.6Tb 36-port QSFP-DD (supported QSFP+/QSFP28/QSFP-DD), Edge Router feature set; Includes the following; (1) 3HE13805BA - SYS - SR-1s 3.6T 36pt QSFP-DD ER AC/HVDC (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module (2) 3HE11183AA - PSU - AC/HVDC 6kw Power Supply 7750 SR-1s system, 4x FP4 complex, performance restricted to 3.6T FD, port restricted to 36-connectors Universal QSFP-DD. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers) This card is based off “3HE13809AA - SYS-SR-1s 4.8T 36pt QSFP-DD CR to 12T AC/HVDC” licensed to 3.6T throughput and 36-connectors hard license enabled. Software scale upgradeable to HE feature set. Hardware performance upgradeable from 3.6T to 4.8T or 12T intelligent fan-in/fan-out.
3HE13515CA	7750 SR-1s + AC/HVDC Power Shelf Bundle, 3.6T 36-port QSFP-DD (supported QSFP+/QSFP28/QSFP28-DD), High Scale Edge feature set; Includes the following; (1) 3HE13805CA - SYS - SR-1s 3.6T 36pt QSFP-DD HE AC/HVDC (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module (2) 3HE11183AA - PSU - AC/HVDC 6kw Power Supply 7750 SR-1s system, 4x FP4 complex, performance restricted to 3.6T FD, port restricted to 36-connectors Universal QSFP-DD High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers) This 7750 SR-1s is based off “3HE13809xA - SYS-SR-1s 4.8T 36pt QSFP-DD to 12T AC/HVDC” licensed to 3.6T throughput and 36-connectors hard license enabled. Full High-Scale Edge feature set. Hardware performance upgradeable from 3.6T to 4.8T or 12T intelligent fan-in/fan-out.

3HE13516AA	7750 SR-1s + LVDC Power Shelf Bundle, 4.8T 36-port QSFP-DD (supported QSFP+/QSFP28/QSFP-DD), Core Router feature set; Includes the following; (1) 3HE13806AA - SYS - SR-1s 4.8T 36pt QSFP-DD CR LVDC (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module (2) 3HE11185AA - PSU - LVDC 6kw Power Supply 7750 SR-1s, 4x FP4 complex, performance restricted to 4.8T FD, port restricted to 36-connectors Universal QSFP-DD. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers) This 7750 SR-1s is based off “3HE13808xA - SYS-SR-1s 4.8T 36pt QSFP-DD to 12T DC” licensed to 4.8T throughput and 36-connectors hard license enabled. Software scale upgradeable to ER or HE feature set. Hardware performance upgradeable from 4.8T to 12T intelligent fan-in/fan-out.
3HE13516BA	7750 SR-1s + LVDC Power Shelf Bundle, 4.8T 36-port QSFP-DD (supported QSFP+/QSFP28/QSFP-DD), Edge Router feature set: Includes the following; (1) 3HE13806BA - SYS - SR-1s 4.8T 36pt QSFP-DD ER LVDC (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module (2) 3HE11185AA - PSU - LVDC 6kw Power Supply 7750 SR-1s system, 4x FP4 complex, performance restricted to 4.8T FD, port restricted to 36-connectors Universal QSFP-DD. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers) This card is based off “3HE13808xA - SYS-SR-1s 4.8T 36pt QSFP-DD to 12T DC” licensed to 4.8T throughput and 36-connectors hard license enabled. Software scale upgradeable to HE feature set. Hardware performance upgradeable from 4.8T to 12T intelligent fan-in/fan-out.

3HE13516CA	7750 SR-1s + LVDC Power Shelf Bundle, 4.8T 36-port QSFP-DD (supported QSFP+/QSFP28/QSFP-DD), High Scale Edge feature set; Includes the following; (1) 3HE13806CA - SYS - SR-1s 4.8T 36pt QSFP-DD HE LVDC (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module (2) 3HE11185AA - PSU - LVDC 6kw Power Supply 7750 SR-1s system, 4x FP4 complex, performance restricted to 4.8T FD, port restricted to 36-connectors Universal QSFP-DD. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers) This 7750 SR-1s is based off “3HE13808xA - SYS-SR-1s 4.8T 36pt QSFP-DD to 12T DC” licensed to 4.8T throughput and 36-connectors hard license enabled. Full High-Scale Edge feature set. Hardware performance upgradeable from 4.8T to 12T intelligent fan-in/fan-out.
3HE13517AA	7750 SR-1s + AC/HVDC Power Shelf Bundle, 4.8T 36-port QSFP-DD (supported QSFP+/QSFP28/QSFP-DD), Core Router feature set; Includes the following; (1) 3HE13807AA - SYS - SR-1s 4.8T 36pt QSFP-DD CR AC/HVDC (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module (2) 3HE11183AA - PSU - AC/HVDC 6kw Power Supply 7750 SR-1s, 4x FP4 complex, performance restricted to 4.8T FD, port restricted to 36-connectors Universal QSFP-DD. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers) This 7750 SR-1s is based off “3HE13809AA - SYS-SR-1s 4.8T 36pt QSFP-DD to 12T AC/HVDC” licensed to 4.8T throughput and 36-connectors hard license enabled. Software scale upgradeable to ER or HE feature set. Hardware performance upgradeable from 4.8T to 12T intelligent fan-in/fan-out.

3HE13517BA	7750 SR-1s + AC/HVDC Power Shelf Bundle, 4.8T 36-port QSFP-DD (supported QSFP+/QSFP28/QSFP-DD), Edge Router feature set: Includes the following; (1) 3HE13807BA - SYS - SR-1s 4.8T 36pt QSFP-DD ER AC/HVDC (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module (2) 3HE11183AA - PSU - AC/HVDC 6kw Power Supply 7750 SR-1s system, 4x FP4 complex, performance restricted to 4.8T FD, port restricted to 36-connectors Universal QSFP-DD. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers) This card is based off “3HE13809AA - SYS-SR-1s 4.8T 36pt QSFP-DD CR to 12T AC/HVDC” licensed to 4.8T throughput and 36-connectors hard license enabled. Software scale upgradeable to HE feature set. Hardware performance upgradeable from 4.8T to 12T intelligent fan-in/fan-out.
3HE13517CA	7750 SR-1s + AC/HVDC Power Shelf Bundle, 4.8T 36-port QSFP-DD (supported QSFP+/QSFP28/QSFP-DD), High Scale Edge feature set; Includes the following; (1) 3HE13807CA - SYS - SR-1s 4.8T 36pt QSFP-DD HE AC/HVDC (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module (2) 3HE11183AA - PSU - AC/HVDC 6kw Power Supply 7750 SR-1s system, 4x FP4 complex, performance restricted to 4.8T FD, port restricted to 36-connectors Universal QSFP28. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers) This 7750 SR-1s is based off “3HE13809AA - SYS-SR-1s 4.8T 36pt QSFP-DD CR to 12T AC/HVDC” licensed to 4.8T throughput and 36-connectors hard license enabled. Full High-Scale Edge feature set. Hardware performance upgradeable from 4.8T to 12T intelligent fan-in/fan-out.

3HE13518AA	7750 SR-1s + LVDC Power Shelf Bundle, 4.8T 36-port QSFP-DD (supported QSFP+/QSFP28/QSFP-DD), Aggregation mode to 12T, Core Router feature set; Includes the following; (1) 3HE13808AA - SYS - SR-1s 4.8T 36pt QSFP-DD CR to 12T DC (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module (2) 3HE11185AA - PSU - LVDC 6kw Power Supply 7750 SR-1s system, 4x FP4 complex, performance to 4.8T FD, Aggregation mode up to 12T, 36-connectors Universal QSFP-DD. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers) Software scale upgradeable to ER or HE feature set. Hardware performance up to 12T intelligent fan-in/fan-out
3HE13518BA	7750 SR-1s + LVDC Power Shelf Bundle, 4.8T 36-port QSFP-DD (supported QSFP+/QSFP28/QSFP-DD), Aggregation mode to 12T, Edge Router feature set; Includes the following; (1) 3HE13808BA - SYS - SR-1s 4.8T 36pt QSFP-DD ER to 12T DC (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module (2) 3HE11185AA - PSU - LVDC 6kw Power Supply 7750 SR-1s system, 4x FP4 complex, performance to 4.8T FD, Aggregation mode up to 12T, 36-connectors Universal QSFP-DD. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers) Software scale upgradeable to HE feature set. Hardware performance up to 12T intelligent fan-in/fan-out.
3HE13518CA	7750 SR-1s + LVDC Power Shelf Bundle, 4.8T 36-port QSFP-DD (supported QSFP+/QSFP28/QSFP-DD), Aggregation mode to 12T, High Scale Edge feature set; Includes the following; (1) 3HE13808CA - SYS - SR-1s 4.8T 36pt QSFP-DD HE to 12T DC (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module (2) 3HE11185AA - PSU - LVDC 6kw Power Supply 7750 SR-1s system, 2x FP4 complex, performance to 4.8T FD, Aggregation mode up to 12T, to 36-connectors Universal QSFP-DD. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers) Full High-Scale Edge feature set. Hardware performance up to 12T intelligent fan-in/fan-out.

3HE13519AA	7750 SR-1s + AC/HVDC Power Shelf Bundle, 4.8T 36-port QSFP-DD (supported QSFP+/QSFP28/QSFP-DD), Aggregation mode to 12T, Core Router feature set; Includes the following; (1) 3HE13809AA - SYS-SR-1s 4.8T 36pt QSFP-DD CR to 12T AC/HVDC (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module (2) 3HE11183AA - PSU - AC/HVDC 6kw Power Supply 7750 SR-1s system, 4x FP4 complex, performance to 4.8T FD, Aggregation mode up to 12T, 36-connectors Universal QSFP-DD. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers) Software scale upgradeable to ER or HE feature set. Hardware performance up to 12T intelligent fan-in/fan-out
3HE13519BA	7750 SR-1s + AC/HVDC Power Shelf Bundle, 4.8T 36-port QSFP-DD (supported QSFP+/QSFP28/QSFP-DD), Aggregation mode to 12T, Edge Router feature set; Includes the following; (1) 3HE13809BA - SYS - SR-1s 4.8T 36pt QSFP-DD ER to 12T AC/HVDC (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module (2) 3HE11183AA - PSU - AC/HVDC 6kw Power Supply 7750 SR-1s system, 4x FP4 complex, performance to 4.8T FD, Aggregation mode up to 12T, 36-connectors Universal QSFP-DD. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers) Software scale upgradeable to HE feature set. Hardware performance up to 12T intelligent fan-in/fan-out.
3HE13519CA	7750 SR-1s + AC/HVDC Power Shelf Bundle, 4.8T 36-port QSFP-DD (supported QSFP+/QSFP28/QSFP-DD), Aggregation mode to 12T, High Scale Edge feature set; Includes the following; (1) 3HE13809CA - SYS - SR-1s 4.8T 36pt QSFP-DD HE to 12T AC/HVDC (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module (2) 3HE11183AA - PSU - AC/HVDC 6kw Power Supply 7750 SR-1s system, 2x FP4 complex, performance to 4.8T FD, Aggregation mode up to 12T, to 36-connectors Universal QSFP-DD. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers) Full High-Scale Edge feature set. Hardware performance up to 12T intelligent fan-in/fan-out.
3HE13522AA	IOM-e RTU License Upgrade from L2HQ to L3HQ for IOM-e IMM. RTU license upgrade is tied to the specific IOM-e line card for which it is purchased. Customers are required to provide the serial number of the IOM-e line card for which the RTU license is being purchased.

3HE13523AA	IOM-e RTU License Upgrade from L3BQ to L3HQ for IOM-e. RTU license upgrade is tied to the specific IOM-e line card for which it is purchased. Customers are required to provide the serial number of the IOM-e line card for which the RTU license is being purchased.
3HE13524AA	IOM4-e-HS RTU License Upgrade from L3BQ to L3HQ for IOM4-e-HS. RTU license upgrade is tied to the specific IOM4-e-HS line card for which it is purchased. Customers are required to provide the serial number of the IOM4-e-HS line card for which the RTU license is being purchased.
3HE13535AA	7250 IXR-10 LVDC Complete chassis bundle with all common hardware including: (1) 3HE11770AA - CHAS - 7250 IXR-10 Chassis (4) 3HE11752AA - PSU - 7250 IXR LVDC (6) 3HE11768AA - SFM - 7250 IXR-10 SFM (2) 3HE11761AA - CPM - 7250 IXR CPM (3) 3HE11769AA - FAN - 7250 IXR-10 Fan Tray Note: Impedance panels (IMM, PSU) need to be ordered separately for every empty slot
3HE13536AA	7250 IXR-6 LVDC complete chassis bundle with all common hardware including: (1) 3HE11760AA - CHAS - 7250 IXR-6 Chassis (2) 3HE11752AA - PSU - 7250 IXR LVDC (6) 3HE11755AA - SFM - 7250 IXR-6 SFM (2) 3HE11761AA - CPM - 7250 IXR CPM (3) 3HE11759AA - FAN - 7250 IXR-6 Fan Tray Note: Impedance panels (IMM, PSU) need to be ordered separately for every empty slot.
3HE13537AA	7250 IXR-10 AC/HVDC Complete chassis bundle with all common hardware including: (1) 3HE11770AA - CHAS - 7250 IXR-10 Chassis (4) 3HE11751AA - PSU - 7250 IXR AC/HVDC (6) 3HE11768AA - SFM - 7250 IXR-10 SFM (2) 3HE11761AA - CPM - 7250 IXR CPM (3) 3HE11769AA - FAN - 7250 IXR-10 Fan Tray Note: Impedance panels (IMM, PSU) need to be ordered separately for every empty slot
3HE13538AA	7250 IXR-6 AC/HVDC complete chassis bundle with all common hardware including: (1) 3HE11760AA - CHAS - 7250 IXR-6 Chassis (2) 3HE11751AA - PSU - 7250 IXR AC/HVDC (6) 3HE11755AA - SFM - 7250 IXR-6 SFM (2) 3HE11761AA - CPM - 7250 IXR CPM (3) 3HE11759AA - FAN - 7250 IXR-6 Fan Tray Note: Impedance panels (IMM, PSU) need to be ordered separately for every empty slot

3HE13539AA	7250 IXR-10 LVDC Complete chassis bundle with all common hardware including: (1) 3HE11770AA - CHAS - 7250 IXR-10 Chassis (4) 3HE11752AA - PSU - 7250 IXR LVDC (6) 3HE11768AA - SFM - 7250 IXR-10 SFM (2) 3HE11762AA - CPM - 7250 IXR CPM 128 GB SSD (3) 3HE11769AA - FAN - 7250 IXR-10 Fan Tray Note: Impedance panels (IMM, PSU) need to be ordered separately for every empty slot.
3HE13540AA	7250 IXR-6 LVDC complete chassis bundle with all common hardware including: (1) 3HE11760AA - CHAS - 7250 IXR-6 Chassis (2) 3HE11752AA - PSU - 7250 IXR LVDC (6) 3HE11755AA - SFM - 7250 IXR-6 SFM (2) 3HE11762AA - CPM - 7250 IXR CPM 128 GB SSD (3) 3HE11759AA - FAN - 7250 IXR-6 Fan Tray Note: Impedance panels (IMM, PSU) need to be ordered separately for every empty slot.
3HE13541AA	7250 IXR-10 AC/HVDC Complete chassis bundle with all common hardware including: (1) 3HE11770AA - CHAS - 7250 IXR-10 Chassis (4) 3HE11751AA - PSU - 7250 IXR AC/HVDC (6) 3HE11768AA - SFM - 7250 IXR-10 SFM (2) 3HE11762AA - CPM - 7250 IXR CPM 128 GB SSD (3) 3HE11769AA - FAN - 7250 IXR-10 Fan Tray Note: Impedance panels (IMM, PSU) need to be ordered separately for every empty slot.
3HE13542AA	7250 IXR-6 AC/HVDC complete chassis bundle with all common hardware including: (1) 3HE11760AA - CHAS - 7250 IXR-6 Chassis (2) 3HE11751AA - PSU - 7250 IXR AC/HVDC (6) 3HE11755AA - SFM - 7250 IXR-6 SFM (2) 3HE11762AA - CPM - 7250 IXR CPM 128 GB SSD (3) 3HE11759AA - FAN - 7250 IXR-6 Fan Tray Note: Impedance panels (IMM, PSU) need to be ordered separately for every empty slot.
3HE13555AA	SYS - 7210 SAS-K 3SFP+ 8C ETR AC, Includes two (2) fixed power supplies. Does not include software
3HE13556AA	SYS - 7210 SAS-K 3SFP+ 8C ETR 20-72V DC, includes two (2) fixed power supplies. Does not include software
3HE13569AA	Vehicle Mount LTE MIMO/WiFi/GNSS antenna. Upto 5 dBi gain for LTE 698-960/1695-2170/2300-2700/2900-3600 MHz. Upto 5 dBi gain for WiFi 2400-2500/4900-5925 MHz. 2 x N-Type male connectors for LTE MIMO, 1 x N-Type male connector for WiFi and 1 x N-Type male connector for GNSS. Direct mount to vehicle.
3HE13569AB	Vehicle Mount LTE MIMO/WiFi/GNSS antenna. Upto 5 dBi gain for LTE 698-960/1695-2170/2300-2700/2900-3600 MHz. Upto 5 dBi gain for WiFi 2400-2500/4900-5925 MHz. 2 x SMA male connectors for LTE MIMO, 1 x RP-SMA male connector for WiFi and 1 x SMA male connector for GNSS. Direct mount to vehicle.

3HE13570AA	System Bundle - 7750 SR-1 DC Core Router feature set, includes; (1) 3HE12298AA - SYS - 7750 SR-1 DC 1.5T CR Included with the SR-1 chassis: (1) 3HE12302AA - ACC - 7750 SR-1 DC Accessory Kit (1) 3HE10312AA - ACC - Impedance PNL MDA-e MDA-e-XP (4) 3HE12300AA - FAN - 7750 SR-1 Fan Tray CR licenses on this part number restricts the hardware queues to 1024 per complex and the number of egress policers to 1024 per complex
3HE13570BA	System Bundle - 7750 SR-1 DC Edge Router feature set, includes; (1) 3HE12298BA - SYS - 7750 SR-1 DC 1.5T ER Included with the SR-1 chassis: (1) 3HE12302AA - ACC - 7750 SR-1 DC Accessory Kit (1) 3HE10312AA - ACC - Impedance PNL MDA-e MDA-e-XP (4) 3HE12300AA - FAN - 7750 SR-1 Fan Tray ER licenses on this part number restricts the hardware queues to 16 384 per complex and the number of egress policers to 16 384 per complex
3HE13570CA	System Bundle - 7750 SR-1 DC High Scale Router feature set, Density Level 1 includes; (1) 3HE12298CA - SYS - 7750 SR-1 DC 1.5T HE Included with the SR-1 chassis: (1) 3HE12302AA - ACC - 7750 SR-1 DC Accessory Kit (1) 3HE10312AA - ACC - Impedance PNL MDA-e MDA-e-XP (4) 3HE12300AA - FAN - 7750 SR-1 Fan Tray HE licenses on this part number does not restrict hardware queues or egress policers
3HE13571AA	System Bundle - 7750 SR-1 non-redundant AC power, Core Router feature set, includes; (1) 3HE12299AA - SYS - 7750 SR-1 AC 1.5T CR Included with the SR-1 chassis: (1) 3HE12303AA - ACC - 7750 SR-1 AC Accessory Kit (1) 3HE10312AA - ACC - Impedance PNL MDA-e MDA-e-XP (1) 3HE12301AA - PSU – 7750 SR-1 AC Power Supply (4) 3HE12300AA - FAN - 7750 SR-1 Fan Tray CR licenses on this part number restricts the hardware queues to 1024 per complex and the number of egress policers to 1024 per complex
3HE13571BA	System Bundle - 7750 SR-1 non-redundant AC power, Edge Router feature set, includes; (1) 3HE12299BA - SYS - 7750 SR-1 AC 1.5T ER Included with the SR-1 chassis: (1) 3HE12303AA - ACC - 7750 SR-1 AC Accessory Kit (1) 3HE10312AA - ACC - Impedance PNL MDA-e MDA-e-XP (1) 3HE12301AA - PSU – 7750 SR-1 AC Power Supply (4) 3HE12300AA - FAN - 7750 SR-1 Fan Tray ER licenses on this part number restricts the hardware queues to 16 384 per complex and the number of egress policers to 16 384 per complex

3HE13571CA	System Bundle - 7750 SR-1 non-redundant AC power, High Scale Router feature set, includes; (1) 3HE12299CA - SYS - 7750 SR-1 AC 1.5T HE Included with the SR-1 chassis: (1) 3HE12303AA - ACC - 7750 SR-1 AC Accessory Kit (1) 3HE10312AA - ACC - Impedance PNL MDA-e MDA-e-XP (1) 3HE12301AA - PSU – 7750 SR-1 AC Power Supply (4) 3HE12300AA - FAN - 7750 SR-1 Fan Tray HE licenses on this part number does not restrict hardware queues or egress policers
3HE13584AA	7250 IXR-R6 chassis bundle, includes: (1) 3HE11278AA - 7250 IXR-R6 Chassis (1) 3HE11279AA - 7250 IXR-R6 Fan Tray (1) 3HE11286AA - 7250 IXR-R6 Fan Filters (5-pack) (1) 3HE11283AA - 7250 IXR-R6 CPIOM (1) 3HE11287AA - 7250 IXR-R6 CPIOM Impedance Panel (5) 3HE11288AA - 7250 IXR-R6 MDA Impedance Panel
3HE13589AA	24F SMF MPO-MPO Patch Cable, 3M
3HE13590AA	24F MMF MPO-24 to MPO-24 jumper, 3M
3HE13591AA	12F SMF MPO-12 to MPO-12 jumper, 3M
3HE13592AA	12F MMF MPO-12 to MPO-12 jumper, 3M
3HE13725AA	Upgrade license from SR-1 Core Router - to SR-1 Edge Router - system
3HE13726AA	Upgrade license from SR-1 Edge Router - to SR-1 High Scale Router - system
3HE13727AA	7750 SR IOM5-e, 1x FP4 complex, performance restricted to 400G FD, accepts two (2) MDA-e-XP. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers) This card is based off “3HE12332xA - IOM - 7750 SR IOM5-e” licensed to 400G throughput. Software scale upgradeable to ER or HE feature set. Hardware performance upgradeable from 400G to 800G or 1.5T 7750 SR-7/12-B - licensed to 400G throughput up to 1.5T intelligent fan-in/fan-out. 12pt 100G QSFP28 MDA-e-XP and 3pt CFP2-DCO MDA-e-XP not supported 7750 SR-12e - licensed to 400G throughput up to 2.4T intelligent fan-in/fan-out, no MDA-e-XP restrictions
3HE13727BA	7750 SR IOM5-e, 1x FP4 complex, performance restricted to 400G FD, accepts two (2) MDA-e-XP. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers) This card is based off “3HE12332xA - IOM - 7750 SR IOM5-e” licensed to 400G throughput. Software scale upgradeable to HE feature set. Hardware performance upgradeable from 400G to 800G or 1.5T 7750 SR-7/12-B - licensed to 400G throughput up to 1.5T intelligent fan-in/fan-out. 12pt 100G QSFP28 MDA-e-XP and 3pt CFP2-DCO MDA-e-XP not supported 7750 SR-12e - licensed to 400G throughput up to 2.4T intelligent fan-in/fan-out, no MDA-e-XP restrictions

3HE13727CA	7750 SR IOM5-e, 1x FP4 complex, performance restricted to 400G FD, accepts two (2) MDA-e-XP. High-Scale Edge (ER) no restrictions on h/w queues or egress policers This card is based off “3HE12332xA - IOM - 7750 SR IOM5-e” licensed to 400G throughput. Full High-Scale Edge feature set Hardware performance upgradeable from 400G to 800G or 1.5T 7750 SR-7/12-B - licensed to 400G throughput up to 1.5T intelligent fan-in/fan-out. 12pt 100G QSFP28 MDA-e-XP and 3pt CFP2-DCO MDA-e-XP not supported 7750 SR-12e - licensed to 400G throughput up to 2.4T intelligent fan-in/fan-out, no MDA-e-XP restrictions
3HE13728AA	7750 SR12e LVDC Chassis + Non-Redundant SFM6-12e, bundle includes the following; (1) 3HE07165AA - CH-BN - 7750 SR12e Integrated Chassis (1) 3HE12330AA - SFM - 7750 SR SFM6-12e (1) 3HE08423AA - CPM - 7750 SR CPM5 (2) 3HE12331AA - SFM - 7750 SR mini-SFM6-12e (3) 3HE09422AA - APEQ-DC-2200-2800 Power Equalizer Module (1) 3HE10475AA - ACC 7750 SR-12e 80A Breakers x16
3HE13729AA	7750 SR12e AC Chassis + Non-Redundant SFM6-12e, bundle includes the following; (1) 3HE07165AA - CH-BN - 7750 SR12e Integrated Chassis (1) 3HE12330AA - SFM - 7750 SR SFM6-12e (1) 3HE08423AA - CPM - 7750 SR CPM5 (2) 3HE12331AA - SFM - 7750 SR mini-SFM6-12e (3) 3HE09423AA - APEQ-AC-3000 Power Equalizer Module (1) 3HE10114AA - ACC 7750 SR-12e AC bezel
3HE13734AA	Upgrade from IOM5-e 400G CR (Core Router) to IOM5-e 400G ER (Edge Router) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>
3HE13735AA	Upgrade from IOM5-e 400G ER (Edge Router) to IOM5-e 400G HE (High-Scale Edge) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>
3HE13736AA	Upgrade from IOM5-e 1.5T CR (Core Router) to IOM5-e 1.5T ER (Edge Router) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>

3HE13737AA	Upgrade from IOM5-e 1.5T ER (Edge Router) to IOM5-e 1.5T HE (High-Scale Edge) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>
3HE13738AA	7750 SR 12-B Slot Chassis with 7750 SR-12-B 175 Amp DC PEM-3 and 7750 SR-12 Enhanced Fan Tray + 7750 SR SFM6-7/12 + CPM5 Bundle. Bundle Includes: (1) 3HE12335AA - SFM - 7750 SR SFM6-7/12 (1) 3HE08423AA - CPM - 7750 SR CPM5 (1) 3HE10854AA - CH-BN - 7750 SR-12-B w/PEM3 + EFT
3HE13739AA	7750 SR 7-B Slot Chassis with 7750 SR-7-B 100 Amp DC PEM-3 and 7750 SR-7 Enhanced Fan Tray + 7750 SR SFM6-7/12 + CPM5 Bundle. Bundle Includes: (1) 3HE10852AA - CH-BN - 7750 SR-7-B DC w/PEM3 + EFT (1) 3HE12335AA - SFM - 7750 SR SFM6-7/12 (1) 3HE08423AA - CPM - 7750 SR CPM5
3HE13740AA	7750 SR-s XMA (Expandable Media Adapter), 2x FP4 complex, performance restricted to 1.6T FD, port restricted to 16-connectors Universal QSFP28. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers) This card is based off “3HE11307xA - XMA - SR-s 2.4T 36pt QSFP28 to 3.6T” licensed to 1.6T throughput and 16-connectors hard license enabled. Software scale upgradeable to ER or HE feature set. Hardware performance upgradeable from 1.6T to 2.4T or 3.6T intelligent fan-in/fan-out
3HE13740BA	7750 SR-s XMA (Expandable Media Adapter), 2x FP4 complex, performance restricted to 1.6T FD, port restricted to 16-connectors Universal QSFP28. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers) This card is based off “3HE11307xA - XMA - SR-s 2.4T 36pt QSFP28 to 3.6T” licensed to 1.6T throughput and 16-connectors hard license enabled. Software scale upgradeable to ER or HE feature set. Hardware performance upgradeable from 1.6T to 2.4T or 3.6T intelligent fan-in/fan-out
3HE13740CA	7750 SR-s XMA (Expandable Media Adapter), 2x FP4 complex, performance restricted to 1.6T FD, port restricted to 16-connectors Universal QSFP28. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers) This card is based off “3HE11307xA - XMA - SR-s 2.4T 36pt QSFP28 to 3.6T” licensed to 1.6T throughput and 16-connectors hard license enabled. Full High-Scale Edge feature set Hardware performance upgradeable from 1.6T to 2.4T or 3.6T intelligent fan-in/fan-out

3HE13741AA	Upgrade license from 1.6Tbps 16 port QSFP28 XMA-ER to 2.4Tbps 24port QSFP28 XMA-ER <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>
3HE13742AA	Upgrade license from 1.6Tbps 16 port QSFP28 XMA-HE to 2.4Tbps 24port QSFP28 XMA-HE <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>
3HE13743AA	Upgrade license to enable aggregation mode up to 3.6T / 36 ports on 2.4Tbps 24 port QSFP28 XMA (applies to CR, ER, HE variants) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>
3HE13744AA	Upgrade license from 1.6Tbps 16 port QSFP28 XMA-CR to 1.6Tbps 16 port QSFP28 XMA-ER <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>
3HE13745AA	Upgrade license from 1.6Tbps 16 port QSFP28 XMA-ER to 1.6Tbps 16 port QSFP28 XMA-HE <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>
3HE13746AA	Upgrade license from 2.4Tbps 24 port QSFP28 XMA-CR to 2.4Tbps 24 port QSFP28 XMA-ER (also applies to aggregation mode 2.4T XMA variant) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>
3HE13747AA	Upgrade license from 2.4Tbps 24 port QSFP28 XMA-ER to 2.4Tbps 24 port QSFP28 XMA-HE (also applies to aggregation mode 2.4T XMA variant) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>
3HE13748AA	Upgrade license to enable QSFP28-DD (200G) support on 3.6Tbps 36 port QSFP28 XMA (applies to CR, ER, HE variants) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>
3HE13749AA	Upgrade license from 3.6Tbps 36 port QSFP-DD XMA-CR to 4.8Tbps 36 port QSFP-DD XMA-CR <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>

3HE13750AA	Upgrade license from 3.6Tbps 36 port QSFP-DD XMA-ER to 4.8Tbps 36 port QSFP-DD XMA-ER <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>
3HE13751AA	Upgrade license from 3.6Tbps 36 port QSFP-DD XMA-HE to 4.8Tbps 36 port QSFP-DD XMA-HE <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>
3HE13752AA	Upgrade license to enable aggregation mode up to 12T on 4.8Tbps 36 port QSFP-DD XMA (applies to CR, ER, HE variants) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>
3HE13753AA	Upgrade license from 3.6Tbps 36 port QSFP-28 XMA-CR to 3.6Tbps 36 port QSFP-28 XMA-ER (also applies to 3.6T QSFP-DD XMA variant) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>
3HE13754AA	Upgrade license from 3.6Tbps 36 port QSFP-28 XMA-ER to 3.6Tbps 36 port QSFP-28 XMA-HE (also applies to 3.6T QSFP-DD XMA variant) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>
3HE13755AA	Upgrade license from 4.8Tbps 36 port QSFP-DD XMA-CR to 4.8Tbps 36 port QSFP-DD XMA-ER (also applies to aggregation mode 4.8T XMA variant) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>
3HE13756AA	Upgrade license from 4.8Tbps 36 port QSFP-DD XMA-ER to 4.8Tbps 36 port QSFP-DD XMA-HE (also applies to aggregation mode 4.8T XMA variant) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>
3HE13757AA	Upgrade license from SR-1s CR 1.6Tbps 16 port QSFP28 to SR-1s CR 2.4Tbps 24port QSFP28 <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>
3HE13758AA	Upgrade license from SR-1s ER 1.6Tbps 16 port QSFP28 to SR-1s ER 2.4Tbps 24port QSFP28 <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>

3HE13759AA	Upgrade license from SR-1s HE 1.6Tbps 16 port QSFP28 to SR-1s HE 2.4Tbps 24port QSFP28 <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>
3HE13760AA	Upgrade license to enable aggregation mode up to 3.6T / 36 ports on 2.4Tbps 24 port QSFP-28 (applies to CR, ER, HE variants) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>
3HE13761AA	Upgrade license from SR-1s CR 1.6Tbps 16 port QSFP28 to SR-1s ER 1.6Tbps 16 port QSFP28 <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>
3HE13762AA	Upgrade license from SR-1s ER 1.6Tbps 16 port QSFP28 to SR-1s HE 1.6Tbps 16 port QSFP28 <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>
3HE13763AA	Upgrade license from SR-1s CR 2.4Tbps 24 port QSFP28 to SR-1s ER 2.4Tbps 24 port QSFP28 (also applies to aggregation mode 2.4T SR-1s variant) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>
3HE13764AA	Upgrade license from SR-1s ER 2.4Tbps 24 port QSFP28 to SR-1s HE 2.4Tbps 24 port QSFP28 (also applies to aggregation mode 2.4T SR-1s variant) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>
3HE13765AA	Upgrade license from 3.6Tbps 36 port QSFP-28 SR-1s CR to 3.6Tbps 36 port QSFP-28 SR-1s ER (also applies to 3.6T QSFP-DD SR-1s variant) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>
3HE13766AA	Upgrade license from 3.6Tbps 36 port QSFP-28 SR-1s ER to 3.6Tbps 36 port QSFP-28 SR-1s HE (also applies to 3.6T QSFP-DD SR-1s variant) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>

3HE13767AA	Upgrade license to enable QSFP-DD support on 3.6Tbps 36 port QSFP-28 SR-1s (applies to CR, ER, HE variants) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>
3HE13768AA	Upgrade license from 3.6Tbps 36 port QSFP-DD SR-1s CR to 4.8Tbps 36 port QSFP-DD SR-1s CR <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>
3HE13769AA	Upgrade license from 3.6Tbps 36 port QSFP-DD SR-1s ER to 4.8Tbps 36 port QSFP-DD SR-1s ER <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>
3HE13770AA	Upgrade license from 3.6Tbps 36 port QSFP-DD SR-1s HE to 4.8Tbps 36 port QSFP-DD SR-1s HE <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>
3HE13771AA	Upgrade license from SR-1s CR 4.8Tbps 36 port QSFP-DD to SR-1s ER 4.8Tbps 36 port QSFP-DD (also applies to aggregation mode 4.8T SR-1s variant) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>
3HE13772AA	Upgrade license from SR-1s ER 4.8Tbps 36 port QSFP-DD to SR-1s HE 4.8Tbps 36 port QSFP-DD (also applies to aggregation mode 4.8T SR-1s variant) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>
3HE13773AA	Upgrade license to enable aggregation mode up to 12T on SR-1s 4.8Tbps 36 port QSFP-DD (applies to CR, ER, HE variants) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>

3HE13774AA	7750 SR-1s system, 2x FP4 complex, performance restricted to 1.6T FD, port restricted to 16-connectors Universal QSFP28. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers) This 7750 SR-1s is based off “3HE13800xA - SYS-SR-1s 2.4T 36pt QSFP28 to 3.6T DC” licensed to 1.6T throughput and 16-connectors hard license enabled. Software scale upgradeable to ER or HE feature set. Hardware performance upgradeable from 1.6T to 2.4T or 3.6T intelligent fan-in/fan-out.
3HE13774BA	7750 SR-1s system, 2x FP4 complex, performance restricted to 1.6T FD, port restricted to 16-connectors Universal QSFP28. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers) This card is based off “3HE13800xA - SYS-SR-1s 2.4T 36pt QSFP28 to 3.6T DC” licensed to 1.6T throughput and 16-connectors hard license enabled. Software scale upgradeable to HE feature set. Hardware performance upgradeable from 1.6T to 2.4T or 3.6T intelligent fan-in/fan-out.
3HE13774CA	7750 SR-1s system, 2x FP4 complex, performance restricted to 1.6T FD, port restricted to 16-connectors Universal QSFP28. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers) This 7750 SR-1s is based off “3HE13800xA - SYS-SR-1s 2.4T 36pt QSFP28 to 3.6T DC” licensed to 1.6T throughput and 16-connectors hard license enabled. Full High-Scale Edge feature set. Hardware performance upgradeable from 1.6T to 2.4T or 3.6T intelligent fan-in/fan-out.
3HE13798AA	7750 SR-1s system, 2x FP4 complex, performance restricted to 1.6T FD, port restricted to 16-connectors Universal QSFP28. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers) This 7750 SR-1s is based off “3HE13801xA - SYS-SR-1s 2.4T 36pt QSFP28 to 3.6T AC/HVDC” licensed to 1.6T throughput and 16-connectors hard license enabled. Software scale upgradeable to ER or HE feature set. Hardware performance upgradeable from 1.6T to 2.4T or 3.6T intelligent fan-in/fan-out.

3HE13798BA	7750 SR-1s system, 2x FP4 complex, performance restricted to 1.6T FD, port restricted to 16-connectors Universal QSFP28. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers) This card is based off “3HE13801xA - SYS-SR-1s 2.4T 36pt QSFP28 to 3.6T AC/HVDC” licensed to 1.6T throughput and 16-connectors hard license enabled. Software scale upgradeable to ER or HE feature set. Hardware performance upgradeable from 1.6T to 2.4T or 3.6T intelligent fan-in/fan-out.
3HE13798CA	7750 SR-1s system, 2x FP4 complex, performance restricted to 1.6T FD, port restricted to 16-connectors Universal QSFP28. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers) This 7750 SR-1s is based off “3HE13801xA - SYS-SR-1s 2.4T 36pt QSFP28 to 3.6T AC/HVDC” licensed to 1.6T throughput and 16-connectors hard license enabled. Full High-Scale Edge feature set. Hardware performance upgradeable from 1.6T to 2.4T or 3.6T intelligent fan-in/fan-out.
3HE13799AA	7750 SR-1s system, 2x FP4 complex, performance restricted to 2.4T FD, port restricted to 24-connectors Universal QSFP28. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers) This 7750 SR-1s is based off “3HE13801xA - SYS-SR-1s 2.4T 36pt QSFP28 to 3.6T AC/HVDC” licensed to 2.4T throughput and 24-connectors hard license enabled. Software scale upgradeable to ER or HE feature set. Hardware performance upgradeable from 2.4T to 3.6T intelligent fan-in/fan-out.
3HE13799BA	7750 SR-1s system, 2x FP4 complex, performance restricted to 2.4T FD, port restricted to 24-connectors Universal QSFP28. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers) This card is based off “3HE13801xA - SYS-SR-1s 2.4T 36pt QSFP28 to 3.6T AC/HVDC” licensed to 2.4T throughput and 24-connectors hard license enabled. Software scale upgradeable to ER or HE feature set. Hardware performance upgradeable from 2.4T to 3.6T intelligent fan-in/fan-out.

3HE13799CA	7750 SR-1s system, 2x FP4 complex, performance restricted to 2.4T FD, port restricted to 24-connectors Universal QSFP28. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers) This 7750 SR-1s is based off “3HE13801xA - SYS-SR-1s 2.4T 36pt QSFP28 to 3.6T AC/HVDC” licensed to 2.4T throughput and 24-connectors hard license enabled. Full High-Scale Edge feature set. Hardware performance upgradeable from 2.4T to 3.6T intelligent fan-in/fan-out.
3HE13800AA	7750 SR-1s system, 2x FP4 complex, performance to 2.4T FD, Aggregation mode up to 36-connectors Universal QSFP28. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers) Software scale upgradeable to ER or HE feature set. Hardware performance up to 3.6T intelligent fan-in/fan-out
3HE13800BA	7750 SR-1s system, 2x FP4 complex, performance to 2.4T FD, Aggregation mode up to 36-connectors Universal QSFP28. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers) Software scale upgradeable to HE feature set. Hardware performance up to 3.6T intelligent fan-in/fan-out.
3HE13800CA	7750 SR-1s system, 2x FP4 complex, performance to 2.4T FD, Aggregation mode up to 36-connectors Universal QSFP28. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers) Full High-Scale Edge feature set. Hardware performance up to 3.6T intelligent fan-in/fan-out.
3HE13801AA	7750 SR-1s system, 2x FP4 complex, performance to 2.4T FD, Aggregation mode up to 36-connectors Universal QSFP28. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers) Software scale upgradeable to ER or HE feature set. Hardware performance up to 3.6T intelligent fan-in/fan-out
3HE13801BA	7750 SR-1s system, 2x FP4 complex, performance to 2.4T FD, Aggregation mode up to 36-connectors Universal QSFP28. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers) Software scale upgradeable to HE feature set. Hardware performance up to 3.6T intelligent fan-in/fan-out.
3HE13801CA	7750 SR-1s system, 2x FP4 complex, performance to 2.4T FD, Aggregation mode up to 36-connectors Universal QSFP28. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers) Full High-Scale Edge feature set. Hardware performance up to 3.6T intelligent fan-in/fan-out.

3HE13802AA	7750 SR-1s system, 4x FP4 complex, performance restricted to 3.6T FD, port restricted to 36-connectors Universal QSFP28. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers) This 7750 SR-1s is based off “3HE13808xA - SYS-SR-1s 4.8T 36pt QSFP-DD to 12T DC” licensed to 3.6T throughput and 36-connectors hard license enabled. Software scale upgradeable to ER or HE feature set. Hardware performance upgradeable from 3.6T to 4.8T or 12T intelligent fan-in/fan-out.
3HE13802BA	7750 SR-1s system, 4x FP4 complex, performance restricted to 3.6T FD, port restricted to 36-connectors Universal QSFP28. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers) This card is based off “3HE13808xA - SYS-SR-1s 4.8T 36pt QSFP-DD to 12T DC” licensed to 3.6T throughput and 36-connectors hard license enabled. Software scale upgradeable to HE feature set. Hardware performance upgradeable from 3.6T to 4.8T or 12T intelligent fan-in/fan-out.
3HE13802CA	7750 SR-1s system, 4x FP4 complex, performance restricted to 3.6T FD, port restricted to 36-connectors Universal QSFP28. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers) This 7750 SR-1s is based off “3HE13808xA - SYS-SR-1s 4.8T 36pt QSFP-DD to 12T DC” licensed to 3.6T throughput and 36-connectors hard license enabled. Full High-Scale Edge feature set. Hardware performance upgradeable from 3.6T to 4.8T or 12T intelligent fan-in/fan-out.
3HE13803AA	7750 SR-1s system, 4x FP4 complex, performance restricted to 3.6T FD, port restricted to 36-connectors Universal QSFP28. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers) This 7750 SR-1s is based off “3HE13809AA - SYS-SR-1s 4.8T 36pt QSFP-DD to 12T AC/HVDC” licensed to 3.6T throughput and 36-connectors hard license enabled. Software scale upgradeable to ER or HE feature set. Hardware performance upgradeable from 3.6T to 4.8T or 12T intelligent fan-in/fan-out.

3HE13803BA	7750 SR-1s system, 4x FP4 complex, performance restricted to 3.6T FD, port restricted to 36-connectors Universal QSFP28. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers) This card is based off “3HE13809AA - SYS-SR-1s 4.8T 36pt QSFP-DD CR to 12T AC/HVDC” licensed to 3.6T throughput and 36-connectors hard license enabled. Software scale upgradeable to HE feature set. Hardware performance upgradeable from 3.6T to 4.8T or 12T intelligent fan-in/fan-out.
3HE13803CA	7750 SR-1s system, 4x FP4 complex, performance restricted to 3.6T FD, port restricted to 36-connectors Universal QSFP28. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers) This 7750 SR-1s is based off “3HE13809AA - SYS-SR-1s 4.8T 36pt QSFP-DD CR to 12T AC/HVDC” licensed to 3.6T throughput and 36-connectors hard license enabled. Full High-Scale Edge feature set. Hardware performance upgradeable from 3.6T to 4.8T or 12T intelligent fan-in/fan-out.
3HE13804AA	7750 SR-1s system, 4x FP4 complex, performance restricted to 3.6T FD, port restricted to 36-connectors Universal QSFP28-DD. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers) This 7750 SR-1s is based off “3HE13808xA - SYS-SR-1s 4.8T 36pt QSFP-DD to 12T DC” licensed to 3.6T throughput and 36-connectors hard license enabled. Software scale upgradeable to ER or HE feature set. Hardware performance upgradeable from 3.6T to 4.8T or 12T intelligent fan-in/fan-out.
3HE13804BA	7750 SR-1s system, 4x FP4 complex, performance restricted to 3.6T FD, port restricted to 36-connectors Universal QSFP28. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers) This card is based off “3HE13808xA - SYS-SR-1s 4.8T 36pt QSFP-DD to 12T DC” licensed to 3.6T throughput and 36-connectors hard license enabled. Software scale upgradeable to HE feature set. Hardware performance upgradeable from 3.6T to 4.8T or 12T intelligent fan-in/fan-out.

3HE13804CA	7750 SR-1s system, 4x FP4 complex, performance restricted to 3.6T FD, port restricted to 36-connectors Universal QSFP28-DD. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers) This 7750 SR-1s is based off “3HE13808xA - SYS-SR-1s 4.8T 36pt QSFP-DD to 12T DC” licensed to 3.6T throughput and 36-connectors hard license enabled. Full High-Scale Edge feature set. Hardware performance upgradeable from 3.6T to 4.8T or 12T intelligent fan-in/fan-out.
3HE13805AA	7750 SR-1s system, 4x FP4 complex, performance restricted to 3.6T FD, port restricted to 36-connectors Universal QSFP28-DD. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers) This 7750 SR-1s is based off “3HE13809AA - SYS-SR-1s 4.8T 36pt QSFP-DD to 12T AC/HVDC” licensed to 3.6T throughput and 36-connectors hard license enabled. Software scale upgradeable to ER or HE feature set. Hardware performance upgradeable from 3.6T to 4.8T or 12T intelligent fan-in/fan-out.
3HE13805BA	7750 SR-1s system, 4x FP4 complex, performance restricted to 3.6T FD, port restricted to 36-connectors Universal QSFP28-DD. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers) This card is based off “3HE13809AA - SYS-SR-1s 4.8T 36pt QSFP-DD CR to 12T AC/HVDC” licensed to 3.6T throughput and 36-connectors hard license enabled. Software scale upgradeable to HE feature set. Hardware performance upgradeable from 3.6T to 4.8T or 12T intelligent fan-in/fan-out.
3HE13805CA	7750 SR-1s system, 4x FP4 complex, performance restricted to 3.6T FD, port restricted to 36-connectors Universal QSFP28. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers) This 7750 SR-1s is based off “3HE13809AA - SYS-SR-1s 4.8T 36pt QSFP-DD CR to 12T AC/HVDC” licensed to 3.6T throughput and 36-connectors hard license enabled. Full High-Scale Edge feature set. Hardware performance upgradeable from 3.6T to 4.8T or 12T intelligent fan-in/fan-out.

3HE13806AA	7750 SR-1s, 4x FP4 complex, performance restricted to 4.8T FD, port restricted to 36-connectors Universal QSFP-DD. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers) This 7750 SR-1s is based off “3HE13808xA - SYS-SR-1s 4.8T 36pt QSFP-DD to 12T DC” licensed to 4.8T throughput and 36-connectors hard license enabled. Software scale upgradeable to ER or HE feature set. Hardware performance upgradeable from 4.8T to 12T intelligent fan-in/fan-out.
3HE13806BA	7750 SR-1s system, 4x FP4 complex, performance restricted to 4.8T FD, port restricted to 36-connectors Universal QSFP-DD. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers) This card is based off “3HE13808xA - SYS-SR-1s 4.8T 36pt QSFP-DD to 12T DC” licensed to 4.8T throughput and 36-connectors hard license enabled. Software scale upgradeable to HE feature set. Hardware performance upgradeable from 4.8T to 12T intelligent fan-in/fan-out.
3HE13806CA	7750 SR-1s system, 4x FP4 complex, performance restricted to 4.8T FD, port restricted to 36-connectors Universal QSFP-DD. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers) This 7750 SR-1s is based off “3HE13808xA - SYS-SR-1s 4.8T 36pt QSFP-DD to 12T DC” licensed to 4.8T throughput and 36-connectors hard license enabled. Full High-Scale Edge feature set. Hardware performance upgradeable from 4.8T to 12T intelligent fan-in/fan-out.
3HE13807AA	7750 SR-1s, 4x FP4 complex, performance restricted to 4.8T FD, port restricted to 36-connectors Universal QSFP-DD. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers) This 7750 SR-1s is based off “3HE13809AA - SYS-SR-1s 4.8T 36pt QSFP-DD to 12T AC/HVDC” licensed to 4.8T throughput and 36-connectors hard license enabled. Software scale upgradeable to ER or HE feature set. Hardware performance upgradeable from 4.8T to 12T intelligent fan-in/fan-out.

3HE13807BA	7750 SR-1s system, 4x FP4 complex, performance restricted to 4.8T FD, port restricted to 36-connectors Universal QSFP-DD. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers) This card is based off “3HE13809AA - SYS-SR-1s 4.8T 36pt QSFP-DD CR to 12T AC/HVDC” licensed to 4.8T throughput and 36-connectors hard license enabled. Software scale upgradeable to HE feature set. Hardware performance upgradeable from 4.8T to 12T intelligent fan-in/fan-out.
3HE13807CA	7750 SR-1s system, 4x FP4 complex, performance restricted to 4.8T FD, port restricted to 36-connectors Universal QSFP28. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers) This 7750 SR-1s is based off “3HE13809AA - SYS-SR-1s 4.8T 36pt QSFP-DD CR to 12T AC/HVDC” licensed to 4.8T throughput and 36-connectors hard license enabled. Full High-Scale Edge feature set. Hardware performance upgradeable from 4.8T to 12T intelligent fan-in/fan-out.
3HE13808AA	7750 SR-1s system, 4x FP4 complex, performance to 4.8T FD, Aggregation mode up to 12T, 36-connectors Universal QSFP-DD. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers) Software scale upgradeable to ER or HE feature set. Hardware performance up to 12T intelligent fan-in/fan-out
3HE13808BA	7750 SR-1s system, 4x FP4 complex, performance to 4.8T FD, Aggregation mode up to 12T, 36-connectors Universal QSFP-DD. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers) Software scale upgradeable to HE feature set. ~~Hardware performance up to 12T intelligent fan-in/fan-out.~~
3HE13808CA	7750 SR-1s system, 4x FP4 complex, performance to 4.8T FD, Aggregation mode up to 12T, to 36-connectors Universal QSFP-DD. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers) Full High-Scale Edge feature set. ~~Hardware performance up to 12T intelligent fan-in/fan-out.~~
3HE13809AA	7750 SR-1s system, 4x FP4 complex, performance to 4.8T FD, Aggregation mode up to 12T, 36-connectors Universal QSFP-DD. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers) Software scale upgradeable to ER or HE feature set. Hardware performance up to 12T intelligent fan-in/fan-out

3HE13809BA	7750 SR-1s system, 4x FP4 complex, performance to 4.8T FD, Aggregation mode up to 12T, 36-connectors Universal QSFP-DD. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers) Software scale upgradeable to HE feature set. <u>Hardware performance up to 12T intelligent fan-in/fan-out.</u>
3HE13809CA	7750 SR-1s system, 4x FP4 complex, performance to 4.8T FD, Aggregation mode up to 12T, 36-connectors Universal QSFP-DD. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers) Full High-Scale Edge feature set. <u>Hardware performance up to 12T intelligent fan-in/fan-out.</u>
3HE13813AA	7750 SR-1s + LVDC Power Shelf Bundle, 1.6T 16-port QSFP28 (supported QSFP+/QSFP28) Core Router feature set; Includes the following; (1) 3HE13774AA - SYS - SR-1s 1.6T 16pt QSFP28 - CR + LVDC (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module (2) 3HE11185AA - PSU - LVDC 6kw Power Supply 7750 SR-1s, 2x FP4 complex, performance restricted to 1.6T FD, port restricted to 16-connectors Universal QSFP28. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers) This 7750 SR-1s is based off “3HE13800xA - SYS-SR-1s 2.4T 36pt QSFP28 to 3.6T DC” licensed to 1.6T throughput and 16-connectors hard license enabled. Software scale upgradeable to ER or HE feature set. Hardware performance upgradeable from 1.6T to 2.4T or 3.6T intelligent fan-in/fan-out.
3HE13813BA	7750 SR-1s + LVDC Power Shelf Bundle, 1.6T 16-port QSFP28 (supported QSFP+/QSFP28) Edge Router feature set: Includes the following; (1) 3HE13774BA - SYS - SR-1s 1.6T 16pt QSFP28 - ER + LVDC (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module (2) 3HE11185AA - PSU - LVDC 6kw Power Supply 7750 SR-1s system, 2x FP4 complex, performance restricted to 1.6T FD, port restricted to 16-connectors Universal QSFP28. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers) This card is based off “3HE13800xA - SYS-SR-1s 2.4T 36pt QSFP28 to 3.6T DC” licensed to 1.6T throughput and 16-connectors hard license enabled. Software scale upgradeable to HE feature set. Hardware performance upgradeable from 1.6T to 2.4T or 3.6T intelligent fan-in/fan-out.

3HE13813CA	7750 SR-1s + LVDC Power Shelf Bundle, 1.6T 16-port QSFP28 (supported QSFP+/QSFP28) High Scale Edge feature set; Includes the following; (1) 3HE13774CA - SYS - SR-1s 1.6T 16pt QSFP28 HE + LVDC (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module (2) 3HE11185AA - PSU - LVDC 6kw Power Supply 7750 SR-1s system, 2x FP4 complex, performance restricted to 1.6T FD, port restricted to 16-connectors Universal QSFP28. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers) This 7750 SR-1s is based off “3HE13800xA - SYS-SR-1s 2.4T 36pt QSFP28 to 3.6T DC” licensed to 1.6T throughput and 16-connectors hard license enabled. Full High-Scale Edge feature set. Hardware performance upgradeable from 1.6T to 2.4T or 3.6T intelligent fan-in/fan-out.
3HE13814AA	7750 SR-1s + AC/HVDC Power Shelf, 1.6T 16-connector QSFP28 (supported QSFP+/QSFP28) Core Router feature set; Includes the following; (1) 3HE13798AA - SYS - SR-1s 1.6T 16pt QSFP28 CR AC/HVDC (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module (2) 3HE11183AA - PSU - AC/HVDC 6kw Power Supply 7750 SR-1s, 2x FP4 complex, performance restricted to 1.6T FD, port restricted to 16-connectors Universal QSFP28. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers) This 7750 SR-1s is based off “3HE13801xA - SYS-SR-1s 2.4T 36pt QSFP28 to 3.6T AC/HVDC” licensed to 1.6T throughput and 16-connectors hard license enabled. Software scale upgradeable to ER or HE feature set. Hardware performance upgradeable from 1.6T to 2.4T or 3.6T intelligent fan-in/fan-out.

3HE13814BA	7750 SR-1s + AC/HVDC Power Shelf Bundle, 1.6T 16-port QSFP28 (supported QSFP+/QSFP28) Edge Router feature set; Includes the following; (1) 3HE13798BA - SYS - SR-1s 1.6T 16pt QSFP28 ER AC/HVDC (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module (2) 3HE11183AA - PSU - AC/HVDC 6kw Power Supply 7750 SR-1s system, 2x FP4 complex, performance restricted to 1.6T FD, port restricted to 16-connectors Universal QSFP28. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers) This card is based off “3HE13801xA - SYS-SR-1s 2.4T 36pt QSFP28 to 3.6T AC/HVDC” licensed to 1.6T throughput and 16-connectors hard license enabled. Software scale upgradeable to ER or HE feature set. Hardware performance upgradeable from 1.6T to 2.4T or 3.6T intelligent fan-in/fan-out.
3HE13814CA	7750 SR-1s + AC/HVDC Power Shelf Bundle, 1.6T 16-port QSFP28 (supported QSFP+/QSFP28) High Scale Edge feature set; Includes the following; (1) 3HE13798CA - SYS - SR-1s 1.6T 16pt QSFP28 HE AC/HVDC (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module (2) 3HE11183AA - PSU - AC/HVDC 6kw Power Supply 7750 SR-1s system, 2x FP4 complex, performance restricted to 1.6T FD, port restricted to 16-connectors Universal QSFP28. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers) This 7750 SR-1s is based off “3HE13801xA - SYS-SR-1s 2.4T 36pt QSFP28 to 3.6T AC/HVDC” licensed to 1.6T throughput and 16-connectors hard license enabled. Full High-Scale Edge feature set. Hardware performance upgradeable from 1.6T to 2.4T or 3.6T intelligent fan-in/fan-out.
3HE13815AA	7750 SR-1s + LVDC Power Shelf Bundle, 2.4T 36-port QSFP28 (supported QSFP+/QSFP28) Aggregation mode to 3.6T, Core Router feature set; Includes the following; (1) 3HE13800AA - SYS - SR-1s 2.4T 36pt QSFP28 CR to 3.6T DC (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module (2) 3HE11185AA - PSU - LVDC 6kw Power Supply 7750 SR-1s system, 2x FP4 complex, performance to 2.4T FD, Aggregation mode up to 36-connectors Universal QSFP28. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers) Software scale upgradeable to ER or HE feature set. Hardware performance up to 3.6T intelligent fan-in/fan-out

3HE13815BA	~~7750 SR-1s + LVDC Power Shelf Bundle, 2.4T 36-port QSFP28 (supported QSFP+/QSFP28) Aggregation mode to 3.6T, Edge Router feature set:~~ Includes the following; (1) 3HE13800BA - SYS - SR-1s 2.4T 36pt QSFP28 ER to 3.6T DC (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module (2) 3HE11185AA - PSU - LVDC 6kw Power Supply 7750 SR-1s system, 2x FP4 complex, performance to 2.4T FD, Aggregation mode up to 3.6T, 36-connectors Universal QSFP28. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers) Software scale upgradeable to HE feature set. ~~Hardware performance up to 3.6T intelligent fan-in/fan-out~~
3HE13815CA	~~7750 SR-1s + LVDC Power Shelf Bundle, 2.4T 36-port QSFP28 (supported QSFP+/QSFP28) Aggregation mode to 3.6T, High Scale Edge feature set;~~ Includes the following; (1) 3HE13800CA - SYS - SR-1s 2.4T 36pt QSFP28 HE to 3.6T DC (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module (2) 3HE11185AA - PSU - LVDC 6kw Power Supply 7750 SR-1s system, 2x FP4 complex, performance to 2.4T FD, Aggregation mode up to 3.6T, 36-connectors Universal QSFP28. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers) Full High-Scale Edge feature set. ~~Hardware performance up to 3.6T intelligent fan-in/fan-out~~
3HE13816AA	7750 SR-1s + AC/HVDC Power Shelf, 2.4T 36-port QSFP28 (supported QSFP+/QSFP28) Aggregation mode to 3.6T, Core Router feature set; Includes the following; (1) 3HE13801AA - SYS - SR-1s 2.4T 36pt QSFP28 CR to 3.6T AC/HVDC (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module (2) 3HE11183AA - PSU - AC/HVDC 6kw Power Supply 7750 SR-1s system, 2x FP4 complex, performance to 2.4T FD, Aggregation mode up to 3.6T, 36-connectors Universal QSFP28. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers) Software scale upgradeable to ER or HE feature set. Hardware performance up to 3.6T intelligent fan-in/fan-out

3HE13816BA	7750 SR-1s + AC/HVDC Power Shelf, 2.4T 36-port QSFP28 (supported QSFP+/QSFP28) Aggregation mode to 3.6T, Core Router feature set; Includes the following; (1) 3HE13801BA - SYS - SR-1s 2.4T 36pt QSFP28 ER to 3.6T AC/HVDC (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module (2) 3HE11183AA - PSU - AC/HVDC 6kw Power Supply 7750 SR-1s system, 2x FP4 complex, performance to 2.4T FD, Aggregation mode up to 3.6T, 36-connectors Universal QSFP28. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers) Software scale upgradeable to HE feature set. ~~Hardware performance up to 3.6T intelligent fan in/fan out.~~
3HE13816CA	7750 SR-1s + AC/HVDC Power Shelf, 2.4T 36-port QSFP28 (supported QSFP+/QSFP28) Aggregation mode to 3.6T, Core Router feature set; Includes the following; (1) 3HE13801CA - SYS - SR-1s 2.4T 36pt QSFP28 HE to 3.6T AC/HVDC (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module (2) 3HE11183AA - PSU - AC/HVDC 6kw Power Supply 7750 SR-1s system, 2x FP4 complex, performance to 2.4T FD, Aggregation mode up to 3.6T, 36-connectors Universal QSFP28. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers) Full High-Scale Edge feature set. ~~Hardware performance up to 3.6T intelligent fan in/fan out.~~
3HE13817AA	7750 SR-1s + LVDC Power Shelf Bundle, 3.6T 36-port QSFP28 (supported QSFP+/QSFP28), Core Router feature set; Includes the following; (1) 3HE13802AA - SYS - SR-1s 3.6T 36pt QSFP28 CR LVDC (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module (2) 3HE11185AA - PSU - LVDC 6kw Power Supply 7750 SR-1s, 4x FP4 complex, performance restricted to 3.6T FD, port restricted to 36-connectors Universal QSFP28. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers) This 7750 SR-1s is based off "3HE13808xA - SYS-SR-1s 4.8T 36pt QSFP-DD to 12T DC" licensed to 3.6T throughput and 36-connectors hard license enabled. Software scale upgradeable to ER or HE feature set. Hardware performance upgradeable from 3.6T to 4.8T or 12T intelligent fan-in/fan-out.

3HE13817BA	7750 SR-1s + LVDC Power Shelf Bundle, 3.6T 36-port QSFP28 (supported QSFP+/QSFP28), Edge Router feature set: Includes the following; (1) 3HE13802BA - SYS - SR-1s 3.6T 36pt QSFP28 ER LVDC (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module (2) 3HE11185AA - PSU - LVDC 6kw Power Supply 7750 SR-1s system, 4x FP4 complex, performance restricted to 3.6T FD, port restricted to 36-connectors Universal QSFP28. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers) This card is based off “3HE13808xA - SYS-SR-1s 4.8T 36pt QSFP-DD to 12T DC” licensed to 3.6T throughput and 36-connectors hard license enabled. Software scale upgradeable to HE feature set. Hardware performance upgradeable from 3.6T to 4.8T or 12T intelligent fan-in/fan-out.
3HE13817CA	7750 SR-1s + LVDC Power Shelf Bundle, 3.6T 36-port QSFP28 (supported QSFP+/QSFP28), High Scale Edge feature set; Includes the following; (1) 3HE13802CA - SYS - SR-1s 3.6T 36pt QSFP28 HE LVDC (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module (2) 3HE11185AA - PSU - LVDC 6kw Power Supply 7750 SR-1s system, 4x FP4 complex, performance restricted to 3.6T FD, port restricted to 36-connectors Universal QSFP28. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers) This 7750 SR-1s is based off “3HE13808xA - SYS-SR-1s 4.8T 36pt QSFP-DD to 12T DC” licensed to 3.6T throughput and 36-connectors hard license enabled. Full High-Scale Edge feature set. Hardware performance upgradeable from 3.6T to 4.8T or 12T intelligent fan-in/fan-out.

3HE13818AA	7750 SR-1s + AC/HVDC Power Shelf Bundle, 3.6T 36-port QSFP28 (supported QSFP+/QSFP28), Core Router feature set; Includes the following; (1) 3HE13803AA - SYS - SR-1s 3.6T 36pt QSFP28 CR AC/HVDC (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module (2) 3HE11183AA - PSU - AC/HVDC 6kw Power Supply 7750 SR-1s, 4x FP4 complex, performance restricted to 3.6T FD, port restricted to 36-connectors Universal QSFP28. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers) This 7750 SR-1s is based off “3HE13809AA - SYS-SR-1s 4.8T 36pt QSFP-DD to 12T AC/HVDC” licensed to 3.6T throughput and 36-connectors hard license enabled. Software scale upgradeable to ER or HE feature set. Hardware performance upgradeable from 3.6T to 4.8T or 12T intelligent fan-in/fan-out.
3HE13818BA	7750 SR-1s + AC/HVDC Power Shelf Bundle, 3.6T 36-port QSFP28 (supported QSFP+/QSFP28), Edge Router feature set: Includes the following; (1) 3HE13803BA - SYS - SR-1s 3.6T 36pt QSFP28 ER AC/HVDC (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module (2) 3HE11183AA - PSU - AC/HVDC 6kw Power Supply 7750 SR-1s system, 4x FP4 complex, performance restricted to 3.6T FD, port restricted to 36-connectors Universal QSFP28. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers) This card is based off “3HE13809AA - SYS-SR-1s 4.8T 36pt QSFP-DD CR to 12T AC/HVDC” licensed to 3.6T throughput and 36-connectors hard license enabled. Software scale upgradeable to HE feature set. Hardware performance upgradeable from 3.6T to 4.8T or 12T intelligent fan-in/fan-out.

3HE13818CA	7750 SR-1s + AC/HVDC Power Shelf Bundle, 3.6T 36-port QSFP28 (supported QSFP+/QSFP28), Edge Router feature set: Includes the following; (1) 3HE13803CA - SYS - SR-1s 3.6T 36pt QSFP28 HE AC/HVDC (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module (2) 3HE11183AA - PSU - AC/HVDC 6kw Power Supply 7750 SR-1s system, 4x FP4 complex, performance restricted to 3.6T FD, port restricted to 36-connectors Universal QSFP28. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers) This 7750 SR-1s is based off “3HE13809AA - SYS-SR-1s 4.8T 36pt QSFP-DD CR to 12T AC/HVDC” licensed to 3.6T throughput and 36-connectors hard license enabled. Full High-Scale Edge feature set. Hardware performance upgradeable from 3.6T to 4.8T or 12T intelligent fan-
3HE13825AA	SROS VPRN Service Right To Use License. A per system license. Allows the use of up to 64 VPRN Services. Not controlled by this license: Number of queues or policers, number of SAPs or the number of IES service instances.
3HE13826AA	SROS VPRN Service Right To Use License. A per system license. Allows the use of up to 512 VPRN Services. Not controlled by this license: Number of queues or policers, number of SAPs or the number of IES service instances.
3HE13827AA	SROS VPRN Service Right To Use License. A per system license. Allows the use of up to 2,000 VPRN Services. Not controlled by this license: Number of queues or policers, number of SAPs or the number of IES service instances.
3HE13828AA	SROS VPRN Service Right To Use License. A per system license. Allows the use of up to 5,000 VPRN Services. Not controlled by this license: Number of queues or policers, number of SAPs or the number of IES service instances.
3HE13829AA	SROS VPRN Service Right To Use License. A per system license. Allows the use of up to 10,000 VPRN Services. Not controlled by this license: Number of queues or policers, number of SAPs or the number of IES service instances.
3HE13830AA	SROS EVPN Service Right To Use License. A per system license. Allows the use of EVPN for VXLAN and/or MPLS tunnels.
3HE13831AA	SROS BGP Route Reflector Low-Scale Right To Use License. A per system license. Allows the use of BGP RR support for up to 100k routes.
3HE13832AA	SROS BGP Route Reflector High-Scale Right To Use License. A per system license. Allows the use of BGP RR support for up to maximum system scale.
3HE13833AA	SROS BGP Optimal Route Reflection Right To Use License. A per system license.

3HE13834AA	SROS BGP Inter-AS Peering Low-Scale Right To Use License. A per system license. Enables support for EBGP peers for up to 100k routes.
3HE13835AA	SROS BGP Inter-AS Peering High-Scale Right To Use License. A per system license. Enables support for EBGP peers for up to maximum system scale.
3HE13836AA	SROS BGP FlowSpec Right To Use License. A per system license. Enables support for BGP FlowSpec.
3HE13837AA	SROS BGP QPPB and Policy Accounting Right To Use License. A per system license. Enables support for BGP QPPB and Policy Accounting.
3HE13838AA	SROS BGP Multicast Right To Use License. A per system license. Enables support for BGP Multicast. License required to configure any of the following address families: mcast-ipv4, mvpn-ipv4, mdt-safi, mcast-vpn-ipv4, mvpn-ipv6, mcast-ipv6, mcast-vpn-ipv6
3HE13839AA	SROS Lawful Intercept (LI) Right To Use License. A per system license. Allows the use of the Lawful Intercept features.
3HE13840AA	SROS vRGW Home LAN Extension License – A per system license required to enable home the LAN Extension feature with vRGW.
3HE13841AA	SROS DHCP Server User Database License - A per system license. License required for IP address assignment using the Service Router DHCP Server User Database (also required when used with ESM).
3HE13842AA	SROS DHCP Server User Database License - A per system license. Up to 10K IP Addresses - License required for IP address assignment using the Service Router DHCP Server User Database. Multiple of these RTUs can be bought to match the total number of IP Addresses required to be allocated by the server. This RTU is not required with ESM host licenses.
3HE13847AA	7750 SR-7s DC Complete chassis bundle, shipped with all common hardware. Control Redundant. Includes: (1) 3HE11905AA - CHAS - 7750 SR-7s CHASSIS, (1) 3HE12314AA - CMA - 7750 SR-7s DUAL, (2) 3HE11304AA - CPM - 7750 SR-s CPM-7s/14s, (4) 3HE11315AA - SFM - 7750 SR-7s/14s, (4) 3HE11312AA - FAN - 7750 SR-7s/14s FAN TRAY , (1) 3HE11180AA - CHAS - 7750 SR-7s/14s LVDC POWER SHELF, (3) 3HE11185AA - PSU - LVDC 6kw POWER SUPPLY, (1) 3HE11181AA - COM - 7750 SR-7s/14s COMMUNICATION CARD Note: LVDC Power Shelf includes the filler panels for the PSU. Additional items in which will need to be purchased separately are; Impedance Panels in all empty slots (XCM-s, XMA-s, CPM-s), LVDC power shelf accessory kit and power lug kit, and optional air filter door kit. Chassis accessory kit included

3HE13848AA	7750 SR-14s DC complete chassis bundle, shipped with all common hardware. Includes: (1) 3HE11301AA - CHAS - 7750 SR-14s CHASSIS, (1) 3HE12315AA - CMA - 7750 SR-14s, (2) 3HE11304AA - CPM - 7750 SR-s CPM-7s/14s, (8) 3HE11315AA - SFM - 7750 SR-7s/14s, (8) 3HE11312AA - FAN - 7750 SR-7s/14s FAN TRAY, (1) 3HE11180AA - CHAS - 7750 SR-7s/14s LVDC POWER SHELF, (5) 3HE11185AA - PSU - LVDC 6kw POWER SUPPLY, (1) 3HE11181AA - COM - 7750 SR-7s/14s COMMUNICATION CARD Note: LVDC Power Shelf includes the filler panels for the PSU. Additional items in which will need to be purchased separately are; Impedance Panels in all empty slots (XCM-s, XMA-s, CPM-s), LVDC power shelf accessory kit and power lug kit, and optional air filter door kit. ~~Chassis accessory kit included~~
3HE13853AA	2-ports 100GBase CWD4 QSP28-DD Optic Module, 2KM, SMF, CS connector, RoHS 6/6, Digital Diagnostic Monitor (DDM), 0/70C
3HE13854AA	2-ports 100GBase SR4 QSP28-DD Optic Module, 100M, MMF, MPO connector, RoHS 6/6, Digital Diagnostic Monitor (DDM), 0/70C
3HE13856AA	SROS Enhanced Subscriber Management (ESM) subscriber-host license for up to 512K subscriber-hosts. This is a per system license. Multiple of these RTUs could be bought to match the total number of subscribers targeted to be supported on the chassis.
3HE13859AA	SROS Software license to enable Hybrid Access Gateway function to terminate both a fixed (IPoE/PPPoE) connection and a mobile (4G/LTE) connection from an Hybrid CPE (HCPE), with a single IP address per bonded connection, and a configurable adaptive path selection for traffic flows towards the HCPE. This is a per system license.
3HE13860AA	SROS Software license required to terminate 4G/LTE access from fixed CPEs. This is a per system license.
3HE13861AA	SROS Software license required for terminating dual-stack GTP sessions in increment of 10,000 sessions. This is a per system license.
3HE13889AA	7750 SR-1s/2s/7s/14s DC PSU slot filler panel for the Power Shelf
3HE13890AA	7750 SR-1s/2s/7s/14sAC/HVDC PSU slot filler panel for the Power Shelf
3HE13895AA	Optical patch panel 1RU holder to host 4 pluggable modules
3HE13896AA	1x MPO-12 to 6 (4 used) duplex LC breakout, MMF
3HE13897AA	1x MPO-12 to 6 (4 used) duplex LC breakout, SMF
3HE13944AA	1x MPO-24 to 12 (10 used) duplex LC breakout, MMF
3HE13945AA	1xMPO-24 to 12 (10 used) duplex LC breakout, SMF
3HE13950AA	24F SMF MPO-MPO Patch Cable, 10M
3HE13951AA	24F MMF MPO-24 to MPO-24 jumper, 10M
3HE13952AA	12F SFM MPO-12 to MPO-12 jumper, 10M
3HE13953AA	12F MMF MPO-12 to MPO-12 jumper, 10M

3HE13955AA	7750 SR 3-ports CFP2-DCO MDA-e-XP. Accepts three (3) Optic Module CFP2/CFP2-DCO 7750 SR-7/12-B 3-port CFP2-DCO MDA-e-XP on the SR-7/12-B chassis specifically: • Up to 2x MDA-e-XP 3-port CFP2-DCOs per IOM5-e • With two of these MDA-e-XPs in place, optics options are: –3x CFP2 (@100G each) in potentially all 6 ports, or–1x CFP2-DCO in the middle position on each of the two MDA-e-XPs for a total of 2x 200G ports
3HE13956AA	7750 SR-s XMA (Expandable Media Adapter), 3x FP4 complex, performance restricted to 3.6T FD, port restricted to 36-connectors Universal QSFP28. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers) <u>This is a non-upgradeable 3 Complex XMA-s</u>
3HE13956BA	7750 SR-s XMA (Expandable Media Adapter), 3x FP4 complex, performance restricted to 3.6T FD, port restricted to 36-connectors Universal QSFP28. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers) <u>This is a non-upgradeable 3 Complex XMA-s</u>
3HE13956CA	7750 SR-s XMA (Expandable Media Adapter), 3x FP4 complex, performance restricted to 3.6T FD, port restricted to 36-connectors Universal QSFP28. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers) <u>This is a non-upgradeable 3 Complex XMA-s</u>
3HE13957AA	Upgrade license from 1.6Tbps 16 port QSFP28 XMA-CR to 2.4Tbps 24port QSFP28 XMA-CR <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>
3HE13988AA	SROS license for 64k to 256k ACL entries per router, this is a per system license. Network size 1 is a network of 1 to 5 routers total.
3HE13989AA	SROS license for 64k to 256k ACL entries per router, this is a per system license. Network size 2 is a network of 6 to 25 routers total.
3HE13990AA	SROS license for 64k to 256k ACL entries per router, this is a per system license. Network size 3 is a network of 26 to 50 or more routers total.
3HE13991AA	SROS license for 64k to 512k ACL entries per router, this is a per system license. Network size 1 is a network of 1 to 5 routers total.
3HE13992AA	SROS license for 64k to 512k ACL entries per router, this is a per system license. Network size 2 is a network of 6 to 25 routers total.
3HE13993AA	SROS license for 64k to 512k ACL entries per router, this is a per system license. Network size 3 is a network of 26 to 50 or more routers total.
3HE13994AA	SROS license for using FP4 payload pattern ACL entries, this is a per system license. Network size 1 is a network of 1 to 5 routers total.
3HE13995AA	SROS license for using FP4 payload pattern ACL entries, this is a per system license. Network size 2 is a network of 6 to 25 routers total.
3HE13996AA	SROS license for using FP4 payload pattern ACL entries, this is a per system license. Network size 3 is a network of 26 to 50 or more routers total.

3HE13998AA	1-port 100/200G Coherenet CFP2-DCO pluggable, SMF, 100G Coherent tunable DWDM, 0/70C
3HE14002AA	2-ports 100GBase LR4 QSFP28-DD Optic Module, 10KM, SMF, CS connector, RoHS 6/6, Digital Diagnostic Monitor (DDM), 0/70C
3HE14004AA	1-port 10GE Small Form-Factor Pluggable (SFP+) Optics Module, Single Mode Fiber (SMF), 80km, Tunable across C-Band, LC Connector, Digital Diagnostic Monitor(DDM), RoHS 6/6 compliant, Low Power version, -40/85C
3HE14027AA	7750 SR-s IOM-s (Input/Output Module) 3.0T IOM-s Core Routing, accepts two modular MDA-s, 2x FP4 complex, CR (Core Router) feature set. MDA-s impedance panels needs to be added separately. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers) Hardware performance up to 3.0T.
3HE14027BA	7750 SR-s IOM-s (Input/Output Module) 3.0T IOM-s Edge Routing, accepts two modular MDA-s, 2x FP4 complex, ER (Edge Router) feature set. MDA-s impedance panels needs to be added separately. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers) Hardware performance up to 3.0T.
3HE14027CA	7750 SR-s IOM-s (Input/Output Module) 3.0T IOM-s High-Scale Edge Routing, accepts two modular MDA-s, 2x FP4 complex, HE (High-Scale Edge) feature set. MDA-s impedance panels needs to be added separately. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers) Hardware performance up to 3.0T.
3HE14029AA	7750 SR-14s/7s/2/1s MDA-s Impedance Panel, must be installed in each and every empty MDA-s slot.
3HE14032AA	7750 SR-2s LVDC complete chassis bundle, shipped with all common hardware. Includes: (1) 3HE12340AA - CHAS - 7750 SR-2s chassis + LVDC Power Shelf (3) 3HE12375AB - FAN - 7750 SR-2s Fan Module (3) 3HE11185AA - PSU - LVDC 6kw Power Supply (2) 3HE14034AA - CPM - 7750 SR-2s CPM-2s Important Rules; - Using the 2, 3, or 4-complex XMA-s requires both XCM-2s cards for 100% line-rate traffic on all ports simultaneously. - If using IOM-s-1.5T or IOM-s-3.0T only a single XCM-2s is required for 100% line-rate traffic. Additional items in which will need to be purchased separately are; Impedence Panels in all empty slots (XCM-s, XMA-s) and optional air filter kit. Accessory kit is included and contains power and ground lugs. PSU filler panels are included for empty slots.

3HE14033AA	7750 SR-2s AC/HVDC complete chassis bundle, shipped with all common hardware. Includes: (1) 3HE12340BA - CHAS - 7750 SR-2s chassis + AC/HVDC Power Shelf (3) 3HE12375AB - FAN - 7750 SR-2s Fan Module (3) 3HE11183AA - PSU - AC/HVDC 6kw Power Supply (2) 3HE14034AA - CPM - 7750 SR-2s CPM-2s Important Rules; - Using the 2, 3, or 4-complex XMA-s requires both XCM-2s cards for 100% line-rate traffic on all ports simultaneously. - If using IOM-s-1.5T or IOM-s-3.0T only a single XCM-2s is required for 100% line-rate traffic. Additional items in which will need to be purchased separately are; Impedance Panels in all empty slots (XCM-s, XMA-s), Power Cords and optional air filter kit. Accessory kit included.
3HE14034AA	CPM - 7750 SR-s CPM-2s
3HE14035AA	10-port 10/1GE SFP+/SFP MACsec MDA-a XP for the 7750 SR-a family. Optics Module must be purchased separately.
3HE14104AA	ACC – Rail-kit (fits 19" Rack Mount and 21" Open Rack for 1 system)
3HE14107AA	Deepfield Software Release Subscription For NAR ONLY - Required for software upgrades/updates - contact local Deepfield representative on how to calculate this per offer
3HE14108AA	Deepfield Software Release Subscription For NON USA ONLY - Required for software upgrades/updates - contact local Deepfield representative on how to calculate this per offer
3HE14148AE	7705 SAR-Hm/Hmc Release 22.x OS Upgrade for the basic suite of functionality. One (1) OS Upgrade is required for each SAR-Hm/Hmc in the network. See the optional RTUs available for additional advanced features. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/ .
3HE14148AF	SAR-Hm/Hmc Release 23 OS Upgrade for the basic suite of functionality. One (1) OS Upgrade is required for each SAR-Hm/Hmc in the network. See the optional RTUs available for additional advanced features. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/ .
3HE14160AA	SYS - 7250 IXR-s AC Bundle contains: (1) 3HE13343AA SYS - 7250 IXR-s (1) 3HE13344AA AC Power Supply (s) (6) 3HE13346AA 7250 IXR Fan (s)
3HE14161AA	SYS - 7250 IXR-s DC Bundle contains: (1) 3HE13343AA SYS - 7250 IXR-s (1) 3HE13345AA DC Power Supply (s) (6) 3HE13346AA 7250 IXR Fan(s)

3HE14163FA	OS - 7210 SAS-K 3SFP+ 8C ETR, Release 22.X Base OS License / Native and MPLS Ethernet L2 VPNs License. This is a per chassis license valid for release 22.X. It provides the Base OS and includes support for native and MPLS-based Ethernet services (e.g. Layer-2 VPLS and Epipe services). It also includes support for syncE and PTP. It excludes the use IP services (e.g. VPRNs and IES services). It must also be purchased for upgrade to release 22.X. It will shipped on a SD Card.
3HE14163GA	OS - 7210 SAS-K 3SFP+ 8C ETR, Release 23.X Base OS License / Native and MPLS Ethernet L2 VPNs License. This is a per chassis license valid for release 23.X. It provides the Base OS and includes support for native and MPLS-based Ethernet services (e.g. Layer-2 VPLS and Epipe services). It also includes support for syncE and PTP. It excludes the use IP services (e.g. VPRNs and IES services). It must also be purchased for upgrade to release 23.X. It will shipped on a SD Card.
3HE14164AA	RTU - 7210 SAS-K 3SFP+ 8C ETR, IP services License. This is a per chassis license. It is a one-time license to enable IP services on the node. It enables support of IP services (e.g. VPRN, IES and L3 VPNs using BGP 3107).
3HE14165AA	RTU - 7210 SAS Y.1564 testhead license. This is a per chassis license. It is a one-time license to use the Y.1564 testhead service test framework capabilities on the node. It is required to use this capability on 7210 SAS-K 2F1C2T (ETR and non-ETR), 7210 SAS-K 2F6C4T (ETR and non-ETR) and 7210 SAS-K 3SFP+8C ETR platforms.
3HE14280AA	7750 SR-1s/2s LVDC chassis accessory kit. (1) CABLE, CONSOLE, DB-9 TO RJ-45 (8) 12-24 COMB.PAN HEAD,PILOT POINT,RACK MNTNG. SCREW (34) NUT 1/4-20 CONICAL KEPS STL ZR (16) CONN,LUG,#4 AWG WIRE, 1/4" BOLT HOLES, .63" SPACING,RIGHT ANGLE (1) LUG, 4 AWG, 45 DEGREE BARREL, 0.25" STUD HOLES ON 0.625 SPACING (1) WRIST STRAP, ELASTIC, 6' COIL CORD (1) 3HE12566AA ACC - SR-s CLEANING TOOL. HONEYCOMB
3HE14281AA	7750 SR-1s/2s AC/HVDC chassis accessory kit (1) CABLE, CONSOLE, DB-9 TO RJ-45 (8) 12-24 COMB.PAN HEAD,PILOT POINT,RACK MNTNG. SCREW (2) NUT 1/4-20 CONICAL KEPS STL ZR (1) LUG, 4 AWG, 45 DEGREE BARREL, 0.25" STUD HOLES ON 0.625 SPACING (1) WRIST STRAP, ELASTIC, 6' COIL CORD (1) 3HE12566AA ACC - SR-s CLEANING TOOL. HONEYCOMB
3HE14282AA	2x MPO-12 to 12 (8 used) duplex LC breakout, MMF
3HE14283AA	2x MPO-12 to 12 (8 used) duplex LC breakout, SMF
3HE14284AA	2 MPO24 to 4 MPO12 breakout, MMF

3HE14287AA	7750 SR-2s Non-Controller Redundant LVDC complete chassis bundle, shipped with all common hardware. Includes: (1) 3HE12340AA - CHAS - 7750 SR-2s chassis + LVDC Power Shelf (3) 3HE12375AB - FAN - 7750 SR-2s Fan Module (3) 3HE11185AA - PSU - LVDC 6kw Power Supply (1) 3HE14034AA - CPM - 7750 SR-2s CPM-2s Important Rules; - Using the 2, 3, or 4-complex XMA-s requires both XCM-2s cards for 100% line-rate traffic on all ports simultaneously. - If using IOM-s-1.5T or IOM-s-3.0T only a single XCM-2s is required for 100% line-rate traffic. Additional items in which will need to be purchased separately are; Impedence Panels in all empty slots (XCM-s, XMA-s, CPM-s) and optional air filter kit. Accessory kit is included and contains power and ground lugs. PSU filler
3HE14288AA	7750 SR-2s Non-Controller Redundant AC/HVDC complete chassis bundle, shipped with all common hardware. Includes: (1) 3HE12340BA - CHAS - 7750 SR-2s chassis + AC/HVDC Power Shelf (3) 3HE12375AB - FAN - 7750 SR-2s Fan Module (3) 3HE11183AA - PSU - AC/HVDC 6kw Power Supply (1) 3HE14034AA - CPM - 7750 SR-2s CPM-2s Important Rules; - Using the 2, 3, or 4-complex XMA-s requires both XCM-2s cards for 100% line-rate traffic on all ports simultaneously. - If using IOM-s-1.5T or IOM-s-3.0T only a single XCM-2s is required for 100% line-rate traffic. Additional items in which will need to be purchased separately are; Impedence Panels in all empty slots (XCM-s, XMA-s, CPM-s), Power Cords and optional air filter kit. Accessory kit included
3HE14296AA	7750 SR-s IOM-s (Input/Output Module) 2.4T IOM-s Core Routing, accepts two modular MDA-s, 2x FP4 complex, CR (Core Router) feature set. MDA-s impedance panels needs to be added separately. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers) This card is based off "3HE14027xA - XMA - IOM-s - SR-s IOM-s 3.0T" Software scale upgradeable to ER or HE feature set. Hardware performance upgradeable to 3.0T.
3HE14296BA	7750 SR-s IOM-s (Input/Output Module) 2.4T IOM-s Edge Routing, accepts two modular MDA-s, 2x FP4 complex, ER (Edge Router) feature set. MDA-s impedance panels needs to be added separately. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers) This card is based off "3HE14027xA - XMA - IOM-s - SR-s IOM-s 3.0T" Software scale upgradeable to ER or HE feature set. Hardware performance upgradeable to 3.0T.

3HE14296CA	7750 SR-s IOM-s (Input/Output Module) 2.4T IOM-s High-Scale Edge Routing, accepts two modular MDA-s, 2x FP4 complex, HE (High-Scale Edge) feature set. MDA-s impedance panels needs to be added separately. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers) This card is based off “3HE14027xA - XMA - IOM-s - SR-s IOM-s 3.0T” Full High-Scale Edge feature set Hardware performance upgradeable to 3.0T.
3HE14297AA	UPG - IOM-s 1.6T CR to 2.4T CR
3HE14298AA	UPG - IOM-s 1.6T ER to 2.4T ER
3HE14299AA	UPG - IOM-s 1.6T HE to 2.4T HE
3HE14300AA	UPG - IOM-s 1.6T CR to 1.6T ER
3HE14301AA	UPG - IOM-s 1.6T ER to 1.6T HE
3HE14303AA	UPG - IOM-s 2.4T CR to 2.4T ER
3HE14305AA	UPG - IOM-s 2.4T CR to 3.0T CR
3HE14306AA	UPG - IOM-s 2.4T ER to 2.4T HE
3HE14307AA	UPG - IOM-s 2.4T ER to 3.0T ER
3HE14308AA	UPG - IOM-s 2.4T HE to 3.0T HE
3HE14309AA	UPG - IOM-s 3.0T CR to 3.0T ER
3HE14310AA	UPG - IOM-s 3.0T ER to 3.0T HE
3HE14341AA	ACC-7210SAS-Sx 10/100 19”Rear Rack Mount
3HE14583EA	OS - 7210 SAS-Mxp, Release 22.X Base OS License, Satellite Mode. This is a per chassis license for release 22.X. It allows for operating the chassis in satellite mode. It is required to operate 7210 SAS-Mxp ETR and non-ETR chassis, in satellite mode. It excludes the use standalone mode of operation. It must also be purchase for upgrade to release 22.X. Includes one (1) programmed 2GB Compact Flash cards with the Operating Software
3HE14583FA	OS - 7210 SAS-Mxp, Release 23.X Base OS License, Satellite Mode. This is a per chassis license for release 23.X. It allows for operating the chassis in satellite mode. It is required to operate 7210 SAS-Mxp ETR and non-ETR chassis, in satellite mode. It excludes the use standalone mode of operation. It must also be purchase for upgrade to release 23.X. Includes one (1) programmed Compact Flash card with the Operating Software.

3HE14648AA	7750 SR-1s system, 2x FP4 complex, performance restricted to 2.4T FD, port restricted to 24-connectors Universal QSFP28. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers) This 7750 SR-1s is based off “3HE13800xA - SYS-SR-1s 2.4T 36pt QSFP28 to 3.6T DC” licensed to 2.4T throughput and 24-connectors hard license enabled. Software scale upgradeable to ER or HE feature set. Hardware performance upgradeable from 2.4T to 3.6T intelligent fan-in/fan-out.
3HE14648BA	7750 SR-1s system, 2x FP4 complex, performance restricted to 2.4T FD, port restricted to 24-connectors Universal QSFP28. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers) This card is based off “3HE13800xA - SYS-SR-1s 2.4T 36pt QSFP28 to 3.6T DC” licensed to 2.4T throughput and 24-connectors hard license enabled. Software scale upgradeable to HE feature set. Hardware performance upgradeable from 2.4T to 3.6T intelligent fan-in/fan-out.
3HE14648CA	7750 SR-1s system, 2x FP4 complex, performance restricted to 2.4T FD, port restricted to 24-connectors Universal QSFP28. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers) This 7750 SR-1s is based off “3HE13800xA - SYS-SR-1s 2.4T 36pt QSFP28 to 3.6T DC” licensed to 2.4T throughput and 24-connectors hard license enabled. Full High-Scale Edge feature set. Hardware performance upgradeable from 2.4T to 3.6T intelligent fan-in/fan-out.
3HE14649AA	1-port 10GBase Small Form-Factor Pluggable (SFP+) eZR Optic Module, 1550nm, up to 110km, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant, 0/70C
3HE14657AA	ACC – 7750 SR-2s spare air filters qty 10
3HE14658AA	7750 SR-1s Air Filter mounting Hardware kit. Ships with one filter media. The Filter kit is highly recommend for every installation and therefore, should be order with each system
3HE14659AA	ACC – 7750 SR-1s spare air filters qty 10
3HE14782AA	7250 IXR-e 24xSFP+/SFP + 8xSFP28/SFP+ + 2xQSFP28 (IXR-e Big). Supports redundant removable power supplies and removable fan filter. Ships with one fan filter installed. PSUs, software licenses and other accessories sold separately.
3HE14782AB	Conformal coated 7250 IXR-e 24xSFP+/SFP + 8xSFP28/SFP+ + 2xQSFP28. Supports redundant removable power supplies and removable fan filter. Ships with one fan filter installed. PSUs, software licenses and other accessories sold separately.
3HE14783AA	7250 IXR-e 14xSFP+/SFP + 4xRJ45 (IXR-e Small). Supports redundant removable power supplies and removable fan filter. Ships with one fan filter installed. PSUs, software licenses and other accessories sold separately.

3HE14783AB	Conformal coated 7250 IXR-e 14xSFP+/SFP + 4xRJ45. Supports redundant removable power supplies and removable fan filter. Ships with one fan filter installed. PSUs, software licenses and other accessories sold separately.
3HE14784AA	PS - 7250 IXR-e AC Fits both IXR-e Models
3HE14784AB	PS - Conformal coated 7250 IXR-e AC Fits both IXR-e Models
3HE14785AA	PS - 7250 IXR-e 20-60V DC Fits both IXR-e platforms
3HE14785AB	PS - Conformal coated 7250 IXR-e 20-72V DC Fits both IXR-e platforms
3HE14796AA	SYS - 7210 SAS-Dxp 2SFP+ 4F 6T AC
3HE14797AA	SYS - 7210 SAS-Dxp 2SFP+ 4F 6T DC -48V
3HE14798AA	SYS - 7210 SAS-Dxp 2SFP+ 4F 6T ETR AC For redundant Power Supply see 3HE10964 & 3HE10965
3HE14799AA	SYS - 7210 SAS-Dxp 2SFP+ 4F 6T ETR DC -48V For redundant Power Supply see 3HE10964 & 3HE10965
3HE14816AA	QSFP28 - SFP28/SFP+ Adapter, 0/70C 7750/7950 - QSFP28 - SFP28/SFP+ Adapter will only support 10GE SFP+ in the FP4 based cards, 25GE SFP28 will not be supported. 7250 - QSFP28 - SFP28/SFP+ Adapter will only support 25G SFP28 in the QSFP28 base cards, 10GE SFP+ will not be supported.
3HE14833AA	SFP – GNSS SFP – support GPS G.8275.1 full timing support with Ethernet encapsulation. GPS receiver and grandmaster.
3HE14834AA	1-port 25GBASE-SR Small Form-Factor Pluggable+ (SFP28) Optics Module, Multi-Mode Fiber (MMF), 100m, 850nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant, Extended Temperature -40/85C
3HE14835AA	1-port 25GBASE-LR Small Form-Factor Pluggable+ (SFP28) Optics Module, Single Mode Fiber (SMF), 10km, 1310 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant, Extended Temperature -40/85C
3HE14888AA	7750 SR 8-ports 10/25GE MDA-e supports MACsec on all ports. Accepts eight (8) SFP+/SFP28 10Gbase or 25Gbase Optic Modules.
3HE14984AA	RTU - Right to Use - 1GE MACSEC (1 License per MACsec enabled port)
3HE14986AA	RTU - Right to Use - 10GE MACSEC (1 License per MACsec enabled port))
3HE14987AA	RTU - Right to Use - 25GE MACSEC (1 License per MACsec enabled port))
3HE14988AA	RTU - Right to Use - 100GE MACSEC (1 License per MACsec enabled port))
3HE15152AA	7750 SR 6-ports 10/40/100/400GBASE QSFP-DD MDA-e-XP. Accepts six (6) 10/40/100/400GBase Optic Mod7750 SR 6-ports 10/40/100/400GBASE QSFP-DD MDA-e-XP, designed to maximize 4x100G breakout, 400G interfaces can be used with iFIFO. If 1x400G line-rate is required use the 3HE15764AA - MDA-e-XP 7750 SR 3pt QSFP-DD for 400G interfaces . Accepts six (6) 100G, 2x100G, 4x10, 1x40G and 10x10GBase Optic Module QSFP+/QSFP28/QSFP28-DD/QSFP56-DD. ule QSFP+/QSFP28/QSFP28-DD/QSFP56-DD.

3HE15182AA	7750 SR IOM5-e, 1x FP4 complex, performance restricted to 800G FD non-redundant, accepts two (2) MDA-e-XP. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers) This card is based off “3HE12332xA - IOM - 7750 SR IOM5-e” licensed to 800G throughput. Software scale upgradeable to ER or HE feature set. Hardware performance upgradeable from 800G to 1.5T 7750 SR-7/12-B - licensed to 800G non-redundant throughput up to 1.5T intelligent fan-in/fan-out. 12pt 100G QSFP28 MDA-e-XP is not supported 7750 SR-12e - licensed to 800G redundant throughput up to 2.4T intelligent fan-in/fan-out, no MDA-e-XP restrictions
3HE15182BA	7750 SR IOM5-e, 1x FP4 complex, performance restricted to 800G FD non-redundant, accepts two (2) MDA-e-XP. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers) This card is based off “3HE12332xA - IOM - 7750 SR IOM5-e” licensed to 400G throughput. Software scale upgradeable to HE feature set. Hardware performance upgradeable from 800G to 1.5T 7750 SR-7/12-B - licensed to 800G non-redundant throughput up to 1.5T intelligent fan-in/fan-out. 12pt 100G QSFP28 MDA-e-XP is not supported 7750 SR-12e - licensed to 800G redundant throughput up to 2.4T intelligent fan-in/fan-out, no MDA-e-XP restrictions
3HE15182CA	7750 SR IOM5-e, 1x FP4 complex, performance restricted to 800G FD non-redundant, accepts two (2) MDA-e-XP. High-Scale Edge (ER) no restrictions on h/w queues or egress policers This card is based off “3HE12332xA - IOM - 7750 SR IOM5-e” licensed to 800G throughput. Full High-Scale Edge feature set Hardware performance upgradeable from 800G to 1.5T 7750 SR-7/12-B - licensed to 800G non-redundant throughput up to 1.5T intelligent fan-in/fan-out. 12pt 100G QSFP28 MDA-e-XP is not supported 7750 SR-12e - licensed to 800G redundant throughput up to 2.4T intelligent fan-in/fan-out, no MDA-e-XP restrictions
3HE15211AA	1-port 400GBase SR8 100m QSFP56-DD Optics Module, 100m, MPO Connector, RoHS 6/6 compliant, Digital Diagnostic Monitor (DDM)
3HE15212AA	1-port 400GBase LR8 10km QSFP56-DD Optics Module, 10km, LC Connector, RoHS 6/6 compliant, Digital Diagnostic Monitor (DDM)
3HE15222AA	Upgrade from IOM5-e 400G CR (Core Router) to IOM5-e 800G CR (Core Router) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>

3HE15223AA	Upgrade from IOM5-e 400G ER (Edge Router) to IOM5-e 800G ER (Edge Router) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>
3HE15224AA	Upgrade from IOM5-e 400G HE (High-Scale Edge) to IOM5-e 800G HE (High-Scale Edge) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>
3HE15225AA	Upgrade from IOM5-e 800G CR (Core Router) to IOM5-e 800G ER (Edge Router) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>
3HE15226AA	Upgrade from IOM5-e 800G ER (Edge Router) to IOM5-e 800G HE (High-Scale Edge) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>
3HE15227AA	Upgrade from IOM5-e 800G CR (Core Router) to IOM5-e 1.5T CR (Core Router) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>
3HE15228AA	Upgrade from IOM5-e 800G ER (Edge Router) to IOM5-e 1.5T ER (Edge Router) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>
3HE15229AA	Upgrade from IOM5-e 800G HE (High-Scale Edge) to IOM5-e 1.5T HE (High-Scale Edge) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>
3HE15260AA	Upgrade license from 600Gbps 6 port QSFP28 XMA-s -CR to 600Gbps 6 port QSFP28 XMA-s - ER <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>
3HE15261AA	Upgrade license from 600Gbps 6 port QSFP28 XMA-s - ER (Edge Router) to 600Gbps 6 port QSFP28 XMA-s - HE (High-Scale Edge Router) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>

3HE15262AA	Upgrade license from 600Gbps 6 port QSFP28 XMA-s -CR (Core Router) to 1.2Tbps 12 port QSFP28 XMA-s - CR (Core Router) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>
3HE15263AA	Upgrade license from 600Gbps 6 port QSFP28 XMA-s -ER (Edge Router) to 1.2Tbps 12 port QSFP28 XMA-s - ER (Edge Router) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>
3HE15264AA	Upgrade license from 600Gbps 6 port QSFP28 XMA-s -HE (High-Scale Edge Router) to 1.2Tbps 12 port QSFP28 XMA-s - HE (High-Scale Edge Router) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>
3HE15265AA	Upgrade license from 1.2Tbps 12 port QSFP28 XMA-s - CR (Core Router) to 1.2Tbps 12 port QSFP28 XMA-s - ER (Edge Router) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>
3HE15266AA	Upgrade license from 1.2Tbps 12 port QSFP28 XMA-s - ER (Edge Router) to 1.2Tbps 12 port QSFP28 XMA-s - HE (High-Scale Edge Router) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>
3HE15267AA	Upgrade license to enable aggregation mode up to 1.8T / 18 ports QSFP28 XMA-s (applies to CR, ER, HE variants) <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>
3HE15268AA	Patch Panel Filler kit Qty 3
3HE15269AA	Patch Panel Filler Qty 1
3HE15271AA	1-port 400GBase DR4 or 4-port 100GBase QSFP56-DD Optics Module, 500m, MPO12 Connector, RoHS 6/6 compliant, Digital Diagnostic Monitor (DDM)
3HE15272AA	1-port 400GBase FR4 2km QSFP56-DD Optics Module, 2km, LC Connector, RoHS 6/6 compliant, Digital Diagnostic Monitor (DDM)
3HE15274AA	4-port 100GBase QSFP56-DD Optics Module, 2km, MPO12 Connector, RoHS 6/6 compliant, Digital Diagnostic Monitor (DDM)
3HE15276AA	1-port 100GBase DR Single Lambda QSFP28 Optics Module, 500m, LC Connector, RoHS 6/6 compliant, Digital Diagnostic Monitor (DDM), 0/70C
3HE15277AA	1-port 100GBase FR Single Lambda QSFP28 Optics Module, 2km, LC Connector, RoHS 6/6 compliant, Digital Diagnostic Monitor (DDM), 0/70C
3HE15278AA	1-port 50GBase LR 10km QSFP28 Optics Module, 10km, LC Connector, RoHS 6/6 compliant, 0/70C Temperature
3HE15279AA	1-port 50GBase ER 40km QSFP28 Optics Module, 40km, LC Connector, RoHS 6/6 compliant, 0/70C Temperature

3HE15280AA	1-port 50GBase SR 100m SFP56 Optics Module, 100m, LC Connector, MMF, 850nm, RoHS 6/6 compliant, 0/70C Temperature
3HE15300AA	SROS URL Filter Res 10k Subs - Right to Use required for Application Assurance integrated web content categorization filtering for residential ESM or transit-AA subscribers, using related ION Web Categorization Services. One of these RTUs is required for URL filtering for every increment of 10,000 subscribers. Multiple instances may be applied to allow the desired scale. Per Network license.
3HE15301AA	SROS URL Filter Wifi 10k Subs - Right to Use required for Application Assurance integrated web content categorization filtering for residential wifi ESM or DSM subscribers, using related Web Categorization Services. One of these RTUs is required for URL filtering for every increment of 10,000 subscribers. Multiple instances may be applied to allow the desired scale. Per Network license.
3HE15302AA	SROS Flow Attributes 10 Gbps. Right to Use required to enable flow attributes for up to 10Gb/s. Requires ordering of AA ID as pre-requisite. One of these ASLs is required for every increment of 10Gbps. Multiple instances may be applied to a single system to allow the desired scale.
3HE15303AA	ASL VSR-AA Web Content Ctl Wifi 10k Subs. Application Software License required for Application Assurance integrated web content categorization filtering for residential wifi ESM or DSM subscribers, using related Web Categorization Services. One of these ASLs is required for URL filtering for every increment of 10,000 subscribers. Multiple instances may be applied to allow the desired scale. Per Network license
3HE15304AA	ASL VSR-AA Flow Attributes Res 10k Subs. Application Software License required for flow attributes for residential subscribers. Requires ordering of AA ID and Control ASL as pre-requisite. One of these ASLs is required for every increment of 10,000 subscribers. Multiple instances may be applied to a single system to allow the desired scale.
3HE15305AA	ASL VSR-AA Web Content Ctl Wifi 10k Subs. Application Software License to enables integrated web content categorization filtering, using related Web Categorization Services. Requires ordering of AA ID and Control ASL as pre-requisite. One of these ASLs is required for every increment of 10,000 subscribers. Multiple instances may be applied to allow the desired scale.
3HE15306AA	ASL VSR-AA Flow Attributes Wifi 10k Subs. Enables flow attributes for Wifi ESM or DSM subscribers. Requires ordering of AA ID and Control ASL as pre-requisite. One of these ASLs is required for every increment of 10,000 subscribers. Multiple instances may be applied to allow the desired scale.
3HE15377AA	1-port 25GBASE-ER Small Form-Factor Pluggable+ (SFP28) Optics Module, Single Mode Fiber (SMF), 40km, 1295 to 1310 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant, Extended Temperature -40/85C
3HE15378AA	1-port 25GBASE-BX10-U (Up-Stream) Bi-Directional (BiDi) Small Form-Factor Pluggable (SFP28) Optics Module, Single Mode Fiber (SMF), 10km, TX:1330 nm, RX: 1270 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant, Extended Temperature -40/85C
3HE15378AB	1-port 25GBASE-BX10-D (Down-Stream) Bi-Directional (BiDi) Small Form-Factor Pluggable (SFP28) Optics Module, Single Mode Fiber (SMF), 10km, TX: 1270 nm, RX: 1330 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 Compliant, Extended Temperature -40/85C

3HE15379AA	1-port 25GBASE-BX20-U (Up-Stream) Bi-Directional (BiDi) Small Form-Factor Pluggable (SFP28) Optics Module, Single Mode Fiber (SMF), 20km, TX:1330 nm, RX: 1270 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant, Extended Temperature -40/85C
3HE15379AB	1-port 25GBASE-BX20-D (Down-Stream) Bi-Directional (BiDi) Small Form-Factor Pluggable (SFP28) Optics Module, Single Mode Fiber (SMF), 20km, TX: 1270 nm, RX: 1330 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 Compliant, Extended Temperature -40/85C
3HE15386AA	7250 IXR-e 24xSFP+/SFP + 8xSFP28/SFP+ + 2xQSFP28 plus internal GNSS receiver (IXR-e Big GNSS). Supports redundant removable power supplies and removable fan filter. Ships with one fan filter installed. PSUs, software licenses and other accessories sold separately.
3HE15386AB	Conformal coated 7250 IXR-e 24xSFP+/SFP + 8xSFP28/SFP+ + 2xQSFP28 plus internal GNSS receiver. Supports redundant removable power supplies and removable fan filter. Ships with one fan filter installed. PSUs, software licenses and other accessories sold separately.
3HE15387AA	7250 IXR-e 14xSFP+/SFP + 4xRJ45 plus internal GNSS receiver (IXR-e Small GNSS). Supports redundant removable power supplies and removable fan filter. Ships with one fan filter installed. PSUs, software licenses and other accessories sold separately.
3HE15387AB	Conformal coated 7250 IXR-e 14xSFP+/SFP + 4xRJ45 plus internal GNSS receiver. Supports redundant removable power supplies and removable fan filter. Ships with one fan filter installed. PSUs, software licenses and other accessories sold separately.
3HE15400AA	RTU - 7705 SAR-Hm/Hmc NAT license. Includes maximum supported NAT session and throughput available on one SAR-Hm/Hmc node. One (1) OS License is required for each SAR-Hm/Hmc in the network.
3HE15401AA	ASL VSR-AA Roaming Firewall 1Gbps. Application Software License required for mobile network Roaming GTP firewall. Requires ordering of AA Stateful Firewall ASL as pre-requisite. One of these ASLs is required for every increment of 1Gbps of traffic. Multiple instances may be applied to a single system to allow the desired scale.
3HE15402AA	SROS Roaming Firewall License per 10Gbps. Right to Use required for mobile network Roaming GTP firewall. Requires ordering of AA Stateful Firewall RTU as pre-requisite. One of these RTUs is required for every increment of 10Gbps of traffic. Multiple instances may be applied to a single system to allow the desired scale.
3HE15413AA	ACC - 7250 IXR-e Fan Filter (18 pack) Fits both IXR-e platforms
3HE15415AA	7750 SR-s IOM-s (Input/Output Module) 800G IOM-s Core Routing, accepts two modular MDA-s, 1x FP4 complex, CR (Core Router) feature set. MDA-s impedance panels needs to be added separately. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers) This card is based off "3HE15416xA - XMA - IOM-s - SR-s IOM-s 1.5T" Software scale upgradeable to ER or HE feature set. Hardware performance upgradeable to 1.5T

3HE15415BA	7750 SR-s IOM-s (Input/Output Module) 800G IOM-s Edge Router, accepts two modular MDA-s, 1x FP4 complex, ER (Edge Router) feature set. MDA-s impedance panels needs to be added separately. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers) This card is based off “3HE15416xA - XMA - IOM-s - SR-s IOM-s 1.5T” Software scale upgradeable to ER or HE feature set. Hardware performance upgradeable to 1.5T
3HE15415CA	7750 SR-s IOM-s (Input/Output Module) 800G IOM-s High-Scale Edge, accepts two modular MDA-s, 1x FP4 complex, HE (High-Scale Edge) feature set. MDA-s impedance panels needs to be added separately. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers) This card is based off “3HE15416xA - XMA - IOM-s - SR-s IOM-s 1.5T” Full High-Scale Edge feature set Hardware performance upgradeable to 1.5T
3HE15416AA	7750 SR-s IOM-s (Input/Output Module) 1.5T IOM-s Core Routing, accepts two modular MDA-s, 1x FP4 complex, CR (Core Router) feature set. MDA-s impedance panels needs to be added separately. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers) Hardware performance up to 1.5T.
3HE15416BA	7750 SR-s IOM-s (Input/Output Module) 1.5T IOM-s Edge Routing, accepts two modular MDA-s, 1x FP4 complex, ER (Edge Router) feature set. MDA-s impedance panels needs to be added separately. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers) Hardware performance up to 1.5T.
3HE15416CA	7750 SR-s IOM-s (Input/Output Module) 1.5T IOM-s High-Scale Edge Routing, accepts two modular MDA-s, 1x FP4 complex, HE (High-Scale Edge) feature set. MDA-s impedance panels needs to be added separately. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers) Hardware performance up to 1.5T.
3HE15417AA	7750 SR-1s Modular system, 2x FP4 complex, accepting x2 MDA-s, performance restricted to 1.6T FD. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers) This 7750 SR-1s Modular is based off “3HE15421xA - SYS - SR-1s MODULAR 3.0T - CR DC” licensed to 1.6T throughput. Software scale upgradeable to ER or HE feature set. Hardware performance upgradeable from 1.6T to 2.4T or 3.0T intelligent fan-in/fan-out

3HE15417BA	7750 SR-1s Modular system, 2x FP4 complex, accepting x2 MDA-s, performance restricted to 1.6T FD. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers) This 7750 SR-1s Modular is based off “3HE15421xA - SYS - SR-1s MODULAR 3.0T - CR DC” licensed to 1.6T throughput. Software scale upgradeable to HE feature set. Hardware performance upgradeable from 1.6T to 2.4T or 3.0T intelligent fan-in/fan-out
3HE15417CA	7750 SR-1s Modular system, 2x FP4 complex, accepting x2 MDA-s, performance restricted to 1.6T FD. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers) This 7750 SR-1s Modular is based off “3HE15421xA - SYS - SR-1s MODULAR 3.0T - CR DC” licensed to 1.6T throughput. Full High-Scale Edge feature set. Hardware performance upgradeable from 1.6T to 2.4T or 3.0T intelligent fan-in/fan-out
3HE15418AA	7750 SR-1s Modular system, 2x FP4 complex, accepting x2 MDA-s, performance restricted to 1.6T FD. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers) This 7750 SR-1s Modular is based off “ 3HE15422xA - SYS - SR-1s MODULAR 3.0T - CR AC” licensed to 1.6T. Software scale upgradeable to ER or HE feature set. Hardware performance upgradeable from 1.6T to 2.4T or 3.0T intelligent fan-in/fan-out
3HE15418BA	7750 SR-1s Modular system, 2x FP4 complex, accepting x2 MDA-s, performance restricted to 1.6T FD, port restricted to 16-connectors Universal QSFP28. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers) This 7750 SR-1s Modular is based off “ 3HE15422xA - SYS - SR-1s MODULAR 3.0T - CR AC” licensed to 1.6T. Software scale upgradeable to ER or HE feature set. Hardware performance upgradeable from 1.6T to 2.4T or 3.6T intelligent fan-in/fan-out
3HE15418CA	7750 SR-1s Modular system, 2x FP4 complex, accepting x2 MDA-s, performance restricted to 1.6T FD. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers) This 7750 SR-1s Modular is based off “ 3HE15422xA - SYS - SR-1s MODULAR 3.0T - CR AC” licensed to 1.6T. Full High-Scale Edge feature set. Hardware performance upgradeable from 1.6T to 2.4T or 3.0T intelligent fan-in/fan-out

3HE15419AA	7750 SR-1s Modular system, 2x FP4 complex, accepting x2 MDA-s, performance restricted to 2.4T FD. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers) This 7750 SR-1s Modular is based off “3HE15421xA - SYS - SR-1s MODULAR 3.0T - CR DC” licensed to 2.4T throughput. Software scale upgradeable to ER or HE feature set. Hardware performance upgradeable from 2.4T or 3.0T intelligent fan-in/fan-out.
3HE15419BA	7750 SR-1s Modular system, 2x FP4 complex, accepting x2 MDA-s, performance restricted to 2.4T FD. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers) This 7750 SR-1s Modular is based off “3HE15421xA - SYS - SR-1s MODULAR 3.0T - CR DC” licensed to 2.4T throughput. Software scale upgradeable to HE feature set. Hardware performance upgradeable from 2.4T or 3.0T intelligent fan-in/fan-out.
3HE15419CA	7750 SR-1s Modular system, 2x FP4 complex, accepting x2 MDA-s, performance restricted to 2.4T FD. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers) This 7750 SR-1s Modular is based off “3HE15421xA - SYS - SR-1s MODULAR 3.0T - CR DC” licensed to 2.4T throughput. Full High-Scale Edge feature set. Hardware performance upgradeable from 2.4T or 3.0T intelligent fan-in/fan-out.
3HE15420AA	7750 SR-1s Modular system, 2x FP4 complex, accepting x2 MDA-s, performance restricted to 2.4T FD. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers) This 7750 SR-1s Modular is based off “ 3HE15422xA - SYS - SR-1s MODULAR 3.0T - CR AC” licensed to 2.4T. Software scale upgradeable to ER or HE feature set. Hardware performance upgradeable from 2.4T or 3.0T intelligent fan-in/fan-out.
3HE15420BA	7750 SR-1s Modular system, 2x FP4 complex, accepting x2 MDA-s, performance restricted to 2.4T FD. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers) This 7750 SR-1s Modular is based off “ 3HE15422xA - SYS - SR-1s MODULAR 3.0T - CR AC” licensed to 2.4T. Software scale upgradeable to ER or HE feature set. Hardware performance upgradeable from 2.4T or 3.0T intelligent fan-in/fan-out.

3HE15420CA	7750 SR-1s Modular system, 2x FP4 complex, accepting x2 MDA-s, performance restricted to 2.4T FD. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers) This 7750 SR-1s Modular is based off “ 3HE15422xA - SYS - SR-1s MODULAR 3.0T - CR AC” licensed to 2.4T. Full High-Scale Edge feature set. Hardware performance upgradeable from 2.4T or 3.0T intelligent fan-in/fan-out.
3HE15421AA	7750 SR-1s Modular system, 2x FP4 complex, accepting x2 MDA-s, performance restricted to 3.0T FD. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers) Software scale upgradeable to ER or HE feature set.
3HE15421BA	7750 SR-1s Modular system, 2x FP4 complex, accepting x2 MDA-s, performance restricted to 3.0T FD. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers) Software scale upgradeable to HE feature set.
3HE15421CA	7750 SR-1s Modular system, 2x FP4 complex, accepting x2 MDA-s, performance restricted to 3.0T FD. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers) Full High-Scale Edge feature set.
3HE15422AA	7750 SR-1s Modular system, 2x FP4 complex, accepting x2 MDA-s, performance restricted to 3.0T FD. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers) Software scale upgradeable to ER or HE feature set.
3HE15422BA	7750 SR-1s Modular system, 2x FP4 complex, accepting x2 MDA-s, performance restricted to 3.0T FD. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers) Software scale upgradeable to ER or HE feature set.
3HE15422CA	7750 SR-1s Modular system, 2x FP4 complex, accepting x2 MDA-s, performance restricted to 3.0T FD. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers) Full High-Scale Edge feature set.
3HE15490AA	ACC - 7210 SAS-Dxp Rack Mount

3HE15508DA	OS - 7210 SAS-Dxp 12p, 16p, 24p, Release 22.X Base OS license / Native Ethernet L2 VPNs license. This license is required for both 7210 SAS-Dxp 2SFP+ 4F6T (a.k.a. 7210 SAS-Dxp 12p), 7210 SAS-Dxp 2SFP+ 4F6T ETR (a.k.a. 7210 SAS-Dxp 12p ETR), 7210 SAS-Dxp 16p (2SFP+ 4F10T), and 7210 SAS-Dxp 24p (2SFP+ 6F16T). This is a per chassis license valid for release 22.X. It provides the Base OS and includes support for native Ethernet services (e.g. Layer-2 VPLS and Epipe services). It must be also purchased for upgrade to release 22.X. It will shipped on a SD Card.
3HE15508EA	OS - 7210 SAS-Dxp 12p, 16p, 24p, Release 23.X Base OS license / Native Ethernet L2 VPNs license. This license is required for both 7210 SAS-Dxp 2SFP+ 4F6T (a.k.a. 7210 SAS-Dxp 12p), 7210 SAS-Dxp 2SFP+ 4F6T ETR (a.k.a. 7210 SAS-Dxp 12p ETR), 7210 SAS-Dxp 16p (2SFP+ 4F10T), and 7210 SAS-Dxp 24p (2SFP+ 6F16T). This is a per chassis license valid for release 23.X. It provides the Base OS and includes support for native Ethernet services (e.g. Layer-2 VPLS and Epipe services). It must be also purchased for upgrade to release 23.X. It will shipped on a SD Card.
3HE15509AA	RTU - 7210 SAS-K MACsec license. This is a per chassis license. It is a one-time license to use the MACsec capabilities on the node for either 1GE port or 10GE port, as applicable. It is required to use MACsec capability on 7210 SAS-K 2F6C4T ETR and 7210 SAS-K 3SFP+8C ETR platforms.
3HE15514AA	UPG - IOM-s 800G CR to 800G ER
3HE15515AA	UPG - IOM-s 800G ER to 800G HE
3HE15516AA	UPG - IOM-s 800G CR to 1.5T CR
3HE15517AA	UPG - IOM-s 800G ER to 1.5T ER
3HE15518AA	UPG - IOM-s 800G HE to 1.5T HE
3HE15519AA	UPG - IOM-s 1.5T CR to 1.5T ER
3HE15520AA	UPG - IOM-s 1.5T ER to 1.5T HE
3HE15521AA	Upgrade license from SR-1s Modular 1.6T CR to 2.4T CR <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>
3HE15522AA	Upgrade license from SR-1s Modular 1.6T ER to 2.4T ER <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>
3HE15523AA	Upgrade license from SR-1s Modular 1.6T HE to 2.4T HE <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>

3HE15524AA	Upgrade license from SR-1s Modular 1.6T CR to 1.6T ER <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>
3HE15525AA	Upgrade license from SR-1s Modular 1.6T ER to 1.6T HE <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>
3HE15526AA	Upgrade license from SR-1s Modular 2.4T CR to 2.4T ER <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>
3HE15527AA	Upgrade license from SR-1s Modular 2.4T ER to 2.4T HE <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>
3HE15528AA	Upgrade license from SR-1s Modular 2.4T CR to 3.0T CR <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>
3HE15529AA	Upgrade license from SR-1s Modular 2.4T ER to 3.0T ER <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>
3HE15530AA	Upgrade license from SR-1s Modular 2.4T HE to 3.0T HE <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>
3HE15531AA	Upgrade license from SR-1s Modular 3.0T CR to 3.0T ER <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>
3HE15532AA	Upgrade license from SR-1s Modular 3.0T ER to 3.0T HE <i>Installation requires the use of Centralized License Manager (CLM) - 3HE14159AA CLM is a license management tool for selected ION products. It enables license pool management, license pool capacity reservation & network function entitlement management (for SROS).</i>
3HE15533AA	SYS-7250 IXR-e 24SFP+ 8SFP28 2QSFP28 AC Bundle Includes: (1) 3HE14782AA SYS - 7250 IXR-e 24SFP+ 8SFP28 2QSFP28 (2) 3HE14784AA PS - 7250 IXR-e AC Software image and AC Power Cables Not included
3HE15534AA	SYS-7250 IXR-e 24SFP+ 8SFP28 2QSFP28 DC Bundle Includes: (1) 3HE14782AA SYS - 7250 IXR-e 24SFP+ 8SFP28 2QSFP28 (2) 3HE14785AA PS - 7250 IXR-e DC Software image Not included

3HE15555AA	SYS-7250 IXR-e 14SFP+ 4T AC Bundle Includes: (1) 3HE14783AA SYS - 7250 IXR-e 14SFP+ 4T (2) 3HE14784AA PS - 7250 IXR-e AC Software image and AC Power Cables Not included
3HE15556AA	SYS-7250 IXR-e 14SFP+ 4T DC Bundle Includes: (1) 3HE14783AA SYS - 7250 IXR-e 14SFP+ 4T (2) 3HE14785AA PS - IXR-e DC Software image Not included
3HE15561AA	7750 SR-s 3-port CFP2-DCO MDA-s. 100 Gbps transmission using QPSK modulation for metro-core and long-haul applications and 200 Gbps (2x100G) for metro-access applications. Accepts three (3) CFP-DCO Optic Module.
3HE15563AA	7750 SR-s 2-ports QSFP56-DD (10/40/100/400G) + 2-ports QSFP28 (10/40/100G) MDA-s. Accepts (2) 10/40/100/400GBase Optic Module QSFP+/QSFP28/QSFP28-DD/QSFP56-DD + (2) 10/40/100GBase QSFP+/QSFP28.
3HE15586AA	GNSS Antenna bracket
3HE15587AA	ASL VSR Telemetry - Application Software License (ASL) required to enable the Telemetry feature. One (1) license is required per VSR.
3HE15613AA	Deepfield Techops connector -- Large.
3HE15614AA	Deepfield Techops connector -- Medium.
3HE15615AA	Deepfield Techops connector -- Small.
3HE15621AA	SYS - 7220 IXR-D1 88G 48baseT 4SFP+, base platform. Does not include the 3 fans or 1+1 power supplies.
3HE15622AA	SYS - 7220 IXR-D2 2.0T 48SFP28 8QSFP28, base platform. Does not include the 4 fans or 1+1 power supplies.
3HE15623AA	SYS - 7220 IXR-D3 3.2T 32QSFP28 2SFP+, base platform. Does not include the 5 fans or 1+1 power supplies.
3HE15625AA	PS - 7220 IXR-D1 48baseT 4SFP+ AC (FtoB)
3HE15626AA	PS - 7220 IXR-D1 48baseT 4SFP+ AC (BtoF)
3HE15629AA	PS - 7220 IXR-D1 48baseT 4SFP+ -48V DC (FtoB)
3HE15630AA	PS - 7220 IXR-D1 48baseT 4SFP+ -48V DC (BtoF)
3HE15631AA	FAN - 7220 IXR-D1 48baseT 4SFP+ Fan Tray (FtoB)
3HE15632AA	FAN - 7220 IXR-D1 48baseT 4SFP+ Fan Tray (BtoF)
3HE15641AA	1-port 100GBase FR Single Lambda SFP-DD Optics Module, 2km, LC Connector, RoHS 6/6 compliant, Digital Diagnostic Monitor (DDM), 0/70C
3HE15642AA	1-port 100GBase LR Single Lambda SFP-DD Optics Module, 10km, LC Connector, RoHS 6/6 compliant, Digital Diagnostic Monitor (DDM), 0/70C
3HE15643AA	7250 IXR-e PSU Impedance Panel five pack
3HE15644AA	7250 IXR-e Rack Mount Bracket ten pack
3HE15662CA	7250 IXR Large variants Release 22.x Operating Software License. Notes: One (1) Operating Software License is required for each IXR-6/10/R6/s/Xs/X1/X3/R6d/R6dl in the network. Includes programmed media with the Operating Software.
3HE15662CB	7250 IXR Large variants Release 22.x Operating Software License with ZTP enabled. Notes: One (1) Operating Software License is required for each IXR-6/10/R6/s/Xs/X1/X3/R6d/R6dl in the network. Includes programmed media with the Operating Software.
3HE15662DA	7250 IXR Large variants Release 23.x Operating Software License. Notes: One (1) Operating Software License is required for each IXR-6/10/R6/s/Xs/X1/X3/R6d/R6dl in the network. Includes programmed media with the Operating Software.

3HE15662DB	7250 IXR Large variants Release 23.x Operating Software License with ZTP enabled. Notes: One (1) Operating Software License is required for each IXR-6/10/R6/s/Xs/X1/X3/R6d/R6dl in the network. Includes programmed media with the Operating Software.
3HE15663CA	7250 IXR Medium variants Release 22.x Operating Software License. Notes: One (1) Operating Software License is required for each IXR-R4, IXR-e (2p 100G, 8p 25G, 24p 10G including GNSS variants) in the network. Includes programmed media with the Operating Software.
3HE15663CB	7250 IXR Medium variants Release 22.x Operating Software License with ZTP enabled. Notes: One (1) Operating Software License is required for each IXR-R4, IXR-e (2p 100G, 8p 25G, 24p 10G including GNSS variants) in the network. Includes programmed media with the Operating Software.
3HE15663DA	7250 IXR Medium variants Release 23.x Operating Software License. Notes: One (1) Operating Software License is required for each IXR-R4, IXR-e (2p 100G, 8p 25G, 24p 10G including GNSS variants) in the network. Includes programmed media with the Operating Software.
3HE15663DB	7250 IXR Medium variants Release 23.x Operating Software License with ZTP enabled. Notes: One (1) Operating Software License is required for each IXR-R4, IXR-e (2p 100G, 8p 25G, 24p 10G including GNSS variants) in the network. Includes programmed media with the Operating Software.
3HE15664CA	7250 IXR Small variants Release 22.x Operating Software License. Notes: One (1) Operating Software License is required for each IXR-e (14p 10G, 4p Tx including GNSS variants), IXR-ec in the network. Includes programmed media with the Operating Software.
3HE15664CB	7250 IXR Small variants Release 22.x Operating Software License with ZTP enabled. Notes: One (1) Operating Software License is required for each IXR-e (14p 10G, 4p Tx including GNSS variants), IXR-ec in the network. Includes programmed media with the Operating Software.
3HE15664DA	7250 IXR Small variants Release 23.x Operating Software License. Notes: One (1) Operating Software License is required for each IXR-e (14p 10G, 4p Tx including GNSS variants), IXR-ec in the network. Includes programmed media with the Operating Software.
3HE15664DB	7250 IXR Small variants Release 23.x Operating Software License with ZTP enabled. Notes: One (1) Operating Software License is required for each IXR-e (14p 10G, 4p Tx including GNSS variants), IXR-ec in the network. Includes programmed media with the Operating Software.
3HE15669AA	7750 SR-1s Modular + LVDC Power Shelf Bundle, 1.6T (supports two MDAs) Core Router feature set; Includes the following; (1) 3HE15417AA - SYS - SR-1s MODULAR 1.6T - CR DC (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module (2) 3HE11185AA - PSU - LVDC 6kw Power Supply 7750 SR-1s, 2x FP4 complex, performance to 1.6T FD. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers) This 7750 SR-1s is based off "3HE15421xA - SYS - SR-1s MODULAR 3.0T - DC" licensed to 1.6T throughput. Software scale upgradeable to ER or HE feature set. Hardware performance upgradeable from 1.6T to 3.4T or 3.0T

3HE15669BA	7750 SR-1s Modular + LVDC Power Shelf Bundle, 1.6T (supports two MDA-s) Edge Router feature set: Includes the following; (1) 3HE15417BA - SYS - SR-1s MODULAR 1.6T - ER DC (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module (2) 3HE11185AA - PSU - LVDC 6kw Power Supply 7750 SR-1s system, 2x FP4 complex, performance to 1.6T FD. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers) This card is based off “3HE15421xA - SYS - SR-1s MODULAR 3.0T - DC” licensed to 1.6T throughput. Software scale upgradeable to HE feature set. ~~Hardware performance upgradeable from 1.6T to 2.4T or 3.0T~~
3HE15669CA	7750 SR-1s Modular + LVDC Power Shelf Bundle, 1.6T (supports two MDA-s) High Scale Edge feature set; Includes the following; (1) 3HE15417CA - SYS - SR-1s MODULAR 1.6T - HE DC (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module (2) 3HE11185AA - PSU - LVDC 6kw Power Supply 7750 SR-1s system, 2x FP4 complex, performance to 1.6T FD. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers) This 7750 SR-1s is based off “3HE15421xA - SYS - SR-1s MODULAR 3.0T - DC” licensed to 1.6T throughput. Full High-Scale Edge feature set. Hardware performance upgradeable from 1.6T to 2.4T or 3.0T.
3HE15670AA	7750 SR-1s Modular + AC/HVDC Power Shelf Bundle, 1.6T (supports two MDA-s) Core Router feature set; Includes the following; (1) 3HE15418AA - SYS - SR-1s MODULAR 1.6T - CR AC (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module (2) 3HE11183AA - PSU - AC/HVDC 6kw Power Supply 7750 SR-1s, 2x FP4 complex, performance to 1.6T FD. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers) This 7750 SR-1s is based off “3HE15422xA - SYS - SR-1s MODULAR 3.0T - AC” licensed to 1.6T throughput. Software scale upgradeable to ER or HE feature set. ~~Hardware performance upgradeable from 1.6T to 2.4T or 3.0T~~

3HE15670BA	7750 SR-1s Modular + AC/HVDC Power Shelf Bundle, 1.6T (supports two MDA-s) Edge Router feature set; Includes the following; (1) 3HE15418BA - SYS - SR-1s MODULAR 1.6T - ER AC (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module (2) 3HE11183AA - PSU - AC/HVDC 6kw Power Supply 7750 SR-1s system, 2x FP4 complex, performance to 1.6T FD. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers) This card is based off “3HE15422xA - SYS - SR-1s MODULAR 3.0T - AC” licensed to 1.6T throughput. Software scale upgradeable to ER or HE feature set. ~~Hardware performance upgradeable from 1.6T to 2.4T or 3.0T.~~
3HE15670CA	7750 SR-1s Modular + AC/HVDC Power Shelf Bundle, 1.6T (supports two MDA-s) High Scale Edge feature set; Includes the following; (1) 3HE15418CA - SYS - SR-1s MODULAR 1.6T - HE AC (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module (2) 3HE11183AA - PSU - AC/HVDC 6kw Power Supply 7750 SR-1s system, 2x FP4 complex, performance to 1.6T FD. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers) This 7750 SR-1s is based off “3HE15422xA - SYS - SR-1s MODULAR 3.0T - AC” licensed to 1.6T throughput. Full High-Scale Edge feature set. ~~Hardware performance upgradeable from 1.6T to 2.4T or 3.0T.~~
3HE15671AA	7750 SR-1s Modular + LVDC Power Shelf Bundle, 2.4T (supports two MDA-s) Core Router feature set; Includes the following; (1) 3HE15419AA - SYS - SR-1s MODULAR 2.4T - CR DC (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module (2) 3HE11185AA - PSU - LVDC 6kw Power Supply 7750 SR-1s, 2x FP4 complex, performance to 2.4T FD. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers) This 7750 SR-1s is based off “3HE15422xA - SYS - SR-1s MODULAR 3.0T - AC” licensed to 2.4T throughput. Software scale upgradeable to ER or HE feature set. ~~Hardware performance upgradeable from 2.4T to 3.0T.~~

3HE15671BA	7750 SR-1s Modular + LVDC Power Shelf Bundle, 2.4T (supports two MDA-s) Edge Router feature set: Includes the following; (1) 3HE15419BA - SYS - SR-1s MODULAR 2.4T - ER DC (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module (2) 3HE11185AA - PSU - LVDC 6kw Power Supply 7750 SR-1s system, 2x FP4 complex, performance to 2.4T FD. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers) This card is based off “3HE15421xA - SYS - SR-1s MODULAR 3.0T - DC” licensed to 2.4T throughput. Software scale upgradeable to HE feature set. ~~Hardware performance upgradeable from 2.4T to 3.0T.~~
3HE15671CA	7750 SR-1s Modular + LVDC Power Shelf Bundle, 2.4T (supports two MDA-s) Edge Router feature set: Includes the following; (1) 3HE15419CA - SYS - SR-1s MODULAR 2.4T - HE DC (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module (2) 3HE11185AA - PSU - LVDC 6kw Power Supply 7750 SR-1s system, 2x FP4 complex, performance to 2.4T FD. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers) This 7750 SR-1s is based off “3HE15421xA - SYS - SR-1s MODULAR 3.0T - DC” licensed to 2.4T throughput. Full High-Scale Edge feature set. Hardware performance upgradeable from 2.4T to 3.0T.
3HE15672AA	7750 SR-1s Modular + AC/HVDC Power Shelf Bundle, 2.4T (supports two MDA-s) Core Router feature set; Includes the following; (1) 3HE15420AA - SYS - SR-1s MODULAR 2.4T - CR AC (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module (2) 3HE11183AA - PSU - AC/HVDC 6kw Power Supply 7750 SR-1s, 2x FP4 complex, performance to 2.4T FD. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers) This 7750 SR-1s is based off “3HE15422xA - SYS - SR-1s MODULAR 3.0T - AC” licensed to 2.4T throughput. Software scale upgradeable to ER or HE feature set. ~~Hardware performance upgradeable from 2.4T to 3.0T.~~

3HE15672BA	7750 SR-1s Modular + AC/HVDC Power Shelf Bundle, 2.4T (supports two MDA-s) Edge Router feature set; Includes the following; (1) 3HE15420BA - SYS - SR-1s MODULAR 2.4T - ER AC (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module (2) 3HE11183AA - PSU - AC/HVDC 6kw Power Supply 7750 SR-1s system, 2x FP4 complex, performance to 2.4T FD. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers) This card is based off “3HE13801xA - SYS - SR-1s MODULAR 3.0T - CR AC” licensed to 2.4T throughput. Software scale upgradeable to ER or HE feature set. ~~Hardware performance upgradeable from 2.4T to 3.0T.~~
3HE15672CA	7750 SR-1s Modular + AC/HVDC Power Shelf Bundle, 2.4T (supports two MDA-s) High-Scale Edge feature set; Includes the following; (1) 3HE15420CA - SYS - SR-1s MODULAR 2.4T - HE AC (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module (2) 3HE11183AA - PSU - AC/HVDC 6kw Power Supply 7750 SR-1s system, 2x FP4 complex, performance to 2.4T FD. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers) This 7750 SR-1s is based off “3HE15422xA - SYS - SR-1s MODULAR 3.0T - AC” licensed to 2.4T throughput. Full High-Scale Edge feature set. Hardware performance upgradeable from 2.4T to 3.0T.
3HE15673AA	7750 SR-1s Modular + LVDC Power Shelf Bundle, 3.0T (supports two MDA-s), Core Router feature set; Includes the following; (1) 3HE15421AA - SYS - SR-1s MODULAR 3.0T - CR DC (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module (2) 3HE11185AA - PSU - LVDC 6kw Power Supply 7750 SR-1s system, 2x FP4 complex, performance to 3.0T FD. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers) Software scale upgradeable to ER or HE feature set. ~~Hardware performance up to 3.0T FD.~~

3HE15673BA	7750 SR-1s Modular + LVDC Power Shelf Bundle, 3.0T (supports two MDA-s), Edge Router feature set: Includes the following; (1) 3HE15421BA - SYS - SR-1s MODULAR 3.0T - ER DC (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module (2) 3HE11185AA - PSU - LVDC 6kw Power Supply 7750 SR-1s system, 2x FP4 complex, performance to 3.0T FD. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers) Software scale upgradeable to HE feature set. Hardware performance up to 3.0T FD.
3HE15673CA	7750 SR-1s Modular + LVDC Power Shelf Bundle, 3.0T (supports two MDA-s), High Scale Edge feature set; Includes the following; (1) 3HE15421CA - SYS - SR-1s MODULAR 3.0T - HE DC (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module (2) 3HE11185AA - PSU - LVDC 6kw Power Supply 7750 SR-1s system, 2x FP4 complex, performance to 3.0T FD. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers) Full High-Scale Edge feature set. Hardware performance up to 3.0T FD.
3HE15674AA	7750 SR-1s Modular + AC/HVDC Power Shelf Bundle, 3.0T (supports two MDA-s), Core Router feature set; Includes the following; (1) 3HE15422AA - SYS - SR-1s MODULAR 3.0T - CR AC (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module (2) 3HE11183AA - PSU - AC/HVDC 6kw Power Supply 7750 SR-1s system, 2x FP4 complex, performance to 3.0T FD. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers) Software scale upgradeable to ER or HE feature set. Hardware performance up to 3.0T FD.

3HE15674BA	7750 SR-1s Modular + AC/HVDC Power Shelf Bundle, 3.0T (supports two MDA-s), Edge Router feature set: Includes the following; (1) 3HE15422BA - SYS - SR-1s MODULAR 3.0T - ER AC (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module (2) 3HE11183AA - PSU - AC/HVDC 6kw Power Supply 7750 SR-1s system, 2x FP4 complex, performance to 3.0T FD. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers) Software scale upgradeable to HE feature set. Hardware performance up to 3.0T FD.
3HE15674CA	7750 SR-1s Modular + AC/HVDC Power Shelf Bundle, 3.0T (supports two MDA-s), High Scale Edge feature set; Includes the following; (1) 3HE15422CA - SYS - SR-1s MODULAR 3.0T - HE AC (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module (2) 3HE11183AA - PSU - AC/HVDC 6kw Power Supply 7750 SR-1s system, 2x FP4 complex, performance to 3.0T FD. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers) Full High-Scale Edge feature set. Hardware performance up to 3.0T FD.
3HE15676AA	RTU - 7250 IXR SR Linux - Linecard license - one per deployed linecard.
3HE15700AA	7250 IXR-10 LVDC Complete chassis bundle including: (1) 3HE11770AA - CHAS - 7250 IXR-10 Chassis (4) 3HE11752AA - PSU - 7250 IXR LVDC (6) 3HE12446AA - SFM - 7250 IXR-10 SFM2 (2) 3HE12458AA - CPM - 7250 IXR CPM2 SSD (3) 3HE11769AA - FAN - 7250 IXR-10 Fan Tray
3HE15701AA	7250 IXR-6 LVDC complete chassis bundle including: (1) 3HE11760AA - CHAS - 7250 IXR-6 Chassis (2) 3HE11752AA - PSU - 7250 IXR LVDC (6) 3HE12382AA - SFM - 7250 IXR-6 SFM2 (2) 3HE12458AA - CPM - 7250 IXR CPM2 SSD (3) 3HE11759AA - FAN - 7250 IXR-6 Fan Tray
3HE15702AA	7250 IXR-10 AC/HVDC complete chassis bundle including: (1) 3HE11770AA - CHAS - 7250 IXR-10 Chassis (4) 3HE11751AA - PSU - 7250 IXR AC/HVDC (6) 3HE12446AA - SFM - 7250 IXR-10 SFM2 (2) 3HE12458AA - CPM - 7250 IXR CPM2 SSD (3) 3HE11769AA - FAN - 7250 IXR-10 Fan Tray
3HE15703AA	7250 IXR-6 AC/HVDC complete chassis bundle including: (1) 3HE11760AA - CHAS - 7250 IXR-6 Chassis (2) 3HE11751AA - PSU - 7250 IXR AC/HVDC (6) 3HE12382AA - SFM - 7250 IXR-6 SFM2 (2) 3HE12458AA - CPM - 7250 IXR CPM2 SSD (3) 3HE11759AA - FAN - 7250 IXR-6 Fan Tray
3HE15713AA	16F MMF MPO-MPO Patch Cable, 3M

3HE15714AA	16F MMF MPO-MPO Patch Cable, 10M
3HE15764AA	7750 SR 3-ports 10/40/100/400GBASE QSFP-DD MDA-e-XP, 4x100G break-out or 1x400G interfaces and can support a single 1x400G line-rate interface or up to two 1x400G interfaces clear-channel with iFIFO. Accepts three (3) 100G, 2x100G, 4x10, 1x40G and 10x10GBase Optic Module QSFP+/QSFP28/QSFP28-DD/QSFP56-DD.
3HE15774AA	7250 IXR-ec supporting 6 x 10GE SFP+, 20 x 1GE SFP and 4x1000/100 Mbps RJ45 ports. 1RU system. Dual-redundant -60/-48VDC power inputs. Fan Filter included.
3HE15774AB	7250 IXR-ec supporting 6 x 10GE SFP+, 20 x 1GE SFP and 4x1000/100/10 Mbps RJ45 ports. 1RU system. Dual-redundant 110/220 V AC power inputs. Fan Filter included.
3HE15775AA	7750 SR-1s + LVDC Power Shelf Bundle, 2.4T 24-port QSFP28 (supported QSFP+/QSFP28) Core Router feature set; Includes the following; (1) 3HE14648AA - SYS - SR-1s 2.4T 24pt QSFP28 - CR + LVDC (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module (2) 3HE11185AA - PSU - LVDC 6kw Power Supply 7750 SR-1s, 2x FP4 complex, performance restricted to 2.4T FD, port restricted to 24-connectors Universal QSFP28. Core Router (CR) scale feature set (1024 per complex = h/w queues, 1024 per complex = egress policers) This 7750 SR-1s is based off “3HE13800xA - SYS-SR-1s 2.4T 36pt QSFP28 to 3.6T DC” licensed to 2.4T throughput and 24-connectors hard license enabled. Software scale upgradeable to ER or HE feature set. Hardware performance upgradeable from 2.4T to 3.6T intelligent fan-in/fan-out.
3HE15775BA	7750 SR-1s + LVDC Power Shelf Bundle, 2.4T 24-port QSFP28 (supported QSFP+/QSFP28) Edge Router feature set: Includes the following; (1) 3HE14648BA - SYS - SR-1s 2.4T 24pt QSFP28 - ER + LVDC (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module (2) 3HE11185AA - PSU - LVDC 6kw Power Supply 7750 SR-1s system, 2x FP4 complex, performance restricted to 2.4T FD, port restricted to 24-connectors Universal QSFP28. Edge Router (ER) scale feature set (16 384 per complex = h/w queues, 16 384 per complex = egress policers) This card is based off “3HE13800xA - SYS-SR-1s 2.4T 36pt QSFP28 to 3.6T DC” licensed to 2.4T throughput and 24-connectors hard license enabled. Software scale upgradeable to HE feature set. Hardware performance upgradeable from 2.4T to 3.6T intelligent fan-in/fan-out.

3HE15775CA	7750 SR-1s + LVDC Power Shelf Bundle, 2.4T 24-port QSFP28 (supported QSFP+/QSFP28) Edge Router feature set: Includes the following; (1) 3HE14648CA - SYS - SR-1s 2.4T 24pt QSFP28 - HE + LVDC (5) 3HE12376AA - FAN - 7750 SR-1s Fan Module (2) 3HE11185AA - PSU - LVDC 6kw Power Supply 7750 SR-1s system, 2x FP4 complex, performance restricted to 2.4T FD, port restricted to 24-connectors Universal QSFP28. High-Scale Edge (HE) scale feature set (no restrict hardware queues or egress policers) This 7750 SR-1s is based off “3HE13800xA - SYS-SR-1s 2.4T 36pt QSFP28 to 3.6T DC” licensed to 2.4T throughput and 24-connectors hard license enabled. Full High-Scale Edge feature set. Hardware performance upgradeable from 2.4T to 3.6T intelligent fan-in/fan-out.
3HE15776AA	7750 SR-s CPM2 IMPEDANCE PANEL Impedance Panel, must be installed in every empty CPM slot.
3HE15779AA	FAN - 7220 IXR-D3 32QSFP28 2SFP+, FtoB
3HE15780AA	FAN - 7220 IXR-D2 48SFP28 8QSFP28, FtoB
3HE15781AA	FAN - 7220 IXR-D2 48SFP28 8QSFP28, BtoF
3HE15784AA	7250 IXR-X3 supporting 36 x 400 GE QSFP-DD ports 1 RU system. Ships with accessory kit. 2 x PSUs required for 1+1 power and 3 x fan trays required per system. Fans & PSUs sold separately.
3HE15785AA	7250 IXR-X1 supporting 32 x 100 GE QSFP28 + 4 x 400 GE QSFP-DD ports. 1RU system. Ships with accessory kit. 2 x PSUs required for 1+1 power and 3 x fan trays required per system. Fans & PSUs sold separately.
3HE15787AA	7250 IXR-X fan tray for 1 RU systems, front-to-back airflow.
3HE15789AA	7250 IXR-Xs supporting 6 x 400 GE QSFP-DD ports + 48 x 50 GE SFP56. 1RU System. Ships with a IXR-X 1RU accessory kit. 2 x PSUs required for 1+1 power and 3 x fan trays required per system. Fans & PSUs sold separately.
3HE15791AA	7250 IXR-X 1300W AC power supply with front-to-back airflow.
3HE15792AA	7250 IXR-X 1300W LVDC power supply with front-to-back airflow configuration
3HE15793AA	7250 IXR-X 2400W AC power supply with front-to-back airflow configuration
3HE15794AA	7250 IXR-X 2000W LVDC power supply with front-to-back airflow configuration

3HE15808CA	Release 22.x Operating Software License with support for base features and scaling. One (1) Operating Software License is required for each node in the network. Includes two (2) programmed 8GB Compact Flash cards and two (2) 8GB SD cards with the Operating Software. SR-OS License for the following Platforms; 7750 SR-a4/a8 7750 SR-1e/2e/3e 7750 SR-1/1x/7/12/12e 7750 SR-1s/1se/2s/2se/7s/14s 7950 XRS-16c/20/20e/40 Additional functionality and scale are available via additional licenses.
3HE15808DA	Release 23.x Operating Software License with support for base features and scaling. One (1) Operating Software License is required for each node in the network. Includes two (2) programmed 8GB Compact Flash cards and two (2) 8GB SD cards with the Operating Software. SR-OS License for the following Platforms; 7750 SR-a4/a8 7750 SR-1e/2e/3e 7750 SR-1/1x/7/12/12e 7750 SR-1s/1se/2s/2se/7s/14s 7950 XRS-20/20e/40 Additional functionality and scale are available via additional licenses.
3HE15809CA	Release 22.x ZTP - Zero Touch Provisioning - Operating Software License with support for base features and scaling. One (1) Operating Software License is required for each node in the network. Includes two (2) programmed 8GB Compact Flash cards and two (2) 8GB SD cards with the Operating Software. SR-OS License for the following Platforms; 7750 SR-1e 7750 SR-1 7750 SR-1s/2s/7s/14s Additional functionality and scale are available via additional licenses.
3HE15809DA	Release 23.x ZTP - Zero Touch Provisioning - Operating Software License with support for base features and scaling. One (1) Operating Software License is required for each node in the network. Includes two (2) programmed 8GB Compact Flash cards and two (2) 8GB SD cards with the Operating Software. SR-OS License for the following Platforms; 7750 SR-1e 7750 SR-1 7750 SR-1s/2s/7s/14s Additional functionality and scale are available via additional licenses.
3HE15866AA	RTU - 7220 IXR SR Linux - Base 20.x – one per system requiring base functionality

3HE15866BA	RTU - 7220 IXR SR Linux - Base 21.x – one per system requiring base functionality
3HE15866CA	RTU - 7220 IXR SR Linux - Base 22.x – one per system requiring base functionality
3HE15866DA	RTU - 7220 IXR SR Linux - Base 23.x – one per system requiring base functionality
3HE15867AA	RTU - 7220 IXR SR Linux - Services 20.x – one per system requiring services functionality (includes base functionality)
3HE15867BA	RTU - 7220 IXR SR Linux - Services 21.x – one per system requiring services functionality (includes base functionality)
3HE15867CA	RTU - 7220 IXR SR Linux - Services 22.x – one per system requiring services functionality (includes base functionality)
3HE15867DA	RTU - 7220 IXR SR Linux - Services 23.x – one per system requiring services functionality (includes base functionality)
3HE15868AA	RTU - 7220 IXR SR Linux - Advanced 20.x – one per system requiring advanced functionality (includes services and base functionality).
3HE15868BA	RTU - 7220 IXR SR Linux - Advanced 21.x – one per system requiring advanced functionality (includes services and base functionality).
3HE15868CA	RTU - 7220 IXR SR Linux - Advanced 22.x – one per system requiring advanced functionality (includes services and base functionality).
3HE15868DA	RTU - 7220 IXR SR Linux - Advanced 23.x – one per system requiring advanced functionality (includes services and base functionality).
3HE15869BA	RTU - 7220 IXR-D SR Linux - Enhanced Scale – one per system requiring enhanced scale
3HE15870BA	RTU - 7220 IXR-H SR Linux - Enhanced Scale – one per system requiring enhanced scale
3HE15879AA	7750 SR Mobile Gateway ISM-MG-C v2 Routing Plug-in Card, compute resources card
3HE15880AA	7750 SR Mobile Gateway ISM-MG-C-E v2 Routing Plug-in Card, compute resources card.
3HE15889AA	1-port 100GBase DR Single Lambda SFP-DD Optics Module, 500m, LC Connector, RoHS 6/6 compliant, Digital Diagnostic Monitor (DDM), 0/70C
3HE15896AA	AC Power Cable, IEC-60320-C14 to IEC-60320-C13 AUTO-LOCK, 3.05m (10ft) Long
3HE16090AA	SFP-DD 100G SR2 100m, MPO12, 0/70c
3HE16092AA	FAN - 7220 IXR-D3 32QSFP28 2SFP+, BtoF
3HE16193AA	ACC - Rail-Kit (fits 19" RM and 21" OR Rack) for 3HE15621AA 7220 IXR-D1 3HE15622AA 7220 IXR-D2 3HE15623AA 7220 IXR-D3 3HE16425AA 7220 IXR-H3

3HE16196AA	7750 SR-7s DC complete chassis bundle, shipped with all common hardware. Control Redundant. Includes: (1) 3HE11905AA - CHAS - 7750 SR-7s CHASSIS, (1) 3HE12560AA - CMA - 7750 SR-7s CMA2-7s, (2) 3HE12559AA - CPM - 7750 SR-s CPM2-14s/7s (4) 3HE11315AA - SFM - 7750 SR-7s/14s, (4) 3HE11312AA - FAN - 7750 SR-7s/14s FAN TRAY , (1) 3HE11180AA - CHAS - 7750 SR-7s/14s LVDC POWER SHELF, (3) 3HE11185AA - PSU - LVDC 6kw POWER SUPPLY, (1) 3HE11181AA - COM - 7750 SR-7s/14s COMMUNICATION CARD Note: LVDC Power Shelf includes the filler panels for the PSU. Additional items in which will need to be purchased separately are; Impedance Panels in all empty slots (XCM-s, XMA-s, CPM-s), LVDC power shelf accessory kit and power lug kit, and optional air filter door kit.
3HE16197AA	7750 SR-7s AC/HVDC complete chassis bundle, shipped with all common hardware. Control redundancy. Includes: (1) 3HE11905AA - CHAS - 7750 SR-7s CHASSIS, (1) 3HE12560AA - CMA - 7750 SR-7s CMA2-7s, (2) 3HE12559AA - CPM - 7750 SR-s CPM2-14s/7s (4) 3HE11315AA - SFM - 7750 SR-7s/14s, (4) 3HE11312AA - FAN - 7750 SR-7s/14s FAN TRAY, (1) 3HE11179AA - CHAS - 7750 SR-7s/14s AC/HVDC PWR SHELF (3) 3HE11183AA - PSU - AC/HVDC 6kw POWER SUPPLY, (1) 3HE11181AA - COM - 7750 SR-7s/14s COMMUNICATION CARD Note: AC/HVDC Power Shelf includes the filler panels for the PSU. Additional items in which will need to be purchased separately are; Impedance Panels in all empty slots (XCM-s, XMA-s, CPM-s), AC/HVDC power shelf accessory kit, Power Cords and optional air filter door kit.
3HE16198AA	7750 SR-7s DC complete chassis bundle, shipped with all common hardware. No control redundancy. Includes: (1) 3HE11905AA - CHAS - 7750 SR-7s CHASSIS, (1) 3HE12560AA - CMA - 7750 SR-7s CMA2-7s, (1) 3HE12559AA - CPM - 7750 SR-s CPM2-14s/7s, (4) 3HE11315AA - SFM - 7750 SR-7s/14s, (4) 3HE11312AA - FAN - 7750 SR-7s/14s FAN TRAY, (1) 3HE11180AA - CHAS - 7750 SR-7s/14s LVDC POWER SHELF, (3) 3HE11185AA - PSU - LVDC 6kw POWER SUPPLY, (1) 3HE11181AA - COM - 7750 SR-7s/14s COMMUNICATION CARD Note: LVDC Power Shelf includes the filler panels for the PSU. Additional items in which will need to be purchased separately are; Impedance Panels in all empty slots (XCM-s, XMA-s, CPM-s), LVDC power shelf accessory kit and power lug kit, and optional air filter door kit.

3HE16199AA	7750 SR-7s AC/HVDC complete chassis bundle, shipped with all common hardware. No control redundancy. Includes: (1) 3HE11905AA - CHAS - 7750 SR-7s CHASSIS, (1) 3HE12560AA - CMA - 7750 SR-7s CMA2-7s, (1) 3HE12559AA - CPM - 7750 SR-s CPM2-14s/7s, (4) 3HE11315AA - SFM - 7750 SR-7s/14s, (4) 3HE11312AA - FAN - 7750 SR-7s/14s FAN TRAY, (1) 3HE11179AA - CHAS - 7750 SR-7s/14s AC/HVDC PWR SHELF, (3) 3HE11183AA - PSU - AC/HVDC 6kw POWER SUPPLY, (1) 3HE11181AA - COM - 7750 SR-7s/14s COMMUNICATION CARD Note: AC/HVDC Power Shelf includes the filler panels for the PSU. Additional items in which will need to be purchased separately are; Impedance Panels in all empty slots (XCM-s, XMA-s, CPM-s), AC/HVDC power shelf accessory kit, Power Cords and optional air filter door kit.
3HE16200AA	7750 SR-14s DC complete chassis bundle, shipped with all common hardware. Includes: (1) 3HE11301AA - CHAS - 7750 SR-14s CHASSIS, (1) 3HE12561AA - CMA - 7750 SR-14s CMA2-14s, (2) 3HE12559AA - CPM - 7750 SR-s CPM2-14s/7s (8) 3HE11315AA - SFM - 7750 SR-7s/14s, (8) 3HE11312AA - FAN - 7750 SR-7s/14s FAN TRAY, (1) 3HE11180AA - CHAS - 7750 SR-7s/14s LVDC POWER SHELF, (5) 3HE11185AA - PSU - LVDC 6kw POWER SUPPLY, (1) 3HE11181AA - COM - 7750 SR-7s/14s COMMUNICATION CARD Note: LVDC Power Shelf includes the filler panels for the PSU. Additional items in which will need to be purchased separately are; Impedance Panels in all empty slots (XCM-s, XMA-s, CPM-s), LVDC power shelf accessory kit and power lug kit, and optional air filter door kit.
3HE16201AA	7750 SR-14s AC/HVDC complete chassis bundle, shipped with all common hardware. Includes: (1) 3HE11301AA - CHAS - 7750 SR-14s CHASSIS, (1) 3HE12561AA - CMA - 7750 SR-14s CMA2-14s, (2) 3HE12559AA - CPM - 7750 SR-s CPM2-14s/7s (8) 3HE11315AA - SFM - 7750 SR-7s/14s, (8) 3HE11312AA - FAN - 7750 SR-7s/14s FAN TRAY, (1) 3HE11179AA - CHAS - 7750 SR-7s/14s AC/HVDC PWR SHELF, (5) 3HE11183AA - PSU - AC/HVDC 6kw POWER SUPPLY, (1) 3HE11181AA - COM - 7750 SR-7s/14s COMMUNICATION CARD Note: AC/HVDC Power Shelf includes the filler panels for the PSU. Additional items in which will need to be purchased separately are; Impedance Panels in all empty slots (XCM-s, XMA-s, CPM-s), AC/HVDC power shelf accessory kit, Power Cords and optional air filter door kit.

3HE16210AA	7220 IXR-D1 with 1 PS AC, FtoB complete chassis bundle with all common hardware including: (1) 3HE15621AA - SYS - 7220 IXR-D1 48baseT 4SFP+ (1) 3HE15625AA - PS - 7220 IXR-D1 48baseT 4SFP+ AC, FtoB (3) 3HE15631AA - FAN - 7220 IXR-D1 48baseT 4SFP+, FtoB
3HE16211AA	7220 IXR-D1 with 1 PS AC, BtoF complete chassis bundle with all common hardware including: (1) 3HE15621AA - SYS - 7220 IXR-D1 48baseT 4SFP+ (1) 3HE15626AA - PS - 7220 IXR-D1 48baseT 4SFP+ AC, BtoF (3) 3HE15632AA - FAN - 7220 IXR-D1 48baseT 4SFP+, BtoF
3HE16212AA	7220 IXR-D1 with 1 PS DC, FtoB complete chassis bundle with all common hardware including: (1) 3HE15621AA - SYS - 7220 IXR-D1 48baseT 4SFP+ (1) 3HE15629AA - PS - 7220 IXR-D1 48baseT 4SFP+ DC, FtoB (3) 3HE15631AA - FAN - 7220 IXR-D1 48baseT 4SFP+, FtoB
3HE16213AA	7220 IXR-D1 with 1 PS DC, BtoF complete chassis bundle with all common hardware including: (1) 3HE15621AA - SYS - 7220 IXR-D1 48baseT 4SFP+ (1) 3HE15630AA - PS - 7220 IXR-D1 48baseT 4SFP+ DC, BtoF (3) 3HE15632AA - FAN - 7220 IXR-D1 48baseT 4SFP+, BtoF
3HE16214AA	7220 IXR-D2 with 1 PS AC, FtoB complete chassis bundle with all common hardware including: (1) 3HE15622AA - SYS - 7220 IXR-D2 48SFP28 8QSFP28 (1) 3HE11886AA - PS - 210 WBX AC (FtoB) (4) 3HE15780AA - FAN - 7220 IXR-D2 48SFP28 8QSFP28, FtoB
3HE16215AA	7220 IXR-D2 with 1 PS AC, BtoF complete chassis bundle with all common hardware including: (1) 3HE15622AA - SYS - 7220 IXR-D2 48SFP28 8QSFP28 (1) 3HE11885AA - PS - 210 WBX AC (BtoF) (4) 3HE15781AA - FAN - 7220 IXR-D2 48SFP28 8QSFP28, BtoF
3HE16216AA	7220 IXR-D2 with 1 PS DC, FtoB complete chassis bundle with all common hardware including: (1) 3HE15622AA - SYS - 7220 IXR-D2 48SFP28 8QSFP28 (1) 3HE10837AA - PS - 210 WBX, 7210 Sx 100G -48VDC (FtoB) (4) 3HE15780AA - FAN - 7220 IXR-D2 48SFP28 8QSFP28, FtoB
3HE16217AA	7220 IXR-D2 with 1 PS DC, BtoF complete chassis bundle with all common hardware including: (1) 3HE15622AA - SYS - 7220 IXR-D2 48SFP28 8QSFP28 (1) 3HE11883AA - PS - 210 WBX -48V DC (BtoF) (4) 3HE15781AA - FAN - 7220 IXR-D2 48SFP28 8QSFP28, BtoF
3HE16218AA	7220 IXR-D3 with 1 PS AC, FtoB complete chassis bundle with all common hardware including: (1) 3HE15623AA - SYS - 7220 IXR-D3 32QSFP28 2SFP+ (1) 3HE11886AA - PS - 210 WBX AC (FtoB) (5) 3HE15779AA - FAN - 7220 IXR-D3 32QSFP28 2SFP+, FtoB
3HE16219AA	7220 IXR-D3 with 1 PS AC, BtoF complete chassis bundle with all common hardware including: (1) 3HE15623AA - SYS - 7220 IXR-D3 32QSFP28 2SFP+ (1) 3HE11885AA - PS - 210 WBX AC (BtoF) (5) 3HE16092AA - FAN - 7220 IXR-D3 32QSFP28 2SFP+, BtoF

3HE16220AA	7220 IXR-D3 with 1 PS DC, FtoB complete chassis bundle with all common hardware including: (1) 3HE15623AA - SYS - 7220 IXR-D3 32QSFP28 2SFP+ (1) 3HE10837AA - PS - 210 WBX, 7210 Sx 100G -48VDC (FtoB) (5) 3HE15779AA - FAN - 7220 IXR-D3 32QSFP28 2SFP+, FtoB
3HE16221AA	7220 IXR-D3 with 1 PS DC, BtoF complete chassis bundle with all common hardware including: (1) 3HE15623AA - SYS - 7220 IXR-D3 32QSFP28 2SFP+ (1) 3HE11883AA - PS - 210 WBX -48V DC (BtoF) (5) 3HE16092AA - FAN - 7220 IXR-D3 32QSFP28 2SFP+, BtoF
3HE16426AA	PS - 7220-H2 128QSFP28 -48VDC, FtoB
3HE16427AA	PS - 7220-H2 128QSFP28 -48VDC, BtoF
3HE16428AA	PS - 7220-H2 128QSFP28 AC, FtoB
3HE16429AA	PS - 7220-H2 128QSFP28 AC, BtoF
3HE16430AA	FAN - 7220-H2 128QSFP28, FtoB
3HE16431AA	FAN - 7220-H2 128QSFP28, BtoF
3HE16432AA	PS - 7220-H3 32QSFDD -48VDC, FtoB
3HE16433AA	PS - 7220-H3 32QSFDD -48VDC, BtoF
3HE16434AA	PS - 7220-H3 32QSFDD AC, FtoB
3HE16435AA	PS - 7220-H3 32QSFDD AC, BtoF
3HE16436AA	FAN - 7220-H3 32QSFDD, FtoB
3HE16437AA	FAN - 7220-H3 32QSFDD, BtoF
3HE16448AA	1-port STM-1/E1 CSoP over GE, 155Mb/s, Single Mode Fiber (SMF), 15km, 1310 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant, Extended Temperature -40/85C
3HE16455AA	This RTU is required to enable IPsec bandwidth in increments of 100 Mbps for IMIX traffic distribution on ESA; One (1) license is required for every increment of 100 Mbps of IPsec encryption capacity on ESA per SR. Multiple RTUs may be applied to a single SR to allow the required bandwidth scale.
3HE16456AA	This RTU is required to enable IPsec tunnel scale in increments of 1,000 on ESA; One (1) license is required for every increment of 1,000 IPsec tunnels on ESA per SR. Multiple RTUs may be applied to a single SR to allow the required tunnel scale.
3HE16457AA	This RTU is required to enable multi-chassis IPsec redundancy on ESA, One (1) license is required for every ESA-VM that uses the feature
3HE16493AA	SROS license to be able to use the MS-ISA for Perfect Stream. This license can repair 50 channels total (50x2 ingress video stream). Additional licenses are required for each video application. A Per system license. The "Video Base license" is required
3HE16499AA	Deepfield Maintenance and Support Service, Bronze
3HE16500AA	Deepfield Installation. Can be used to bill for range of installation services, including physical and remote installs, and misc. onsite support.
3HE16507AA	7250 IXR-X fan tray for 1 RU systems, back-to-front airflow.
3HE16509AA	7250 IXR-X 2000W LVDC power supply with back-to-front airflow configuration
3HE16510AA	7250 IXR-s DC power cable 5-pack. 6m (19.7').
3HE16511AA	Spare SD card (8GB). -40 to 85C, SLC.
3HE16512AA	1RU kit to convert the 7250 IXR-e airflow from right-to-left to front-to-back. Note that there may be limitation that apply when using this. Refer to install manuals for details.

3HE16553AA	1-port 25GBASE-Tunable DWDM Small Form-Factor Pluggable+ (SFP28) Optics Module, Single Mode Fiber (SMF), 15km, 40-Channel 1529.55 to 1560.61 nm 100GHz spaced DWDM (ITU 196.0 to 192.1 THz), LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant, Temperature 0/70C
3HE16557AA	1-port 100GBase LR Single Lambda QSFP28 Optics Module, 10km, LC Connector, RoHS 6/6 compliant, Digital Diagnostic Monitor (DDM), 0/70C
3HE16558AA	1-port 100GBase ZR4 (RS-FEC required) QSFP28 Optics Module, 80km, LC Connector, RoHS 6/6 compliant, Digital Diagnostic Monitor (DDM), 0/70C
3HE16564AA	1-port 400G ZR QSFP-DD pluggable, SMF, 400G Coherent tunable DWDM, OIF-400ZR Amplified, LC Connector, 1528.77 to 1563.86nm, DWDM Grid (ITU 196.1 to 191.7 THz), 0/70C
3HE16565AA	1-port 400G ZR+ QSFP-DD pluggable, SMF, 400G Coherent tunable DWDM, Open ZR+ Amplified, 1528.77 to 1563.86nm, DWDM Grid (ITU 196.1 to 191.7 THz), 0/70C
3HE16568AA	1-port 400GBase LR4 QSFP56-DD Optics Module, 10km, LC Connector, RoHS 6/6 compliant, Digital Diagnostic Monitor (DDM)
3HE16603AA	SYS-7250 IXR-e 24SFP+ 8SFP28 2QSFP28 AC Bundle Includes: (1) 3HE15386AA SYS - 7250 IXR-e 24SFP+ 8SFP28 2QSFP28 GNSS (2) 3HE14784AA PS - 7250 IXR-e AC Software image and AC Power Cables Not included
3HE16604AA	SYS-7250 IXR-e 24SFP+ 8SFP28 2QSFP28 DC Bundle Includes: (1) 3HE15386AA SYS - 7250 IXR-e 24SFP+ 8SFP28 2QSFP28 GNSS (2) 3HE14785AA PS - 7250 IXR-e DC Software image Not included
3HE16605AA	SYS-7250 IXR-e 14SFP+ 4T AC Bundle Includes (1) 3HE15387AA SYS - 7250 IXR-e 14 SFP+ + 4TX GNSS (2) 3HE14784AA PS - 7250 IXR-e AC Software image and AC Power Cables Not included
3HE16606AA	SYS-7250 IXR-e 14SFP+ 4T DC Bundle Includes (1) 3HE15387AA SYS - 7250 IXR-e 14 SFP+ + 4TX GNSS (2) 3HE14785AA PS - IXR-e DC Software image Not included
3HE16662AA	ACC - Rail-Kit for 7220 IXR-H2
3HE16686AA	7250 IXR-X 1800W AC power supply with back-to-front airflow configuration
3HE16704AA	7250 IXR-R6d and IXR-R6dl control processor and input/output module (CPIOM). Includes integrated GNSS and other control interfaces. At least 1 CPIOM per system is required, or 2 for redundancy.
3HE16706AA	7250 IXR-R6d 4RU system fan tray.
3HE16707AA	7250 IXR-R6dl 7RU system fan tray.
3HE16708AA	7250 IXR-R6d 4RU system chassis. Dual-power feed -48/60 VDC. ETR. 2 x CPIOM, 6 MDA, 1 fan tray and 1 fan filter slots. MDA slots 1-4 provide up to 500 Gb/s each, and slots 5-6 provide up to 300 Gb/s each. Ships with an IXR-R6d accessory kit and a single fan filter. CPIOMs, MDAs, fan tray, impedance panels, software licenses, accessories, etc. are sold separately.
3HE16709AA	7250 IXR-R6dl 7RU system chassis. Dual-power feed -48/60 VDC. ETR. 2 x CPIOM, 6 MDA, 1 fan tray and 1 fan filter slots. MDA slots 1-4 provide up to 500 Gb/s each, and slots 5-6 provide up to 300 Gb/s each. Ships with an IXR-R6dl accessory kit and a single fan filter. CPIOMs, MDAs, fan tray, impedance panels, software licenses, accessories, etc. are sold separately.
3HE16710AA	7250 IXR-R6dl 7RU system 5 x fan filter replacements.

3HE16711AA	7250-IXR-R6d/R6dl Accessories Kit. Note that this ships with every chassis and is intended as a replacement only.
3HE16712AA	7250 IXR-R6d MDA with 15 x SFP28 + 3 x SFP+. Can also be used for up to 18 x SFP+ ports. Applicable to slots 1-4 only for 15 x SFP28, but can be used with limitations in slots 5 and 6.
3HE16712AB	7250 IXR-R6dl MDA with 15 x SFP28 + 3 x SFP+. Can also be used for up to 18 x SFP+ ports. Applicable to slots 1-4 only for 15 x SFP28, but can be used with limitations in slots 5 and 6.
3HE16713AA	7250 IXR-R6d MDA with 20 x SFP+/SFP. Applicable to all slots.
3HE16713AB	7250 IXR-R6dl MDA with 20 x SFP+/SFP. Applicable to all slots.
3HE16715AA	7250 IXR-R6d MDA with 10 x SFP56/SFP28/SFP+. Supports up to 10 x 50G in slots 1-4 or 10 x 25G in slots 5-6.
3HE16715AB	7250 IXR-R6dl MDA with 10 x SFP56/SFP28/SFP+. Supports up to 10 x 50G in slots 1-4 or 10 x 25G in slots 5-6.
3HE16716AA	7250 IXR-R6d MDA with 5 x QSFP28/QSFP+ ports. 5-ports enabled in slots 1-4, and 3 ports in slots 5-6.
3HE16716AB	7250 IXR-R6dl MDA with 5 x QSFP28/QSFP+ ports. 5-ports enabled in slots 1-4, and 3 ports in slots 5-6.
3HE16717AA	7250 IXR-R6d MDA with 1 x QSFP56-DD plus 1 x QSFP28 ports. Applicable to all slots, with limitations in slots 5 and 6.
3HE16717AB	7250 IXR-R6dl MDA with 1 x QSFP56-DD plus 1 x QSFP28 ports. Applicable to slots 1-4 only.
3HE16718AA	7250 IXR-R6d MDA with 2 x CFP2. Applicable to all slots, with limitations in slots 5 and 6.
3HE16718AB	7250 IXR-R6dl MDA with 2 x CFP2
3HE16720AA	7250 IXR-R6dl MDA with up to 45 x SFP+/SFP + 1 x SFP in slots 1-4. Supported by all slots, with limitations in slots 5-6.
3HE16737AA	CPIOM Impedance Panel. Required for any CPIOM slot that is not populated with a CPIOM.
3HE16737AA	CPIOM Impedance Panel. Required for any CPIOM slot that is not populated with a CPIOM.
3HE16738AA	7250 IXR-R6d MDA impedance panel. Required for every MDA slot that is not populated with an MDA.
3HE16739AA	7250 IXR-R6d 4RU system 5 x fan filter replacements.
3HE16741AA	7250 IXR-R6dl MDA impedance panel. Required for every MDA slot that is not populated with an MDA.
3HE16750AA	Power jumper designed for the 7250 IXR-R6d/R6dl, with 1RU rack mount bracket
3HE16751AA	40 dB Dual-band GNSS antenna for 7250 IXR-R6d/R6dl. Includes mounting bracket hardware.
3HE16752AA	26 dB Dual-band GNSS for 7250 IXR-R6d/R6dl. Includes mounting bracket hardware.
3HE16797AA	1-port 100GBASE-BX20-U (Up-Stream) Bi-Directional (BiDi) Quad Small Form-Factor Pluggable (QSFP28) Optics Module, Single Mode Fiber (SMF), 20km, TX: 1273.55, 1277.89, 1282.26, 1286.66 nm, RX: 1295.56, 1300.05, 1304.58, 1309.14 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 Compliant, Temperature -20/85C
3HE16797AB	1-port 100GBASE-BX20-D (Down-Stream) Bi-Directional (BiDi) Quad Small Form-Factor Pluggable (QSFP28) Optics Module, Single Mode Fiber (SMF), 20km, TX:1295.56, 1300.05, 1304.58, 1309.14 nm, RX:1273.55, 1277.89, 1282.26, 1286.66 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 Compliant, Temperature -20/85C

3HE16839AA	7250 IEEE 1588 PTP Freq & Time/Phase Right To Use license. Applicable to 1588 Slave or Boundary or Grandmaster Clocks. OAM performance can be improved with PTP time accuracy Notes: One (1) Operating Software License is required for each IXR-6/10/R6/s/Xs/X1 in the network.
3HE16840AA	7250 IEEE 1588 PTP Freq & Time/Phase Right To Use license. Applicable to 1588 Slave or Boundary or Grandmaster Clocks. OAM performance can be improved with PTP time accuracy Notes: One (1) Operating Software License is required for each IXR-R4, IXR-e (2p 100G, 8p 25G, 24p 10G including GNSS variants) in the network.
3HE16841AA	7250 IEEE 1588 PTP Freq & Time/Phase Right To Use license. Applicable to 1588 Slave or Boundary or Grandmaster Clocks. OAM performance can be improved with PTP time accuracy Notes: One (1) Operating Software License is required for each IXR-e (14p 10G, 4p Tx including GNSS variants), IXR-ec, in the network.
3HE16991AA	7250 IXR-10e Switch Fabric Module 2 (SFM2-IXR-10e) - (Spare)
3HE16992AA	7250 IXR-6e Switch Fabric Module 3 (SFM2-IXR-6e) - (Spare)
3HE16993AA	7250 IXR-10e Fan Tray - (Spare)
3HE16994AA	7250 IXR-6e Fan Tray - (Spare)
3HE16995AA	7250 IXR-6e/10e IMM2 with 60-port 100 GE QSFP28. SRL only. Pluggables sold separately.
3HE16997AA	7250 IXR-10e chassis - (Spare)
3HE16998AA	7250 IXR-6e chassis - (Spare)
3HE16999AA	7250 IXR 6e/10e CPM Impedance Panel. Required if a single CPM is used.
3HE17000AA	7250 IXR 6e/10e IMM Impedance Panel. Required in every slot not populated by an IMM.
3HE17001AA	7250 IXR 6e/10e PSU Impedance Panel. Required in every PSU slot not populated by a PSU.
3HE17002AA	7250 IXR 6e/10e Power Supply Unit. 3KW AC power supply (200 to 240V AC). 80-plus Titanium rated (94% efficiency)
3HE17003AA	7250 IXR 6e/10e Power Supply Unit. 3KW LVDC power supply, -48V DC
3HE17005AA	7250 IXR-10e Switch Fabric Module 1 (SFM1-IXR-10e) - (Spare)
3HE17006AA	7250 IXR-6e/10e IMM2 with 36-port 400 GE QSFP-DD. SRL only. Pluggables sold separately.
3HE17008AA	The 7250 IXR-10e system accessory kit includes the following. (1) Console Cable (CB-9 to RJ-45) (26) 12-24 Phillips Panhead – Rack Mounting Screws (20) 6-32 x 1/2" Phillips Flathead Screw – Ejector Bar Screws (1) Two-hole Straight Ground Lug (2 AWG) (2) 1/4 – 20 Conical Keps Nuts – Ground Lug (20) 8-32 x 1/4 Phillips Flathead Screw – Rear Mounting (12) Countersunk Shoulder Screw – Rear Mounting (2) Rear Mounting Bracket (2) Rear Mounting Slider (1) ESD Wrist Strap (6 ft Coil Cord) (2) SD card covers

3HE17009AA	The 7250 IXR-6e system accessory kit includes the following. (1) Console Cable (CB-9 to RJ-45) (20) 12-24 Phillips Panhead – Rack Mounting Screws (12) 6-32 x 1/2" Phillips Flathead Screw – Ejector Bar Screws (1) Two-hole Straight Ground Lug (2 AWG) (2) 1/4 – 20 Conical Keps Nuts – Ground Lug (20) 8-32 x 1/4 Phillips Flathead Screw – Rear Mounting (12) Countersunk Shoulder Screw – Rear Mounting (2) Rear Mounting Bracket (2) Rear Mounting Slider (1) ESD Wrist Strap (6 ft Coil Cord) (2) SD card covers
3HE17011AA	7250 IXR Control Processor Module (CPM4-IXR SSD) with 120 GB SSD - (Spare)
3HE17013AA	7250 IXR-6e/10e Spare Accessory kit Cleaning tool, honeycomb. Enough for 6 x IXR-10e systems tool; contains: • handle x 1 • left tape stack assembly x 6 • right tape stack assembly x 6 • rectangular tape stack assembly x 6 • roller assembly x 6
3HE17014AA	7250 IXR-6e Filter Door Hardware kit. Ships with one filter media.
3HE17015AA	7250 IXR-10e Filter Door Hardware kit. Ships with one filter media.
3HE17027AA	ACC - IXR-10e REPLACEMENT AIR FILTER (5 PACK)
3HE17028AA	ACC - IXR-6e REPLACEMENT AIR FILTER (5 PACK)
3HE17067AA	4-port 100GBase QSFP56-DD Optics Module, 10km, MPO12 Connector, RoHS 6/6 compliant, Digital Diagnostic Monitor (DDM)
3HE17068AA	1-port 400GBase ER8 40km QSFP56-DD Optics Module, 40km, LC Connector, RoHS 6/6 compliant, Digital Diagnostic Monitor (DDM)
3HE17069AA	1-port 100GBase 4WDM QSFP28 Optics Module, 40km, LC Connector, RoHS 6/6 compliant, Digital Diagnostic Monitor (DDM), -40/85C
3HE17071AA	SROS 7x50 SR/ESS/XRS 1GE Port License - One of these RTUs is required for each 1GE or 100M port enabled on a 7750 SR/7450 ESS/7950 XRS
3HE17072AA	SROS 7x50 SR/ESS/XRS 10GE Port License - One of these RTUs is required for each 10GE port enabled on a 7750 SR/7450 ESS/7950 XRS; when using a connector that breaks out to multiple ports, a license is required for each port enabled on the connector
3HE17073AA	SROS 7x50 SR/ESS/XRS 25GE Port License - One of these RTUs is required for each 25GE port enabled on a 7750 SR/7450 ESS/7950 XRS; when using a connector that breaks out to multiple ports, a license is required for each port enabled on the connector
3HE17074AA	SROS 7x50 SR/ESS/XRS 40GE Port License - One of these RTUs is required for each 40GE port enabled on a 7750 SR/7450 ESS/7950 XRS
3HE17076AA	SROS 7x50 SR/ESS/XRS 100GE Port License - One of these RTUs is required for each 100GE port enabled on a 7750 SR/7450 ESS/7950 XRS; when using a connector that breaks out to multiple ports, a license is required for each port enabled on the connector
3HE17077AA	SROS 7x50 SR/ESS/XRS 400GE Port License - One of these RTUs is required for each 400GE port enabled on a 7750 SR/7450 ESS/7950 XRS
3HE17078AA	SROS 7250 IXR 1GE Port License - One of these RTUs is required for each 1GE or 100M port enabled on a 7250 IXR.

3HE17079AA	SROS 7250 IXR 10GE Port License - One of these RTUs is required for each 10GE port enabled on a 7250 IXR; when using a connector that breaks out to multiple ports, a license is required for each port enabled on the connector.
3HE17080AA	SROS 7250 IXR 25GE Port License - One of these RTUs is required for each 25GE port enabled on a 7250 IXR; when using a connector that breaks out to multiple ports, a license is required for each port enabled on the connector.
3HE17081AA	SROS 7250 IXR 40GE Port License - One of these RTUs is required for each 40GE port enabled on a 7250 IXR.
3HE17083AA	SROS 7250 IXR 100GE Port License - One of these RTUs is required for each 100GE port enabled on a 7250 IXR; when using a connector that breaks out to multiple ports, a license is required for each port enabled on the connector.
3HE17085AA	SROS 7250 IXR 400GE Port License - One of these RTUs is required for each 400GE port enabled on a 7250 IXR.
3HE17172AA	Filter door kit for 7250 IXR-10 chassis (3HE11770AA). Include one fan filter. Replacement filters sold separately.
3HE17173AA	6-pack of air filters for 7250 IXR-10 filter door.
3HE17174AA	Filter door kit for 7250 IXR-6 chassis (3HE11760AA). Include one fan filter. Replacement filters sold separately.
3HE17175AA	6-pack of air filters for 7250 IXR-6 filter door.
3HE17186AA	32GB USB SLC Flash drive. I-TEMP -40 to 85C and SLC.
3HE17189AA	1-port 100GBase ER4 QSFP28 Optics Module, 40km, LC Connector, RoHS 6/6 compliant, Digital Diagnostic Monitor (DDM), 0/70C
3HE17191AA	7250 IXR-X1 F2B chassis bundle with AC PSUs, includes: (1) 3HE15785AA - 7250 IXR-X1 32P QSFP28+4P QSFP-DD (3) 3HE15787AA - 7250 IXR-X 1RU Fan Tray (F2B) (2) 3HE15791AA - 7250 IXR-X 1300W AC (F2B)
3HE17192AA	7250 IXR-X1 B2F chassis bundle with AC PSUs, includes: (1) 3HE15785AA - 7250 IXR-X1 32P QSFP28+4P QSFP-DD (3) 3HE16507AA - 7250 IXR-X 1RU Fan Tray (B2F) (2) 3HE16686AA - 7250 IXR-X 1800W AC (B2F)
3HE17193AA	7250 IXR-Xs F2B chassis bundle with AC PSUs, includes: (1) 3HE15789AA - 7250 IXR-Xs 6P QSFP-DD+48P SFP56 (3) 3HE15787AA - 7250 IXR-X 1RU Fan Tray (F2B) (2) 3HE15791AA - 7250 IXR-X 1300W AC (F2B)
3HE17194AA	7250 IXR-Xs B2F chassis bundle with AC PSUs, includes: (1) 3HE15789AA - 7250 IXR-Xs 6P QSFP-DD+48P SFP56 (3) 3HE16507AA - 7250 IXR-X 1RU Fan Tray (B2F) (2) 3HE16686AA - 7250 IXR-X 1800W AC (B2F)
3HE17298AA	SYS - 7210 SAS-Dxp-16p DINrail 4F10Tp2SFP+ PSU not include and must be ordered separately
3HE17299AA	SYS - 7210 SAS-Dxp-24p DINrail 6F16Tp2SFP+ PSU not include and must be ordered separately
3HE17300AA	PS - 7210 SAS-Dxp-16p/24p 480W AC
3HE17301AA	PS - 7210 SAS-Dxp-16p/24p 290W 24/48VDC
3HE17302AA	PS - 7210 SAS-Dxp-16p/24p 960W AC
3HE17415AA	VSR-a HN7 R22 AC Appliance is a configuration which includes one (1) HPE Server Node 7 AC server including a HostOS RHEL Subscription. This bundle does not include cables such as power, console or Cat6 nor does it include SFP+/QSFP hardware. The base VSR-a license and all application specific VSR licenses and QoS licenses (min. 1 Gbps basic QoS) are required to be purchased in addition to the base system.

3HE17416AA	VSR-a HN7 R22 DC Appliance is a configuration which includes one (1) HPE Server Node 7 DC server including a HostOS RHEL Subscription. This bundle does not include cables such as power, console or Cat6 nor does it include SFP+/QSFP hardware. The base VSR-a license and all application specific VSR licenses and QoS licenses (min. 1 Gbps basic QoS) are required to be purchased in addition to the base system.
3HE17417AA	VSR-a HN8 R22 AC Appliance is a configuration which includes one (1) HPE Server Node 8 AC server including a HostOS RHEL Subscription. This bundle does not include cables such as power, console or Cat6 nor does it include SFP+/QSFP hardware. The base VSR-a license and all application specific VSR licenses and QoS licenses (min. 10 Gbps basic QoS) are required to be purchased in addition to the base system.
3HE17418AA	VSR-a HN8 R22 DC Appliance is a configuration which includes one (1) HPE Server Node 8 DC server including a HostOS RHEL Subscription. This bundle does not include cables such as power, console or Cat6 nor does it include SFP+/QSFP hardware. The base VSR-a license and all application specific VSR licenses and QoS licenses (min. 10 Gbps basic QoS) are required to be purchased in addition to the base system.
3HE17441AA	7250 IXR-X 2400W DC power supply with front-to-back airflow configuration
3HE17621AA	AC Power Cable, IEC-60320-C20 to IEC-60320-C19 AUTO-LOCK, 3.66m (12ft), supported on 7250 IXR-X3
3HE17622AA	AC Power Cable, LOCKING NEMA L6-20P to IEC-60320-C19 AUTO-LOCK, 3.66m (12ft), supported on 7250 IXR-X3
3HE17623AA	AC Power Cable, CEE 7/7 EURO SCHUKO to IEC-60320-C19 AUTO-LOCK, 2.5m (8.2ft), supported on 7250 IXR-X3
3HE17624AA	7250 IXR-X1 F2B chassis bundle with DC PSUs, includes: (1) 3HE15785AA - 7250 IXR-X1 32P QSFP28+4P QSFP-DD (3) 3HE15787AA - 7250 IXR-X 1RU Fan Tray (F2B) (2) 3HE15794AA - 7250 IXR-X 2000W LVDC (F2B)
3HE17625AA	7250 IXR-X1 B2F chassis bundle with DC PSUs, includes: (1) 3HE15785AA - 7250 IXR-X1 32P QSFP28+4P QSFP-DD (3) 3HE16507AA - 7250 IXR-X 1RU Fan Tray (B2F) (2) 3HE16509AA - 7250 IXR-X 2000W LVDC (B2F)
3HE17626AA	7250 IXR-Xs F2B chassis bundle with DC PSUs, includes: (1) 3HE15789AA - 7250 IXR-Xs 6P QSFP-DD+48P SFP56 (3) 3HE15787AA - 7250 IXR-X 1RU Fan Tray (F2B) (2) 3HE15794AA - 7250 IXR-X 2000W LVDC (F2B)
3HE17627AA	7250 IXR-Xs B2F chassis bundle with DC PSUs, includes: (1) 3HE15789AA - 7250 IXR-Xs 6P QSFP-DD+48P SFP56 (3) 3HE16507AA - 7250 IXR-X 1RU Fan Tray (B2F) (2) 3HE16509AA - 7250 IXR-X 2000W LVDC (B2F)
3HE17628AA	7250 IXR-X3 F2B chassis bundle with AC PSUs, includes: (1) 3HE15784AA - SYS - 7250 IXR-X3 36P 400G QSFP-DD (3) 3HE15787AA - 7250 IXR-X 1RU Fan Tray (F2B) (2) 3HE15793AA - 7250 IXR-X 2400W AC (F2B)
3HE17629AA	7250 IXR-X3 F2B chassis bundle with DC PSUs, includes: (1) 3HE15784AA - SYS - 7250 IXR-X3 36P 400G QSFP-DD (3) 3HE15787AA - 7250 IXR-X 1RU Fan Tray (F2B) (2) 3HE17441AA - 7250 IXR-X 2400W DC (F2B)
3HE17647AA	PS - 7220 IXR-D2L D3L AC, FtoB
3HE17648AA	PS - 7220 IXR-D2L D3L AC, BtoF
3HE17649AA	PS - 7220 IXR-D2L D3L -48V DC, FtoB
3HE17650AA	PS - 7220 IXR-D2L D3L -48V DC, BtoF

3HE17655AA	FAN - 7220 IXR-D2L 48SFP28 8QSFP28, FtoB
3HE17656AA	FAN - 7220 IXR-D2L 48SFP28 8QSFP28, BtoF
3HE17657AA	FAN - 7220 IXR-D3L 32QSFP28 2SFP+, FtoB
3HE17658AA	FAN - 7220 IXR-D3L 32QSFP28 2SFP+, BtoF
3HE17659AA	ACC - Rail-Kit for 7220 IXR-D2L D3L D4 and D5 Chassis
3HE17699AA	ESA - 7750 SR Extended Services Appliance 400G which provides extended compute functions. AC power. The hardware includes the use of up to 100Gbps of port capacity, but does not include power cables or QSFP hardware.
3HE17700AA	ESA - 7750 SR Extended Services Appliance 400G which provides extended compute functions (no Encryption). AC power. The hardware includes the use of up to 100Gbps of port capacity, but does not include power cables or QSFP hardware.
3HE17701AA	ESA - 7750 SR Extended Services Appliance 400G which provides extended compute functions. DC Power. The hardware includes the use of up to 100Gbps of port capacity, but does not include QSFP hardware.
3HE17702AA	ESA - 7750 SR Extended Services Appliance 400G which provides extended compute functions (no Encryption). DC Power. The hardware includes the use of up to 100Gbps of port capacity, but does not include QSFP hardware.
3HE17703AA	RTU - ESA additional 100G capacity. Right to Use (RTU) required for use of each additional 100Gbps port capacity on an ESA 400G appliance, in addition to the first 100Gbps capacity included with the hardware.
3HE17736AA	PS - 7220 IXR-D4 8QSFPDD 28QSFP28 AC (FtoB)
3HE17737AA	PS - 7220 IXR-D4 8QSFPDD 28QSFP28 AC (BtoF)
3HE17738AA	PS - 7220 IXR-D4 8QSFPDD 28QSFP28 -48V DC (FtoB)
3HE17739AA	PS - 7220 IXR-D4 8QSFPDD 28QSFP28 -48V DC (BtoF)
3HE17740AA	PS - 7220 IXR-D5 32QSFPDD AC (FtoB)
3HE17741AA	PS - 7220 IXR-D5 32QSFPDD AC (BtoF)
3HE17742AA	PS - 7220 IXR-D5 32QSFPDD -48V DC (FtoB)
3HE17743AA	PS - 7220 IXR-D5 32QSFPDD -48V DC (BtoF)
3HE17744AA	FAN - 7220 IXR-D4 D5 Fan Tray (FtoB)
3HE17745AA	FAN - 7220 IXR-D4 D5 Fan Tray (BtoF)
3HE17751AA	PS - 7220 IXR-H4 64QSFPDD -48VDC, FtoB
3HE17752AA	PS - 7220 IXR-H4 64QSFPDD AC, FtoB
3HE17753AA	FAN - 7220 IXR-H4 64QSFPDD, FtoB
3HE17754AA	ACC - Rail-Kit for 7220 IXR-H4
3HE17813AA	ACC - 7210 SAS Dxp16p/24p Wall Mount Kit
3HE17814AA	ACC - DINrail mounting kit for 19 rack-For moutning the SAS-DXP 16p/24p and a PSU in a 19" cabinet rack
3HE17817AA	ASL R23 MAG-c VNF Perpetual Application Software License (ASL) - One (1) license required to create a single MAG-c instance including DB for subscriber sessions. Additional capacity ASLs are required to enable the MAG-c to scale to support the quantity of attached UPF network elements, as well as specific feature licenses.
3HE17818AA	Application Software License is required to enable attached UPFs to be controlled by this MAG-c instance. One (1) ASL is required for every attached UPF network elements per MAG-c. Multiple ASLs may be applied to a single MAG-c instance to allow the required attached UPF scale.
3HE17819AA	Application Software License is required to enable automatic (on-demand) management of IPv4 and IPv6 address or prefix pools by MAG-c.
3HE17821AA	Includes a single 8.2 ft (2.5M) long PSE certified auto-locking Japanese AC power cord, 12A/125V with (JIS 8303 plug to IEC320-C15).
3HE17823AA	ACC - 7250 IXR-ec Fan Filter (5 pack)

3HE17827AA	Deepfield Base Platform. Right to Use License. Perpetual License. Required for all Deepfield deployments. Provides OS, Base code, Database, UI, API.
3HE17828AA	Deepfield Base Platform. Right to Use License. 1 Year Term License. Required for all Deepfield deployments. Provides OS, Base code, Database, UI, API.
3HE17829AA	Deepfield Cloud Intelligence Core. Perpetual License. Licensed on input monitored bandwidth PER Gbps. Greater than 250Gbps but less than or equal to 1000Gbps. Minimum 250Gbps. This tier must be paid in full before bandwidth greater than this tier can be added. Required for all Deepfield Deployments. Dependencies: Deepfield Base Platform License, Deepfield Cloud Genome Subscription. Provides traffic visibility into CDN, Sites, Category, system dimensions and custom dimensions.
3HE17830AA	Deepfield Cloud Intelligence Core. Perpetual License. Licensed on input monitored bandwidth PER Gbps. Greater than 1000Gbps but less than or equal to 5000Gbps. This tier must be paid in full before bandwidth greater than this tier can be added. Required for all Deepfield Deployments. Dependencies: Deepfield Base Platform License, Deepfield Cloud Genome Subscription. Provides traffic visibility into CDN, Sites, Category, system dimensions and custom dimensions.
3HE17831AA	Deepfield Cloud Intelligence Core. Perpetual License. Licensed on input monitored bandwidth PER Gbps. Greater than 5000Gbps but less than or equal to 25000Gbps. This tier must be paid in full before bandwidth greater than this tier can be added. Required for all Deepfield Deployments. Dependencies: Deepfield Base Platform License, Deepfield Cloud Genome Subscription. Provides traffic visibility into CDN, Sites, Category, system dimensions and custom dimensions.
3HE17832AA	Deepfield Cloud Intelligence Core. Perpetual License. Licensed on input monitored bandwidth PER Gbps. Greater than 25000Gbps. Required for all Deepfield Deployments. Dependencies: Deepfield Base Platform License, Deepfield Cloud Genome Subscription. Provides traffic visibility into CDN, Sites, Category, system dimensions and custom dimensions.
3HE17833AA	Deepfield Cloud Intelligence Core. 1 year term License. Licensed on input monitored bandwidth PER Gbps. Greater than 250Gbps but less than or equal to 1000Gbps. Minimum 250Gbps. This tier must be paid in full before bandwidth greater than this tier can be added. Required for all Deepfield Deployments. Dependencies: Deepfield Base Platform License, Deepfield Cloud Genome Subscription. Provides traffic visibility into CDN, Sites, Category, system dimensions and custom dimensions.
3HE17834AA	Deepfield Cloud Intelligence Core. 1 year term License. Licensed on input monitored bandwidth PER Gbps. Greater than 1000Gbps but less than or equal to 5000Gbps. This tier must be paid in full before bandwidth greater than this tier can be added. Required for all Deepfield Deployments. Dependencies: Deepfield Base Platform License, Deepfield Cloud Genome Subscription. Provides traffic visibility into CDN, Sites, Category, system dimensions and custom dimensions.
3HE17835AA	Deepfield Cloud Intelligence Core. 1 year term License. Licensed on input monitored bandwidth PER Gbps. Greater than 5000Gbps but less than or equal to 25000Gbps. This tier must be paid in full before bandwidth greater than this tier can be added. Required for all Deepfield Deployments. Dependencies: Deepfield Base Platform License, Deepfield Cloud Genome Subscription. Provides traffic visibility into CDN, Sites, Category, system dimensions and custom dimensions.

3HE17836AA	Deepfield Cloud Intelligence Core. 1 year term License. Licensed on input monitored bandwidth PER Gbps. Greater than 25000Gbps. Required for all Deepfield Deployments. Dependencies: Deepfield Base Platform License, Deepfield Cloud Genome Subscription. Provides traffic visibility into CDN, Sites, Category, system dimensions and custom dimensions.
3HE17837AA	Deepfield Cloud Genome. 1 year data feed subscription. Required for all Deepfield Deployments. Provides mapping for CDN, Sites, Category.
3HE17838AA	Deepfield Secure Genome. 1 year data feed subscription. Required for all Deepfield Defender Deployments. Provides mapping for DDoS attack vectors and auto-mitigation rules.
3HE17839AA	Deepfield Defender Core. Perpetual License. Licensed on input monitored bandwidth PER Gbps. Greater than 250Gbps but less than or equal to 1000Gbps. Minimum 250Gbps. This tier must be paid in full before bandwidth greater than this tier can be added. Dependencies: Deepfield Base Platform License, Deepfield Cloud Genome Subscription, Deepfield Secure Genome Subscription. Provides core functionality for DDoS detection and DDoS mitigation.
3HE17840AA	Deepfield Defender Core. Perpetual License. Licensed on input monitored bandwidth PER Gbps. Greater than 1000Gbps but less than or equal to 5000Gbps. This tier must be paid in full before bandwidth greater than this tier can be added. Dependencies: Deepfield Base Platform License, Deepfield Cloud Genome Subscription, Deepfield Secure Genome Subscription. Provides core functionality for DDoS detection and DDoS mitigation.
3HE17841AA	Deepfield Defender Core. Perpetual License. Licensed on input monitored bandwidth PER Gbps. Greater than 5000Gbps but less than or equal to 25000Gbps. This tier must be paid in full before bandwidth greater than this tier can be added. Dependencies: Deepfield Base Platform License, Deepfield Cloud Genome Subscription, Deepfield Secure Genome Subscription. Provides core functionality for DDoS detection and DDoS mitigation.
3HE17842AA	Deepfield Defender Core. Perpetual License. Licensed on input monitored bandwidth PER Gbps. Greater than 25000Gbps. Dependencies: Deepfield Base Platform License, Deepfield Cloud Genome Subscription, Deepfield Secure Genome Subscription. Provides core functionality for DDoS detection and DDoS mitigation.
3HE17843AA	Deepfield Defender Core. 1 year term License. Licensed on input monitored bandwidth PER Gbps. Greater than 250Gbps but less than or equal to 1000Gbps. Minimum 250Gbps. This tier must be paid in full before bandwidth greater than this tier can be added. Dependencies: Deepfield Base Platform License, Deepfield Cloud Genome Subscription, Deepfield Secure Genome Subscription. Provides core functionality for DDoS detection and DDoS mitigation.
3HE17844AA	Deepfield Defender Core. 1 year term License. Licensed on input monitored bandwidth PER Gbps. Greater than 1000Gbps but less than or equal to 5000Gbps. This tier must be paid in full before bandwidth greater than this tier can be added. Dependencies: Deepfield Base Platform License, Deepfield Cloud Genome Subscription, Deepfield Secure Genome Subscription. Provides core functionality for DDoS detection and DDoS mitigation.

3HE17845AA	Deepfield Defender Core. 1 year term License. Licensed on input monitored bandwidth PER Gbps. Greater than 5000Gbps but less than or equal to 25000Gbps. This tier must be paid in full before bandwidth greater than this tier can be added. Dependencies: Deepfield Base Platform License, Deepfield Cloud Genome Subscription, Deepfield Secure Genome Subscription. Provides core functionality for DDoS detection and DDoS mitigation.
3HE17846AA	Deepfield Defender Core. 1 year term License. Licensed on input monitored bandwidth PER Gbps. Greater than 25000Gbps. Dependencies: Deepfield Base Platform License, Deepfield Cloud Genome Subscription, Deepfield Secure Genome Subscription. Provides core functionality for DDoS detection and DDoS mitigation.
3HE17847AA	Deepfield Defender Advanced. Perpetual License. Licensed on input monitored bandwidth PER Gbps. Greater than 250Gbps but less than or equal to 1000Gbps. Minimum 250Gbps. This tier must be paid in full before bandwidth greater than this tier can be added. Dependencies: Deepfield Base Platform License, Deepfield Cloud Genome Subscription, Deepfield Secure Genome Subscription, Defender Core License. Provides all advanced DDoS features not included in Defender Core.
3HE17848AA	Deepfield Defender Advanced. Perpetual License. Licensed on input monitored bandwidth PER Gbps. Greater than 1000Gbps but less than or equal to 5000Gbps. This tier must be paid in full before bandwidth greater than this tier can be added. Dependencies: Deepfield Base Platform License, Deepfield Cloud Genome Subscription, Deepfield Secure Genome Subscription, Defender Core License. Provides all advanced DDoS features not included in Defender Core.
3HE17849AA	Deepfield Defender Advanced. Perpetual License. Licensed on input monitored bandwidth PER Gbps. Greater than 5000Gbps but less than or equal to 25000Gbps. This tier must be paid in full before bandwidth greater than this tier can be added. Dependencies: Deepfield Base Platform License, Deepfield Cloud Genome Subscription, Deepfield Secure Genome Subscription, Defender Core License. Provides all advanced DDoS features not included in Defender Core.
3HE17850AA	Deepfield Defender Advanced. Perpetual License. Licensed on input monitored bandwidth PER Gbps. Greater than 25000Gbps. Dependencies: Deepfield Base Platform License, Deepfield Cloud Genome Subscription, Deepfield Secure Genome Subscription, Defender Core License. Provides all advanced DDoS features not included in Defender Core.
3HE17851AA	Deepfield Defender Advanced. 1 year term License. Licensed on input monitored bandwidth PER Gbps. Greater than 250Gbps but less than or equal to 1000Gbps. Minimum 250Gbps. This tier must be paid in full before bandwidth greater than this tier can be added. Dependencies: Deepfield Base Platform License, Deepfield Cloud Genome Subscription, Deepfield Secure Genome Subscription, Defender Core License. Provides all advanced DDoS features not included in Defender Core.
3HE17852AA	Deepfield Defender Advanced. 1 year term License. Licensed on input monitored bandwidth PER Gbps. Greater than 1000Gbps but less than or equal to 5000Gbps. This tier must be paid in full before bandwidth greater than this tier can be added. Dependencies: Deepfield Base Platform License, Deepfield Cloud Genome Subscription, Deepfield Secure Genome Subscription, Defender Core License. Provides all advanced DDoS features not included in Defender Core.

3HE17853AA	Deepfield Defender Advanced. 1 year term License. Licensed on input monitored bandwidth PER Gbps. Greater than 5000Gbps but less than or equal to 25000Gbps. This tier must be paid in full before bandwidth greater than this tier can be added. Dependencies: Deepfield Base Platform License, Deepfield Cloud Genome Subscription, Deepfield Secure Genome Subscription, Defender Core License. Provides all advanced DDoS features not included in Defender Core.
3HE17854AA	Deepfield Defender Advanced. 1 year term License. Licensed on input monitored bandwidth PER Gbps. Greater than 25000Gbps. Dependencies: Deepfield Base Platform License, Deepfield Cloud Genome Subscription, Deepfield Secure Genome Subscription, Defender Core License. Provides all advanced DDoS features not included in Defender Core.
3HE17855AA	Deepfield Service Intelligence Core. Perpetual License. Licensed on input monitored bandwidth PER Gbps. Greater than 250Gbps but less than or equal to 1000Gbps. Minimum 250Gbps. This tier must be paid in full before bandwidth greater than this tier can be added. Dependencies: Deepfield Base Platform License, Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription. Provides OTT video counts and ABR.
3HE17856AA	Deepfield Service Intelligence Core. Perpetual License. Licensed on input monitored bandwidth PER Gbps. Greater than 1000Gbps but less than or equal to 5000Gbps. This tier must be paid in full before bandwidth greater than this tier can be added. Dependencies: Deepfield Base Platform License, Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription. Provides OTT video counts and ABR.
3HE17857AA	Deepfield Service Intelligence Core. Perpetual License. Licensed on input monitored bandwidth PER Gbps. Greater than 5000Gbps but less than or equal to 25000Gbps. This tier must be paid in full before bandwidth greater than this tier can be added. Dependencies: Deepfield Base Platform License, Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription. Provides OTT video counts and ABR.
3HE17858AA	Deepfield Service Intelligence Core. Perpetual License. Licensed on input monitored bandwidth PER Gbps. Greater than 25000Gbps. Dependencies: Deepfield Base Platform License, Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription. Provides OTT video counts and ABR.
3HE17859AA	Deepfield Service Intelligence Core. 1 year term License. Licensed on input monitored bandwidth PER Gbps. Greater than 250Gbps but less than or equal to 1000Gbps. Minimum 250Gbps. This tier must be paid in full before bandwidth greater than this tier can be added. Dependencies: Deepfield Base Platform License, Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription. Provides OTT video counts and ABR.
3HE17860AA	Deepfield Service Intelligence Core. 1 year term License. Licensed on input monitored bandwidth PER Gbps. Greater than 1000Gbps but less than or equal to 5000Gbps. This tier must be paid in full before bandwidth greater than this tier can be added. Dependencies: Deepfield Base Platform License, Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription. Provides OTT video counts and ABR.

3HE17861AA	Deepfield Service Intelligence Core. 1 year term License. Licensed on input monitored bandwidth PER Gbps. Greater than 5000Gbps but less than or equal to 25000Gbps. This tier must be paid in full before bandwidth greater than this tier can be added. Dependencies: Deepfield Base Platform License, Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription. Provides OTT video counts and ABR.
3HE17862AA	Deepfield Service Intelligence Core. 1 year term License. Licensed on input monitored bandwidth PER Gbps. Greater than 25000Gbps. Dependencies: Deepfield Base Platform License, Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription. Provides OTT video counts and ABR.
3HE17863AA	Deepfield Subscriber Intelligence Core. Perpetual License. Licensed on monitored subscribers. Less than or equal to 1M subscribers. This tier must be paid in full before subscribers greater than this tier can be added. Dependencies: Deepfield Base Platform License, Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription. Provides core software for aggregated subscriber analytics. No individual subscriber visibility available.
3HE17864AA	Deepfield Subscriber Intelligence Core. Perpetual License. Licensed on monitored subscribers. Greater than 1M subscribers but less than or equal to 5M subscribers. This tier must be paid in full before subscribers greater than this tier can be added. Dependencies: Deepfield Base Platform License, Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription. Provides core software for aggregated subscriber analytics. No individual subscriber visibility available.
3HE17865AA	Deepfield Subscriber Intelligence Core. Perpetual License. Licensed on monitored subscribers. Greater than 5M subscribers but less than or equal to 10M subscribers. This tier must be paid in full before subscribers greater than this tier can be added. Dependencies: Deepfield Base Platform License, Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription. Provides core software for aggregated subscriber analytics. No individual subscriber visibility available.
3HE17866AA	Deepfield Subscriber Intelligence Core. Perpetual License. Licensed on monitored subscribers. Greater than 10M subscribers. Dependencies: Deepfield Base Platform License, Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription. Provides core software for aggregated subscriber analytics. No individual subscriber visibility available.
3HE17867AA	Deepfield Subscriber Intelligence Core. 1 year term License. Licensed on monitored subscribers. Less than or equal to 1M subscribers. This tier must be paid in full before subscribers greater than this tier can be added. Dependencies: Deepfield Base Platform License, Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription. Provides core software for aggregated subscriber analytics. No individual subscriber visibility available.
3HE17868AA	Deepfield Subscriber Intelligence Core. 1 year term License. Licensed on monitored subscribers. Greater than 1M subscribers but less than or equal to 5M subscribers. This tier must be paid in full before subscribers greater than this tier can be added. Dependencies: Deepfield Base Platform License, Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription. Provides core software for aggregated subscriber analytics. No individual subscriber visibility available.

3HE17869AA	Deepfield Subscriber Intelligence Core. 1 year term License. Licensed on monitored subscribers. Greater than 5M subscribers but less than or equal to 10M subscribers. This tier must be paid in full before subscribers greater than this tier can be added. Dependencies: Deepfield Base Platform License, Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription. Provides core software for aggregated subscriber analytics. No individual subscriber visibility available.
3HE17870AA	Deepfield Subscriber Intelligence Core. 1 year term License. Licensed on monitored subscribers. Greater than 10M subscribers. Dependencies: Deepfield Base Platform License, Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription. Provides core software for aggregated subscriber analytics. No individual subscriber visibility available.
3HE17871AA	Deepfield Subscriber Intelligence Granular Insights. Perpetual License. Licensed on monitored subscribers. Less than or equal to 1M subscribers. This tier must be paid in full before subscribers greater than this tier can be added. Subscriber Intelligence Core must be licensed first before adding this license. Dependencies: Deepfield Base Platform License, Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription, Deepfield Subscriber Intelligence Core License. Provides per subscriber visibility on top of Subscriber Intelligence Core.
3HE17872AA	Deepfield Subscriber Intelligence Granular Insights. Perpetual License. Licensed on monitored subscribers. Greater than 1M subscribers but less than or equal to 5M subscribers. This tier must be paid in full before subscribers greater than this tier can be added. Subscriber Intelligence Core must be licensed first before adding this license. Dependencies: Deepfield Base Platform License, Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription, Deepfield Subscriber Intelligence Core License. Provides per subscriber visibility on top of Subscriber Intelligence Core.
3HE17873AA	Deepfield Subscriber Intelligence Granular Insights. Perpetual License. Licensed on monitored subscribers. Greater than 5M subscribers but less than or equal to 10M subscribers. This tier must be paid in full before subscribers greater than this tier can be added. Provides per subscriber visibility on top of Subscriber Intelligence Core. Subscriber Intelligence Core must be licensed first before adding this license. Dependencies: Deepfield Base Platform License, Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription, Deepfield Subscriber Intelligence Core License.
3HE17874AA	Deepfield Subscriber Intelligence Granular Insights. Perpetual License. Licensed on monitored subscribers. Greater than 10M subscribers. Subscriber Intelligence Core must be licensed first before adding this license. Dependencies: Deepfield Base Platform License, Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription, Deepfield Subscriber Intelligence Core License. Provides per subscriber visibility on top of Subscriber Intelligence Core.
3HE17875AA	Deepfield Subscriber Intelligence Granular Insights. 1 year term License. Licensed on monitored subscribers. Less than or equal to 1M subscribers. This tier must be paid in full before subscribers greater than this tier can be added. Subscriber Intelligence Core must be licensed first before adding this license. Dependencies: Deepfield Base Platform License, Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription, Deepfield Subscriber Intelligence Core License. Provides per subscriber visibility on top of Subscriber Intelligence Core.

3HE17876AA	Deepfield Subscriber Intelligence Granular Insights. 1 year term License. Licensed on monitored subscribers. Greater than 1M subscribers but less than or equal to 5M subscribers. This tier must be paid in full before subscribers greater than this tier can be added. Subscriber Intelligence Core must be licensed first before adding this license. Dependencies: Deepfield Base Platform License, Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription, Deepfield Subscriber Intelligence Core License. Provides per subscriber visibility on top of Subscriber Intelligence Core.
3HE17877AA	Deepfield Subscriber Intelligence Granular Insights. 1 year term License. Licensed on monitored subscribers. Greater than 5M subscribers but less than or equal to 10M subscribers. This tier must be paid in full before subscribers greater than this tier can be added. Subscriber Intelligence Core must be licensed first before adding this license. Dependencies: Deepfield Base Platform License, Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription, Deepfield Subscriber Intelligence Core License. Provides per subscriber visibility on top of Subscriber Intelligence Core.
3HE17878AA	Deepfield Subscriber Intelligence Granular Insights. 1 year term License. Licensed on monitored subscribers. Greater than 10M subscribers. Subscriber Intelligence Core must be licensed first before adding this license. Dependencies: Deepfield Base Platform License, Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription, Deepfield Subscriber Intelligence Core License. Provides per subscriber visibility on top of Subscriber Intelligence Core.
3HE17879AA	Deepfield Subscriber Intelligence Service Usage Module. Perpetual License. Licensed on monitored subscribers. Less than or equal to 1M subscribers. This tier must be paid in full before subscribers greater than this tier can be added. Dependencies: Deepfield Base Platform License, Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription, Deepfield Subscriber Intelligence Core License. Provides additional analytics and reports for aggregated subscriber profiles.
3HE17880AA	Deepfield Subscriber Intelligence Service Usage Module. Perpetual License. Licensed on monitored subscribers. Greater than 1M subscribers but less than or equal to 5M subscribers. This tier must be paid in full before subscribers greater than this tier can be added. Dependencies: Deepfield Base Platform License, Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription, Deepfield Subscriber Intelligence Core License. Provides additional analytics and reports for aggregated subscriber profiles.
3HE17881AA	Deepfield Subscriber Intelligence Service Usage Module. Perpetual License. Licensed on monitored subscribers. Greater than 5M subscribers but less than or equal to 10M subscribers. This tier must be paid in full before subscribers greater than this tier can be added. Dependencies: Deepfield Base Platform License, Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription, Deepfield Subscriber Intelligence Core License. Provides additional analytics and reports for aggregated subscriber profiles.
3HE17882AA	Deepfield Subscriber Intelligence Service Usage Module. Perpetual License. Licensed on monitored subscribers. Greater than 10M subscribers. Dependencies: Deepfield Base Platform License, Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription, Deepfield Subscriber Intelligence Core License. Provides additional analytics and reports for aggregated subscriber profiles.

3HE17883AA	Deepfield Subscriber Intelligence Service Usage Module. 1 year term License. Licensed on monitored subscribers. Less than or equal to 1M subscribers. This tier must be paid in full before subscribers greater than this tier can be added. Dependencies: Deepfield Base Platform License, Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription, Deepfield Subscriber Intelligence Core License. Provides additional analytics and reports for aggregated subscriber profiles.
3HE17884AA	Deepfield Subscriber Intelligence Service Usage Module. 1 year term License. Licensed on monitored subscribers. Greater than 1M subscribers but less than or equal to 5M subscribers. This tier must be paid in full before subscribers greater than this tier can be added. Dependencies: Deepfield Base Platform License, Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription, Deepfield Subscriber Intelligence Core License. Provides additional analytics and reports for aggregated subscriber profiles.
3HE17885AA	Deepfield Subscriber Intelligence Service Usage Module. 1 year term License. Licensed on monitored subscribers. Greater than 5M subscribers but less than or equal to 10M subscribers. This tier must be paid in full before subscribers greater than this tier can be added. Dependencies: Deepfield Base Platform License, Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription, Deepfield Subscriber Intelligence Core License. Provides additional analytics and reports for aggregated subscriber profiles.
3HE17886AA	Deepfield Subscriber Intelligence Service Usage Module. 1 year term License. Licensed on monitored subscribers. Greater than 10M subscribers. Dependencies: Deepfield Base Platform License, Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription, Deepfield Subscriber Intelligence Core License. Provides additional analytics and reports for aggregated subscriber profiles.
3HE17887AA	Deepfield Operational Intelligence Core. Perpetual License. Licensed on input monitored bandwidth PER Gbps. Greater than 250Gbps but less than or equal to 1000Gbps. Minimum 250Gbps. This tier must be paid in full before bandwidth greater than this tier can be added. Dependencies: Deepfield Base Platform License, Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription. Provides traffic baselining and alerting.
3HE17888AA	Deepfield Operational Intelligence Core. Perpetual License. Licensed on input monitored bandwidth PER Gbps. Greater than 1000Gbps but less than or equal to 5000Gbps. This tier must be paid in full before bandwidth greater than this tier can be added. Dependencies: Deepfield Base Platform License, Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription. Provides traffic baselining and alerting.
3HE17889AA	Deepfield Operational Intelligence Core. Perpetual License. Licensed on input monitored bandwidth PER Gbps. Greater than 5000Gbps but less than or equal to 25000Gbps. This tier must be paid in full before bandwidth greater than this tier can be added. Dependencies: Deepfield Base Platform License, Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription. Provides traffic baselining and alerting.
3HE17890AA	Deepfield Operational Intelligence Core. Perpetual License. Licensed on input monitored bandwidth PER Gbps. Greater than 25000Gbps. Dependencies: Deepfield Base Platform License, Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription. Provides traffic baselining and alerting.

3HE17891AA	Deepfield Operational Intelligence Core. 1 year term License. Licensed on input monitored bandwidth PER Gbps. Greater than 250Gbps but less than or equal to 1000Gbps. Minimum 250Gbps. This tier must be paid in full before bandwidth greater than this tier can be added. Dependencies: Deepfield Base Platform License, Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription. Provides traffic baselining and alerting.
3HE17892AA	Deepfield Operational Intelligence Core. 1 year term License. Licensed on input monitored bandwidth PER Gbps. Greater than 1000Gbps but less than or equal to 5000Gbps. This tier must be paid in full before bandwidth greater than this tier can be added. Dependencies: Deepfield Base Platform License, Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription. Provides <u>traffic baselining and alerting.</u>
3HE17893AA	Deepfield Operational Intelligence Core. 1 year term License. Licensed on input monitored bandwidth PER Gbps. Greater than 5000Gbps but less than or equal to 25000Gbps. This tier must be paid in full before bandwidth greater than this tier can be added. Dependencies: Deepfield Base Platform License, Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription. Provides <u>traffic baselining and alerting.</u>
3HE17894AA	Deepfield Operational Intelligence Core. 1 year term License. Licensed on input monitored bandwidth PER Gbps. Greater than 25000Gbps. Dependencies: Deepfield Base Platform License, Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription. Provides traffic baselining and alerting.
3HE17935AA	RTU - 7250 IXR SR Linux - Enhanced Scale – one per system requiring high scale.
3HE17944AA	RTU - 7210 SAS-Dxp MACsec license. This is a per chassis license. It is a one-time license to use the MACsec capabilities on the node. It is required to use MACsec capability on 2 x 10GE and 2 x 1GE ports on 7210 SAS-Dxp 24p platforms.
3HE17945AA	RTU - 7210 SAS-Dxp PoE license. This is a per chassis license. It is a one-time license to use the PoE/PoE+/PoE++/HPoE capabilities on the node. It is required to use PoE capabilities on 7210 SAS-Dxp 16p and 7210 SAS-Dxp 24p platforms.
3HE17946AA	RTU - 7210 SAS-Dxp Timing license. This is a per chassis license. It is a one-time license to use the PTP and syncE capabilities on the node. It is required to use the syncE and PTP capabilities on the 7210 SAS-Dxp 2SFP+ 4F 6T ETR (a.k.a. 7210 SAS-Dxp 12p ETR), 7210 SAS-Dxp 16p and 7210 SAS-Dxp 24p platforms. It allows for use of the supported PTP profiles on these platforms.
3HE17948AA	7250 IXR-X 1300W LVDC power supply with back-to-front airflow configuration
3HE18022AA	8-port 100G QSFP112-DD Optics Module, 500m, MPO16 Connector, SMF, RoHS 6/6 compliant, Digital Diagnostic Monitor (DDM), 0/70C
3HE18023AA	8-port 100G QSFP112-DD Optics Module, 2km, MPO16 Connector, SMF, RoHS 6/6 compliant, Digital Diagnostic Monitor (DDM), 0/70C
3HE18024AA	2-port 400G QSFP112-DD Optics Module, 2km, dual CS Connector, SMF, RoHS 6/6 compliant, Digital Diagnostic Monitor (DDM), 0/70C
3HE18025AA	8-port 100G QSFP112-DD Optics Module, 10km, MPO16 Connector, SMF, RoHS 6/6 compliant, Digital Diagnostic Monitor (DDM), 0/70C
3HE18056AA	SROS NAT license per 10G increment on ESA-VM or ISA.

3HE18057AA	SROS NAT required to enable stateless geo redundancy for NAT function. This license is per pair of redundant SR nodes.
3HE18058AA	SROS NAT required to enable state-full geo redundancy for NAT function. One license is required for each pair of synchronized ESA-VMs or ISAs.
3HE18059AA	ASL VSR-NAT State-full Geo Redundancy - Application Software License required to enable state-full geo redundancy for the NAT function. One (1) license is required to enable stateful GEO LSN redundancy per a pair of VSRs
3HE18110AA	1-port 10GBASE-BX80-U (Up-Stream) Bi-Directional (BiDi) Small Form-Factor Pluggable (SFP+) Optics Module, Single Mode Fiber (SMF), 80km, TX: 1490nm, RX: 1570nm; LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant, Extended Temperature -40/85C
3HE18110AB	1-port 10GBASE-BX80-D (Down-Stream) Bi-Directional (BiDi) Small Form-Factor Pluggable (SFP+) Optics Module, Single Mode Fiber (SMF), 80km, TX:1570 nm, RX: 1490 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant, Extended Temperature -40/85C
3HE18114AA	16F SMF MPO-16 to MPO-16 jumper, 3M
3HE18115AA	16F SMF MPO-16 to MPO-16 jumper, 10M
3HE18116AA	1x MPO-16 to 8 duplex LC breakout, SMF
3HE18118AA	ACC - 7210 SAS-Sx 10/100 system Fan Tray Filter (5) for use in 3HE11597AA SYS - 7210 SAS-Sx 64SFP+ 4QSFP28
3HE18345AA	7250 IXR-10e LVDC with SFM1 8+0 redundant complete chassis bundle with all common hardware including: (1) 3HE16997AA - CHAS - 7250 IXR-10e CHASSIS (8) 3HE17005AA - SFM - 7250 IXR-10e SFM1 (2) 3HE17011AA - CPM - 7250 IXR-6e/10e CPM4 SSD (4) 3HE17003AA - PSU - 7250 IXR-6e/10e LVDC (4) 3HE16993AA - FAN - 7250 IXR-10e FAN TRAY Note: Impedance panels (IMM, PSU) need to be ordered separately for every empty slot
3HE18346AA	7250 IXR-10e LVDC with SFM2 7+1 redundant complete chassis bundle with all common hardware including: (1) 3HE16997AA - CHAS - 7250 IXR-10e CHASSIS (8) 3HE16991AA - SFM - 7250 IXR-10e SFM2 (2) 3HE17011AA - CPM - 7250 IXR-6e/10e CPM4 SSD (4) 3HE17003AA - PSU - 7250 IXR-6e/10e LVDC (4) 3HE16993AA - FAN - 7250 IXR-10e FAN TRAY Note: Impedance panels (IMM, PSU) need to be ordered separately for every empty slot
3HE18347AA	7250 IXR-10e AC with SFM1 8+0 redundant complete chassis bundle with all common hardware including: (1) 3HE16997AA - CHAS - 7250 IXR-10e CHASSIS (8) 3HE17005AA - SFM - 7250 IXR-10e SFM1 (2) 3HE17011AA - CPM - 7250 IXR-6e/10e CPM4 SSD (4) 3HE17002AA - PSU - 7250 IXR-6e/10e AC (4) 3HE16993AA - FAN - 7250 IXR-10e FAN TRAY Note: Impedance panels (IMM, PSU) need to be ordered separately for every empty slot

3HE18348AA	7250 IXR-10e AC with SFM2 7+1 redundant complete chassis bundle with all common hardware including: (1) 3HE16997AA - CHAS - 7250 IXR-10e CHASSIS (8) 3HE16991AA - SFM - 7250 IXR-10e SFM2 (2) 3HE17011AA - CPM - 7250 IXR-6e/10e CPM4 SSD (4) 3HE17002AA - PSU - 7250 IXR-6e/10e AC (4) 3HE16993AA - FAN - 7250 IXR-10e FAN TRAY Note: Impedance panels (IMM, PSU) need to be ordered separately for every empty slot.
3HE18349AA	7250 IXR-6e LVDC complete chassis bundle with all common hardware including: (1) 3HE16998AA - CHAS - 7250 IXR-6e CHASSIS (8) 3HE16992AA - SFM - 7250 IXR-6e SFM2 (2) 3HE17011AA - CPM - 7250 IXR-6e/10e CPM4 SSD (3) 3HE17003AA - PSU - 7250 IXR-6e/10e LVDC (4) 3HE16994AA - FAN - 7250 IXR-6e FAN TRAY Note: Impedance panels (IMM, PSU) need to be ordered separately for every empty slot.
3HE18350AA	7250 IXR-6e AC complete chassis bundle with all common hardware including: (1) 3HE16998AA - CHAS - 7250 IXR-6e CHASSIS (8) 3HE16992AA - SFM - 7250 IXR-6e SFM2 (2) 3HE17011AA - CPM - 7250 IXR-6e/10e CPM4 SSD (3) 3HE17002AA - PSU - 7250 IXR-6e/10e AC (4) 3HE16994AA - FAN - 7250 IXR-6e FAN TRAY Note: Impedance panels (IMM, PSU) need to be ordered separately for every empty slot.
3HE18360AA	1-port 400G ZR+ 0dBm higher Tx power QSFP-DD pluggable, SMF, 400G Coherent tunable DWDM, Open ZR+, OpenROADM, 1528.77 to 1563.86nm, DWDM Grid (ITU 196.1 to 191.7 THz), 0/70C
3HE18361AA	7750 SR 16-ports 10/25GGBASE MACsec + 2-ports 10/40/100GBase MDA-e-XP. Accepts sixteen (16) 10/25GBase Optic Module SFP+/SFP28 + two (2) 10/40/100GBase QSFP+/QSFP28 pluggable optics.
3HE18362AA	7750 SR-s 16-ports SFP-DD (10/25/100G) + 4-ports QSFP28 (10/40/100G) MDA-s. Accepts (16) 10/25/100GBase Optic Module SFP+/SFP28/SFP-DD + (4) 10/40/100GBase Optic Module QSFP+/QSFP28.
3HE18363AA	7750 SR-s 8-ports SFP-DD (10/25/100G) MACsec + 2-ports QSFP28 (10/40/100G) MDA-s. Accepts (8) 10/25/100GBase Optic Module SFP+/SFP28/SFP-DD + (2) 10/40/100GBase QSFP+/QSFP28.
3HE18364AA	2-port 400G QSFP112-DD Optics Module, 10km, dual CS Connector, SMF, RoHS 6/6 compliant, Digital Diagnostic Monitor (DDM), 0/70C
3HE18577AA	Deepfield Defender MSSP Portal. Perpetual License. Includes portal access for 100 Organizations within the Deepfield platform. Needs to be purchased in blocks of 100 Organizations. Dependencies: Deepfield Defender Core. Provides MSSP Portal for Defender customers to log in and see DDoS related activity for their Organizations.
3HE18578AA	Deepfield Defender MSSP Portal. 1 year term License. Includes portal access for 100 Organizations within the Deepfield platform. Needs to be purchased in blocks of 100 Organizations. Dependencies: Deepfield Defender Core. Provides MSSP Portal for Defender customers to log in and see DDoS related activity for their Organizations.

3HE18579AA	Deepfield Defender Diversion Connector, Arbor/Netscout. Perpetual License. Per Arbor Sightline connection. Dependencies: Deepfield Defender Core. Provides diversion connector to start mitigations using Arbor/Netscout TMS.
3HE18580AA	Deepfield Defender Diversion Connector, Arbor/Netscout. 1 year term License. Per Arbor Sightline connection. Dependencies: Deepfield Defender Core. Provides diversion connector to start mitigations using Arbor/Netscout TMS.
3HE18581AA	Deepfield Defender Diversion Connector, Radware. Perpetual License. Per device license. Dependencies: Deepfield Defender Core. Provides diversion connector to start mitigations using Radware.
3HE18582AA	Deepfield Defender Diversion Connector, Radware. 1 year term License. Per device license. Dependencies: Deepfield Defender Core. Provides diversion connector to start mitigations using Radware.
3HE18583AA	Deepfield Defender Diversion Connector, A10. Perpetual License. Per device license. Dependencies: Deepfield Defender Core. Provides diversion connector to start mitigations using A10 TPS.
3HE18584AA	Deepfield Defender Diversion Connector, A10. 1 year term License. Per device license. Dependencies: Deepfield Defender Core. Provides diversion connector to start mitigations using A10 TPS.
3HE18585AA	Deepfield Subscriber Intelligence NAT Module. Perpetual License. Licensed on monitored subscribers. Less than or equal to 1M subscribers. This tier must be paid in full before subscribers greater than this tier can be added. Dependencies: Deepfield Base Platform License, Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription, Deepfield Subscriber Intelligence Core License. Provides IP mapping for subscribers behind NAT or MAP-T environments.
3HE18586AA	Deepfield Subscriber Intelligence NAT Module. Perpetual License. Licensed on monitored subscribers. Greater than 1M subscribers but less than or equal to 5M subscribers. This tier must be paid in full before subscribers greater than this tier can be added. Dependencies: Deepfield Base Platform License, Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription, Deepfield Subscriber Intelligence Core License. Provides IP mapping for subscribers behind NAT or MAP-T environments.
3HE18587AA	Deepfield Subscriber Intelligence NAT Module. Perpetual License. Licensed on monitored subscribers. Greater than 5M subscribers but less than or equal to 10M subscribers. This tier must be paid in full before subscribers greater than this tier can be added. Dependencies: Deepfield Base Platform License, Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription, Deepfield Subscriber Intelligence Core License. Provides IP mapping for subscribers behind NAT or MAP-T environments.
3HE18588AA	Deepfield Subscriber Intelligence NAT Module. Perpetual License. Licensed on monitored subscribers. Greater than 10M subscribers. Dependencies: Deepfield Base Platform License, Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription, Deepfield Subscriber Intelligence Core License. Provides IP mapping for subscribers behind NAT or MAP-T environments.

3HE18589AA	Deepfield Subscriber Intelligence NAT Module. 1 year term License. Licensed on monitored subscribers. Less than or equal to 1M subscribers. This tier must be paid in full before subscribers greater than this tier can be added. Dependencies: Deepfield Base Platform License, Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription, Deepfield Subscriber Intelligence Core License. Provides IP mapping for subscribers behind NAT or MAP-T environments.
3HE18590AA	Deepfield Subscriber Intelligence NAT Module. 1 year term License. Licensed on monitored subscribers. Greater than 1M subscribers but less than or equal to 5M subscribers. This tier must be paid in full before subscribers greater than this tier can be added. Dependencies: Deepfield Base Platform License, Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription, Deepfield Subscriber Intelligence Core License. Provides IP mapping for subscribers behind NAT or MAP-T environments.
3HE18591AA	Deepfield Subscriber Intelligence NAT Module. 1 year term License. Licensed on monitored subscribers. Greater than 5M subscribers but less than or equal to 10M subscribers. This tier must be paid in full before subscribers greater than this tier can be added. Dependencies: Deepfield Base Platform License, Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription, Deepfield Subscriber Intelligence Core License. Provides IP mapping for subscribers behind NAT or MAP-T environments.
3HE18592AA	Deepfield Subscriber Intelligence NAT Module. 1 year term License. Licensed on monitored subscribers. Greater than 10M subscribers. Dependencies: Deepfield Base Platform License, Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription, Deepfield Subscriber Intelligence Core License. Provides IP mapping for subscribers behind NAT or MAP-T environments.
3HE18593AA	Deepfield Maintenance and Support Service, Gold
3HE18594AA	SR/ESS/XRS/SAR (excl SAR-18) 2 GB Compact Flash - Spare (Blank)
3HE18595AA	SR/ESS/XRS/SAR (excl SAR-18) 4 GB Compact Flash - Spare (Blank)
3HE18596AA	SR/ESS/XRS/SAR (excl SAR-18) 8 GB Compact Flash - Spare (Blank)
3HE18597AA	7210 SAS 2 GB Compact Flash - Spare (Blank)
3HE18598AA	7210 SAS 4 GB Compact Flash - Spare (Blank)
3HE18599AA	7210 SAS 8 GB Compact Flash - Spare (Blank)
3HE18600AA	7705 SAR-18 2 GB Compact Flash - Spare (Blank)
3HE18601AA	7705 SAR-18 4 GB Compact Flash - Spare (Blank)
3HE18602AA	7705 SAR-18 8 GB Compact Flash - Spare (Blank)
3HE18711AA	HPE Intel 1-port 10GBASE-SR Small Form-Factor Pluggable+ (SFP+) Optics Module, 850 nm, 26 to 400 meters, LC Connector, RoHS 6/6 compliant
3HE18712AA	HPE Intel 1-port 10GBASE-LR Small Form-Factor Pluggable+ (SFP+) Optics Module, Single Mode Fiber (SMF), 10km, 1310 nm, LC Connector, RoHS 6/6 compliant
3HE18715AA	HPE Intel 1-port 1000BASE-SX Small Form-Factor Pluggable (SFP) Optics Module, Multimode Fiber (MMF), 500 meters, 850 nm, LC Connector, RoHS 6/6 compliant
3HE18716AA	HPE MLX 1-port 100GBase SR4 or 4-port 25G SR QSFP28 Optics Module, 100m, MMF, MPO Connector, RoHS 6/6 compliant
3HE18718AA	HPE MLX QSFP28 to SFP28 Adapter
3HE18719AA	HPE MLX 1-port 100GBase LR4 QSFP28 Optics Module, 10km, LC Connector, RoHS 6/6 compliant. Mellanox MMA1L10-CR
3HE18720AA	HPE MLX 1-port 40GBase SR4 QSFP+ Optics Module, 100m, MMF, MPO Connector, RoHS 6/6 compliant

3HE18721AA	HPE MLX 1-port 25GBASE-SR Small Form-Factor Pluggable+ (SFP28) Optics Module, Multi-Mode Fiber (MMF), 100m, 850nm, LC Connector, RoHS 6/6 compliant
3HE18729AA	7250 IXR-R6d front-to-back plenum kit. 2RU height.
3HE18730AA	7250 IXR-R6d/R6dl front-to-back baffle kit, vertical mount.
3HE18812AA	SROS TCP Optimization License per 10Gbps. Right to Use required for TCP Optimization. One of these RTUs is required for every increment of 10Gbps of traffic. Multiple instances may be applied to a single system to allow the desired scale.
3HE18863AA	7250 IXR SR Linux - OS Kit 20.x - shipped with two (2) 8GB SD cards with SR Linux image preinstalled. Each system also requires a R20.x RTU license, which must be purchased separately.
3HE18863BA	7250 IXR SR Linux - OS Kit 21.x - shipped with two (2) 8GB SD cards with SR Linux image preinstalled. Each system also requires a R21.x RTU license, which must be purchased separately.
3HE18863CA	7250 IXR SR Linux - OS Kit 22.x - shipped with two (2) 8GB SD cards with SR Linux image preinstalled. Each system also requires a R22.x RTU license, which must be purchased separately.
3HE18863DA	7250 IXR SR Linux - OS Kit 23.x - shipped with two (2) 8GB SD cards with SR Linux image preinstalled. Each system also requires a R23.x RTU license, which must be purchased separately.
3HE18864AA	RTU - 7250 IXR SR Linux - Base 20.x – one per system requiring base functionality.
3HE18864BA	RTU - 7250 IXR SR Linux - Base 21.x – one per system requiring base functionality.
3HE18864CA	RTU - 7250 IXR SR Linux - Base 22.x – one per system requiring base functionality.
3HE18864DA	RTU - 7250 IXR SR Linux - Base 23.x – one per system requiring base functionality.
3HE18865AA	RTU - 7250 IXR SR Linux - Services 20.x – one per system requiring services functionality (includes base functionality).
3HE18865BA	RTU - 7250 IXR SR Linux - Services 21.x – one per system requiring services functionality (includes base functionality).
3HE18865CA	RTU - 7250 IXR SR Linux - Services 22.x – one per system requiring services functionality (includes base functionality).
3HE18865DA	RTU - 7250 IXR SR Linux - Services 23.x – one per system requiring services functionality (includes base functionality).
3HE18866AA	RTU - 7250 IXR SR Linux - Advanced 20.x – one per system requiring advanced functionality (includes services and base functionality).
3HE18866BA	RTU - 7250 IXR SR Linux - Advanced 21.x – one per system requiring advanced functionality (includes services and base functionality).
3HE18866CA	RTU - 7250 IXR SR Linux - Advanced 22.x – one per system requiring advanced functionality (includes services and base functionality).
3HE18866DA	RTU - 7250 IXR SR Linux - Advanced 23.x – one per system requiring advanced functionality (includes services and base functionality).
3HE18936AA	RTU - Right to Use - 1GE MACSEC (1 License per MACSec enabled port)
3HE18937AA	RTU - Right to Use - 10GE MACSEC (1 License per MACSec enabled port)
3HE18938AA	RTU - Right to Use - 25GE MACSEC (1 License per MACSec enabled port)
3HE18939AA	RTU - Right to Use - 50GE MACSEC (1 License per MACSec enabled port)
3HE18940AA	RTU - Right to Use - 100GE MACSEC (1 License per MACSec enabled port)
3HE18941AA	RTU - Right to Use - 200GE MACSEC (1 License per MACSec enabled port)
3HE18942AA	RTU - Right to Use - 400GE MACSEC (1 License per MACSec enabled port)
3HE18944AA	RTU - Right to Use - 50GE MACSEC (1 License per MACSec enabled port)
3HE18945AA	RTU - Right to Use - 200GE MACSEC (1 License per MACSec enabled port)

3HE18946AA	RTU - Right to Use - 400GE MACSEC (1 License per MACSec enabled port)
3HE18947AA	RTU - Right to Use - 800GE MACSEC (1 License per MACSec enabled port)
3HE19023AA	AC Power Cable Blunt cut to UL 1681 5-15P, 1.5meter, 10A/125V, North America
3HE19024AA	AC Power Cable Blunt cut to GB 1002 Single - phase 2 pole with grounding plug, 1.5meter, 10A/250V, China
3HE19025AA	AC Power Cable Blunt cut to IEC 60884-1 CEE 7, 1.5meter, 16A/250V, EU/Korea
3HE19135AA	Omni directional antenna. 17.7"Height x 3"Diameter (75 cm x 3 cm). 3dBi/5dBi gain for 617-1710 MHz/1710-4200 MHz respectively. 2 x N-Female connectors for MIMO support. Suitable for outdoor deployments.
3HE19300AA	Flush mounting brackets for 7250 IXR-Xs, X1 and X3. Allows the IXR-X platform to be mounted deeper into the 4-post rack and aligns the front faceplate to the front posts. Note that to use these, a clearance of 17.7" (45 cm) is required between the mounting posts. Pack of 10, 2 per system required.
3HE19301AA	CH-BN - 7220 IXR-D2L AC FtB Int Chassis contains: (1) 3HE17645AA - SYS-7220 IXR-D2L 48SFP28 8QSFP28 2SFP+ (2) 3HE17647AA - PS - 7220 IXR-D2L, D3L AC, FtoB (6) 3HE17655AA - FAN - 7220 IXR-D2L, FtoB
3HE19302AA	CH-BN - 7220 IXR-D2L AC BtF Int Chassis contains: (1) 3HE17645AA - SYS-7220 IXR-D2L 48SFP28 8QSFP28 2SFP+ (2) 3HE17648AA - PS - 7220 IXR-D2L, D3L AC, BtoF (6) 3HE17656AA - FAN - 7220 IXR-D2L, BtoF
3HE19303AA	CH-BN - 7220 IXR-D2L DC FtB Int Chassis contains: (1) 3HE17645AA - SYS-7220 IXR-D2L 48SFP28 8QSFP28 2SFP+ (2) 3HE17649AA - PS - 7220 IXR-D2L, D3L -48V DC, FtoB (6) 3HE17655AA - FAN - 7220 IXR-D2L, FtoB
3HE19304AA	CH-BN - 7220 IXR-D2L DC BtF Int Chassis contains: (1) 3HE17645AA - SYS-7220 IXR-D2L 48SFP28 8QSFP28 2SFP+ (2) 3HE17650AA - PS - 7220 IXR-D2L, D3L -48V DC, BtoF (6) 3HE17656AA - FAN - 7220 IXR-D2L, BtoF
3HE19305AA	CH-BN - 7220 IXR-D3L AC FtB Int Chassis contains: (1) 3HE17646AA - SYS - 7220 IXR-D3L 32QSFP28 2SFP+ (2) 3HE17647AA - PS - 7220 IXR-D2L, D3L AC, FtoB (6) 3HE17657AA - FAN - 7220 IXR-D3L, FtoB
3HE19306AA	CH-BN - 7220 IXR-D3L AC BtF Int Chassis contains: (1) 3HE17646AA - SYS - 7220 IXR-D3L 32QSFP28 2SFP+ (2) 3HE17648AA - PS - 7220 IXR-D2L, D3L AC, BtoF (6) 3HE17658AA - FAN - 7220 IXR-D3L, BtoF
3HE19307AA	CH-BN - 7220 IXR-D3L DC FtB Int Chassis contains: (1) 3HE17646AA - SYS - 7220 IXR-D3L 32QSFP28 2SFP+ (2) 3HE17649AA - PS - 7220 IXR-D2L, D3L -48V DC, FtoB (6) 3HE17657AA - FAN - 7220 IXR-D3L, FtoB
3HE19308AA	CH-BN - 7220 IXR-D3L DC BtF Int Chassis contains: (1) 3HE17646AA - SYS - 7220 IXR-D3L 32QSFP28 2SFP+ (2) 3HE17650AA - PS - 7220 IXR-D2L, D3L -48V DC, BtoF (6) 3HE17658AA - FAN - 7220 IXR-D3L, BtoF
3HE19309AA	CH-BN - 7220 IXR-D4 AC FtB Int Chassis contains: (1) 3HE17734AA - SYS - 7220 IXR-D4 8QSFPDD 28QSFP28 (2) 3HE17736AA - PS - 7220 IXR-D4 AC, FtoB (6) 3HE17744AA - FAN - 7220 IXR-D4 D5, FtoB

3HE19310AA	CH-BN - 7220 IXR-D4 AC BtF Int Chassis contains: (1) 3HE17734AA - SYS - 7220 IXR-D4 8QSFPDD 28QSFP28 (2) 3HE17737AA - PS - 7220 IXR-D4 AC, BtoF (6) 3HE17745AA - FAN - 7220 IXR-D4 D5, BtoF
3HE19311AA	CH-BN - 7220 IXR-D4 DC FtB Int Chassis contains: (1) 3HE17734AA - SYS - 7220 IXR-D4 8QSFPDD 28QSFP28 (2) 3HE17738AA - PS - 7220 IXR-D4 DC, FtoB (6) 3HE17744AA - FAN - 7220 IXR-D4 D5, FtoB
3HE19312AA	CH-BN - 7220 IXR-D4 DC BtF Int Chassis contains: (1) 3HE17734AA - SYS - 7220 IXR-D4 8QSFPDD 28QSFP28 (2) 3HE17739AA - PS - 7220 IXR-D4 DC, BtoF (6) 3HE17745AA - FAN - 7220 IXR-D4 D5, BtoF
3HE19313AA	CH-BN - 7220 IXR-D5 AC FtB Int Chassis contains: (1) 3HE17735AB - SYS - 7220 IXR-D5 32QSFPDD (2) 3HE17740AA - PS - 7220 IXR-D5 AC, FtoB (6) 3HE17744AA - FAN - 7220 IXR-D4 D5, FtoB
3HE19314AA	CH-BN - 7220 IXR-D5 AC BtF Int Chassis contains: (1) 3HE17735AB - SYS - 7220 IXR-D5 32QSFPDD (2) 3HE17741AA - PS - 7220 IXR-D5 AC, BtoF (6) 3HE17745AA - FAN - 7220 IXR-D4 D5, BtoF
3HE19315AA	CH-BN - 7220 IXR-D5 DC FtB Int Chassis contains: (1) 3HE17735AB - SYS - 7220 IXR-D5 32QSFPDD (2) 3HE17742AA - PS - 7220 IXR-D5 DC, FtoB (6) 3HE17744AA - FAN - 7220 IXR-D4 D5, FtoB
3HE19316AA	CH-BN - 7220 IXR-D5 DC BtF Int Chassis contains: (1) 3HE17735AB - SYS - 7220 IXR-D5 32QSFPDD (2) 3HE17743AA - PS - 7220 IXR-D5 DC, BtoF (6) 3HE17745AA - FAN - 7220 IXR-D4 D5, BtoF
3HE19317AA	CH-BN - 7220 IXR-H2 AC FtB Int Chassis contains: (1) 3HE16421AA - SYS - 7220 IXR-H2 128QSFP28 (4) 3HE16428AA - PS - 7220 IXR-H2 128QSFP28 AC, FtoB (8) 3HE16430AA - FAN - 7220 IXR-H2 128QSFP28, FtoB (1) 3HE16662AA - ACC - Rail-Kit for 7220 IXR-H2
3HE19318AA	CH-BN - 7220 IXR-H2 AC BtF Int Chassis contains: (1) 3HE16421AA - SYS - 7220 IXR-H2 128QSFP28 (4) 3HE16429AA - PS - 7220 IXR-H2 128QSFP28 AC, BtoF (8) 3HE16431AA - FAN - 7220 IXR-H2 128QSFP28, BtoF (1) 3HE16662AA - ACC - Rail-Kit for 7220 IXR-H2
3HE19319AA	CH-BN - 7220 IXR-H2 DC FtB Int Chassis contains: (1) 3HE16421AA - SYS - 7220 IXR-H2 128QSFP28 (4) 3HE16426AA - PS - 7220 IXR-H2 128QSFP28 -48VDC, FtoB (8) 3HE16430AA - FAN - 7220 IXR-H2 128QSFP28, FtoB (1) 3HE16662AA - ACC - Rail-Kit for 7220 IXR-H2
3HE19320AA	CH-BN - 7220 IXR-H2 DC BtF Int Chassis contains: (1) 3HE16421AA - SYS - 7220 IXR-H2 128QSFP28 (4) 3HE16427AA - PS - 7220 IXR-H2 128QSFP28 -48VDC, BtoF (8) 3HE16431AA - FAN - 7220 IXR-H2 128QSFP28, BtoF (1) 3HE16662AA - ACC - Rail-Kit for 7220 IXR-H2
3HE19321AA	CH-BN - 7220 IXR-H3 AC FtB Int Chassis contains: (1) 3HE16425AA - SYS - 7220 IXR-H3 32QSFPDD 2SFP+ (2) 3HE16434AA - PS - 7220 IXR-H3 32QSFPDD AC, FtoB (6) 3HE16436AA - FAN - 7220 IXR-H3 32QSFPDD, FtoB (1) 3HE16193AA - ACC - Rail-kit for 7220 IXR-Dx, H3

3HE19322AA	CH-BN - 7220 IXR-H3 AC BtF Int Chassis contains: (1) 3HE16425AA - SYS - 7220 IXR-H3 32QSFDD 2SFP+ (2) 3HE16435AA - PS - 7220 IXR-H3 32QSFDD AC, BtoF (6) 3HE16437AA - FAN - 7220 IXR-H3 32QSFDD, BtoF (1) 3HE16193AA - ACC - Rail-kit for 7220 IXR-Dx, H3
3HE19323AA	CH-BN - 7220 IXR-H3 DC FtB Int Chassis contains: (1) 3HE16425AA - SYS - 7220 IXR-H3 32QSFDD 2SFP+ (2) 3HE16432AA - PS - 7220 IXR-H3 32QSFDD -48VDC, FtoB (6) 3HE16436AA - FAN - 7220 IXR-H3 32QSFDD, FtoB (1) 3HE16193AA - ACC - Rail-kit for 7220 IXR-Dx, H3
3HE19324AA	CH-BN - 7220 IXR-H3 DC BtF Int Chassis contains: (1) 3HE16425AA - SYS - 7220 IXR-H3 32QSFDD 2SFP+ (2) 3HE16433AA - PS - 7220 IXR-H3 32QSFDD -48VDC, BtoF (6) 3HE16437AA - FAN - 7220 IXR-H3 32QSFDD, BtoF (1) 3HE16193AA - ACC - Rail-kit for 7220 IXR-Dx, H3
3HE19325AA	CH-BN - 7220 IXR-H4 AC FtB Int Chassis contains: (1) 3HE17750AA - SYS - 7220 IXR-H4 64QSFDD Qty 1, (2) 3HE17752AA - PS - 7220 IXR-H4 64QSFDD AC, FtoB Qty 2, (4) 3HE17753AA - FAN - 7220 IXR-H4 64QSFDD, FtoB Qty 4 (1) 3HE17754AA - ACC - Rail-Kit for 7220 IXR-H4
3HE19326AA	CH-BN - 7220 IXR-H4 DC FtB Int Chassis contains: (1) 3HE17750AA - SYS - 7220 IXR-H4 64QSFDD (2) 3HE17751AA - PS - 7220 IXR-H4 64QSFDD -48VDC, FtoB (4) 3HE17753AA - FAN - 7220 IXR-H4 64QSFDD, FtoB (1) 3HE17754AA - ACC - Rail-Kit for 7220 IXR-H4
3HE19408AA	ACC - EMI Front Cover for 7220 IXR-H2
3HE19587AA	Deepfield Base Platform. Right to Use License. Perpetual License. License for redundant deployment. Optional license. Provides OS, Base code, Database, UI, API.
3HE19588AA	Deepfield Base Platform. Right to Use License. 1 year term License. License for redundant deployment. Optional license. Provides OS, Base code, Database, UI, API.
3HE19589AA	Deepfield Cloud Intelligence Core. Perpetual License. License for redundant deployment. Optional license. License is based on a percentile of all cumulative production Cloud Intelligence Core licenses. Dependencies: Redundant Deepfield Base Platform License, Deepfield Cloud Genome Subscription. Provides traffic visibility into CDN, Sites, Category, system dimensions and custom dimensions.
3HE19590AA	Deepfield Cloud Intelligence Core. 1 year term License. License for redundant deployment. Optional license. License is based on a percentile of all cumulative production Cloud Intelligence Core licenses. Dependencies: Redundant Deepfield Base Platform License, Deepfield Cloud Genome Subscription. Provides traffic visibility into CDN, Sites, Category, system dimensions and custom dimensions.
3HE19591AA	Deepfield Defender Core. Perpetual License. License for redundant deployment. Optional license. License is based on a percentile of all cumulative production Defender Core licenses. Dependencies: Redundant Deepfield Base Platform License, Deepfield Cloud Genome Subscription, Deepfield Secure Genome Subscription. Provides core functionality for DDoS detection and DDoS mitigation.

3HE19592AA	Deepfield Defender Core. 1 year term License. License for redundant deployment. Optional license. License is based on a percentile of all cumulative production Defender Core licenses. Dependencies: Redundant Deepfield Base Platform License, Deepfield Cloud Genome Subscription, Deepfield Secure Genome Subscription. Provides core functionality for DDoS detection and DDoS mitigation.
3HE19593AA	Deepfield Defender Advanced. Perpetual License. License for redundant deployment. Optional license. License is based on a percentile of all cumulative production Defender Advanced licenses. Dependencies: Redundant Deepfield Base Platform License, Deepfield Cloud Genome Subscription, Deepfield Secure Genome Subscription, Redundant Defender Core License. Provides all advanced DDoS features not included in Defender Core.
3HE19594AA	Deepfield Defender Advanced. 1 year term License. License for redundant deployment. Optional license. License is based on a percentile of all cumulative production Defender Advanced licenses. Dependencies: Redundant Deepfield Base Platform License, Deepfield Cloud Genome Subscription, Deepfield Secure Genome Subscription, Redundant Defender Core License. Provides all advanced DDoS features not included in Defender Core.
3HE19595AA	Deepfield Defender MSSP Portal. Perpetual License. License for redundant deployment. Optional license. License is based on a percentile of all cumulative production Defender MSSP Portal licenses. Dependencies: Redundant Deepfield Defender Core License. Provides MSSP Portal for Defender customers to log in and see DDoS related activity for their Organizations.
3HE19596AA	Deepfield Defender MSSP Portal. 1 year term License. License for redundant deployment. Optional license. License is based on a percentile of all cumulative production Defender MSSP Portal licenses. Dependencies: Redundant Deepfield Defender Core License. Provides MSSP Portal for Defender customers to log in and see DDoS related activity for their Organizations.
3HE19597AA	Deepfield Defender Diversion Connector, Arbor/Netscout. Perpetual License. License for redundant deployment. Optional license. License is based on a percentile of all cumulative production Defender Diversion Connector, Arbor/Netscout licenses. Dependencies: Redundant Deepfield Defender Core License. Provides diversion connector to start mitigations using Arbor/Netscout TMS.
3HE19598AA	Deepfield Defender Diversion Connector, Arbor/Netscout. 1 year term License. License for redundant deployment. Optional license. License is based on a percentile of all cumulative production Defender Diversion Connector, Arbor/Netscout licenses. Dependencies: Redundant Deepfield Defender Core License. Provides diversion connector to start mitigations using Arbor/Netscout TMS.
3HE19599AA	Deepfield Defender Diversion Connector, Radware. Perpetual License. License for redundant deployment. Optional license. License is based on a percentile of all cumulative production Defender Diversion Connector, Radware licenses. Dependencies: Redundant Deepfield Defender Core License. Provides diversion connector to start mitigations using Radware.
3HE19600AA	Deepfield Defender Diversion Connector, Radware. 1 year term License. License for redundant deployment. Optional license. License is based on a percentile of all cumulative production Defender Diversion Connector, Radware licenses. Dependencies: Redundant Deepfield Defender Core License. Provides diversion connector to start mitigations using Radware.

3HE19601AA	Deepfield Defender Diversion Connector, A10. Perpetual License. License for redundant deployment. Optional license. License is based on a percentile of all cumulative production Defender Diversion Connector, A10 licenses. Dependencies: Redundant Deepfield Defender Core License. Provides diversion connector to start mitigations using A10 TPS.
3HE19602AA	Deepfield Defender Diversion Connector, A10. 1 year term License. License for redundant deployment. Optional license. License is based on a percentile of all cumulative production Defender Diversion Connector, A10 licenses. Dependencies: Redundant Deepfield Defender Core License. Provides diversion connector to start mitigations using A10 TPS.
3HE19603AA	Deepfield Defender Mitigation System Bandwidth. Perpetual license. Licensed on maximum offramp traffic processed by a DMS individually. Licensed in 100Gbps increments. Nokia SR only. Enables offramp mitigation capacity in 100Gbps increments, from 100 Gbps up to 400 Gbps. This tier must be paid in full before bandwidth greater than this tier can be added. Per DMS license. Software dependencies: Deepfield Base Platform License, Deepfield Cloud Genome Subscription, Deepfield Secure Genome Subscription, Defender Core License. Hardware dependencies: Approved DMS HW with active maintenance and support contract and active SRS contract required. Stateful and application based countermeasures not included.
3HE19604AA	Deepfield Defender Mitigation System Bandwidth. Perpetual license. Licensed on maximum offramp traffic processed by a DMS individually. Licensed in 100Gbps increments. Nokia SR only. Enables offramp mitigation capacity in 100Gbps increments, from 500 Gbps up to 1500 Gbps. This tier must be paid in full before bandwidth greater than this tier can be added. Per DMS license. Software dependencies: Deepfield Base Platform License, Deepfield Cloud Genome Subscription, Deepfield Secure Genome Subscription, Defender Core License. Hardware dependencies: Approved DMS HW with active maintenance and support contract and active SRS contract required. Stateful and application based countermeasures not included.
3HE19605AA	Deepfield Defender Mitigation System Bandwidth. Perpetual license. Licensed on maximum offramp traffic processed by a DMS individually. Licensed in 100Gbps increments. Nokia SR only. Enables offramp mitigation capacity in 100Gbps increments, from 1500 Gbps up to 2800 Gbps. This tier must be paid in full before bandwidth greater than this tier can be added. Per DMS license. Software dependencies: Deepfield Base Platform License, Deepfield Cloud Genome Subscription, Deepfield Secure Genome Subscription, Defender Core License. Hardware dependencies: Approved DMS HW with active maintenance and support contract and active SRS contract required. Stateful and application based countermeasures not included.
3HE19606AA	Deepfield Defender Mitigation System Bandwidth. 1 year term license. Licensed on maximum offramp traffic processed by a DMS individually. Licensed in 100Gbps increments. Nokia SR only. Enables offramp mitigation capacity in 100Gbps increments, from 100 Gbps up to 400 Gbps. This tier must be paid in full before bandwidth greater than this tier can be added. Per DMS license. Dependencies: Deepfield Defender Core, SR-1 router or DMS to be used in a dedicated mitigation configuration. Stateful and application based countermeasures not included. Hardware dependencies: Approved DMS HW with active maintenance and support contract and active SRS contract required.

3HE19607AA	Deepfield Defender Mitigation System Bandwidth. 1 year term license. Licensed on maximum offramp traffic processed by a DMS individually. Licensed in 100Gbps increments. Nokia SR only. Enables additional offramp mitigation capacity in 100Gbps increments, from 500 Gbps up to 1500 Gbps. This tier must be paid in full before bandwidth greater than this tier can be added. Per DMS license. Software dependencies: Deepfield Base Platform License, Deepfield Cloud Genome Subscription, Deepfield Secure Genome Subscription, Defender Core License. Hardware dependencies: Approved DMS HW with active maintenance and support contract and active SRS contract required. Stateful and application based countermeasures not included.
3HE19608AA	Deepfield Defender Mitigation System Bandwidth. 1 year term license. Licensed on maximum offramp traffic processed by a DMS individually. Licensed in 100Gbps increments. Nokia SR only. Enables additional offramp mitigation capacity in 100Gbps increments, from 1600 Gbps up to 2800 Gbps. This tier must be paid in full before bandwidth greater than this tier can be added. Per DMS license. Software dependencies: Deepfield Base Platform License, Deepfield Cloud Genome Subscription, Deepfield Secure Genome Subscription, Defender Core License. Hardware dependencies: Approved DMS HW with active maintenance and support contract and active SRS contract required. Stateful and application based countermeasures not included.
3HE19609AA	Deepfield Service Intelligence Core. Perpetual License. License for redundant deployment. Optional license. License is based on a percentile of all cumulative production Service Intelligence Core licenses. Dependencies: Redundant Deepfield Base Platform License, Redundant Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription. Provides OTT video counts and ABR.
3HE19610AA	Deepfield Service Intelligence Core. 1 year term License. License for redundant deployment. Optional license. License is based on a percentile of all cumulative production Service Intelligence Core licenses. Dependencies: Redundant Deepfield Base Platform License, Redundant Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription. Provides OTT video counts and ABR.
3HE19611AA	Deepfield Subscriber Intelligence Core. Perpetual License. License for redundant deployment. Optional license. License is based on a percentile of all cumulative production Subscriber Intelligence Core licenses. Dependencies: Redundant Deepfield Base Platform License, Redundant Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription. Provides core software for aggregated subscriber analytics. No individual subscriber visibility available.
3HE19612AA	Deepfield Subscriber Intelligence Core. 1 year term License. License for redundant deployment. Optional license. License is based on a percentile of all cumulative production Subscriber Intelligence Core licenses. Dependencies: Redundant Deepfield Base Platform License, Redundant Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription. Provides core software for aggregated subscriber analytics. No individual subscriber visibility available.

3HE19613AA	Deepfield Subscriber Intelligence Granular Insights. Perpetual License. License for redundant deployment. Optional license. License is based on a percentile of all cumulative production Subscriber Intelligence Granular Insights licenses. Dependencies: Redundant Deepfield Base Platform License, Redundant Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription, Redundant Deepfield Subscriber Intelligence Core License. Provides per subscriber visibility on top of Subscriber Intelligence Core.
3HE19614AA	Deepfield Subscriber Intelligence Granular Insights. 1 year term License. License for redundant deployment. Optional license. License is based on a percentile of all cumulative production Subscriber Intelligence Granular Insights licenses. Dependencies: Redundant Deepfield Base Platform License, Redundant Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription, Redundant Deepfield Subscriber Intelligence Core License. Provides per subscriber visibility on top of Subscriber Intelligence Core.
3HE19615AA	Deepfield Subscriber Intelligence Service Usage Module. Perpetual License. License for redundant deployment. Optional license. License is based on a percentile of all cumulative production Subscriber Intelligence Service Usage Module licenses. Dependencies: Redundant Deepfield Base Platform License, Redundant Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription, Redundant Deepfield Subscriber Intelligence Core License. Provides additional analytics and reports for aggregated subscriber profiles.
3HE19616AA	Deepfield Subscriber Intelligence Service Usage Module. 1 year term License. License for redundant deployment. Optional license. License is based on a percentile of all cumulative production Subscriber Intelligence Service Usage Module licenses. Dependencies: Redundant Deepfield Base Platform License, Redundant Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription, Redundant Deepfield Subscriber Intelligence Core License. Provides additional analytics and reports for aggregated subscriber profiles.
3HE19617AA	Deepfield Subscriber Intelligence NAT Module. Perpetual License. License for redundant deployment. Optional license. License is based on a percentile of all cumulative production Subscriber Intelligence NAT Module licenses. Dependencies: Redundant Deepfield Base Platform License, Redundant Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription, Redundant Deepfield Subscriber Intelligence Core License. Provides IP mapping for subscribers behind NAT or MAP-T environments.
3HE19618AA	Deepfield Subscriber Intelligence NAT Module. 1 year term License. License for redundant deployment. Optional license. License is based on a percentile of all cumulative production Subscriber Intelligence NAT Module licenses. Dependencies: Redundant Deepfield Base Platform License, Redundant Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription, Redundant Deepfield Subscriber Intelligence Core License. Provides IP mapping for subscribers behind NAT or MAP-T environments.
3HE19619AA	Deepfield Operational Intelligence Core. Perpetual License. License for redundant deployment. Optional license. License is based on a percentile of all cumulative production Operational Intelligence Core licenses. Dependencies: Redundant Deepfield Base Platform License, Redundant Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription. Provides traffic baselining and alerting.

3HE19620AA	Deepfield Operational Intelligence Core. 1 year term License. License for redundant deployment. Optional license. License is based on a percentile of all cumulative production Operational Intelligence Core licenses. Dependencies: Redundant Deepfield Base Platform License, Redundant Deepfield Cloud Intelligence License, Deepfield Cloud Genome Subscription. Provides traffic baselining and alerting.
3HE19621AA	Deepfield Emergency Response Team (ERT). Dependencies: Deepfield Defender Core, active Gold Maintenance & Support.

Changed

GLP (\$USD)	DISCOUNT	UNIT PRICE (\$USD)
\$ 100.00	35%	\$ 65.00
\$ 345.00	35%	\$ 224.25
\$ 995.00	35%	\$ 646.75
\$ 4,995.00	35%	\$ 3,246.75
\$ 1,200.00	35%	\$ 780.00
\$ 1,200.00	35%	\$ 780.00
\$ 1,600.00	35%	\$ 1,040.00
\$ 330.00	35%	\$ 214.50
\$ 330.00	35%	\$ 214.50
\$ 90.00	35%	\$ 58.50
\$ 950.00	35%	\$ 617.50
\$ 75.00	35%	\$ 48.75
\$ 75.00	35%	\$ 48.75
\$ 75.00	35%	\$ 48.75
\$ 75.00	35%	\$ 48.75
\$ 75.00	35%	\$ 48.75
\$ 75.00	35%	\$ 48.75
\$ 75.00	35%	\$ 48.75
\$ 700.00	35%	\$ 455.00
\$ 500.00	35%	\$ 325.00

\$	75.00	35%	\$ 48.75
\$	75.00	35%	\$ 48.75
\$	75.00	35%	\$ 48.75
\$	75.00	35%	\$ 48.75
\$	75.00	35%	\$ 48.75
\$	75.00	35%	\$ 48.75
\$	1,995.00	35%	\$ 1,296.75
\$	1,400.00	35%	\$ 910.00
\$	1,400.00	35%	\$ 910.00
\$	50.00	35%	\$ 32.50
\$	100.00	35%	\$ 65.00
\$	7,500.00	35%	\$ 4,875.00
\$	125.00	35%	\$ 81.25
\$	175.00	35%	\$ 113.75
\$	200.00	35%	\$ 130.00
\$	125.00	35%	\$ 81.25
\$	125.00	35%	\$ 81.25
\$	125.00	35%	\$ 81.25

\$ 6,000.00	35%	\$ 3,900.00
\$ 6,750.00	35%	\$ 4,387.50
\$ 3,500.00	35%	\$ 2,275.00
\$ 4,050.00	35%	\$ 2,632.50
\$ 5,000.00	35%	\$ 3,250.00
\$ 5,600.00	35%	\$ 3,640.00
\$ 7,000.00	35%	\$ 4,550.00
\$ 6,200.00	35%	\$ 4,030.00
\$ 7,000.00	35%	\$ 4,550.00
\$ 700.00	35%	\$ 455.00
\$ 850.00	35%	\$ 552.50

\$ 850.00	35%	\$ 552.50
\$ 850.00	35%	\$ 552.50
\$ 750.00	35%	\$ 487.50
\$ 750.00	35%	\$ 487.50
\$ 750.00	35%	\$ 487.50
\$ 2,500.00	35%	\$ 1,625.00
\$ 2,000.00	35%	\$ 1,300.00
\$ 150.00	35%	\$ 97.50
\$ 75.00	35%	\$ 48.75

\$ 125.00	35%	\$ 81.25
\$ 400.00	35%	\$ 260.00
\$ 10,500.00	35%	\$ 6,825.00
\$ 4,200.00	35%	\$ 2,730.00
\$ 4,750.00	35%	\$ 3,087.50
\$ 9,300.00	35%	\$ 6,045.00
\$ 10,800.00	35%	\$ 7,020.00
\$ 1,500.00	35%	\$ 975.00
\$ 3,200.00	35%	\$ 2,080.00
\$ 200.00	35%	\$ 130.00
\$ 200.00	35%	\$ 130.00
\$ 750.00	35%	\$ 487.50
\$ 1,500.00	35%	\$ 975.00
\$ 150.00	35%	\$ 97.50

\$ 1,500.00	35%	\$ 975.00
\$ 1,500.00	35%	\$ 975.00
\$ 4,000.00	35%	\$ 2,600.00
\$ 1,500.00	35%	\$ 975.00
\$ 1,500.00	35%	\$ 975.00
\$ 4,000.00	35%	\$ 2,600.00
\$ 150.00	35%	\$ 97.50
\$ 750.00	35%	\$ 487.50
\$ 2,500.00	35%	\$ 1,625.00
\$ 125.00	35%	\$ 81.25

\$ 21,850.00	35%	\$ 14,202.50
\$ 2,600.00	35%	\$ 1,690.00
\$ 2,600.00	35%	\$ 1,690.00
\$ 399.00	35%	\$ 259.35
\$ 480.00	35%	\$ 312.00
\$ 140.00	35%	\$ 91.00
\$ 1,500.00	35%	\$ 975.00
\$ 1,500.00	35%	\$ 975.00
\$ 1,500.00	35%	\$ 975.00
\$ 3,000.00	35%	\$ 1,950.00
\$ 3,000.00	35%	\$ 1,950.00
\$ 125.00	35%	\$ 81.25

\$ 3,000.00	35%	\$ 1,950.00
\$ 3,000.00	35%	\$ 1,950.00
\$ 125.00	35%	\$ 81.25
\$ 125.00	35%	\$ 81.25
\$ 3,995.00	35%	\$ 2,596.75
\$ 2,995.00	35%	\$ 1,946.75
\$ 20,000.00	35%	\$ 13,000.00
\$ 10,000.00	35%	\$ 6,500.00
\$ 10,000.00	35%	\$ 6,500.00
\$ 2,000.00	35%	\$ 1,300.00
\$ 2,600.00	35%	\$ 1,690.00
\$ 2,600.00	35%	\$ 1,690.00
\$ 2,600.00	35%	\$ 1,690.00
\$ 2,600.00	35%	\$ 1,690.00
\$ 2,600.00	35%	\$ 1,690.00

\$ 2,600.00	35%	\$ 1,690.00
\$ 2,600.00	35%	\$ 1,690.00
\$ 2,600.00	35%	\$ 1,690.00
\$ 18,000.00	35%	\$ 11,700.00
\$ 10,000.00	35%	\$ 6,500.00
\$ 7,500.00	35%	\$ 4,875.00
\$ 2,500.00	35%	\$ 1,625.00
\$ 750.00	35%	\$ 487.50
\$ 600.00	35%	\$ 390.00
\$ 11,995.00	35%	\$ 7,796.75
\$ 3,995.00	35%	\$ 2,596.75
\$ 3,995.00	35%	\$ 2,596.75
\$ 3,995.00	35%	\$ 2,596.75
\$ 3,995.00	35%	\$ 2,596.75
\$ 2,900.00	35%	\$ 1,885.00
\$ 1,000.00	35%	\$ 650.00
\$ 8,000.00	35%	\$ 5,200.00
\$ 40,000.00	35%	\$ 26,000.00
\$ 12,000.00	35%	\$ 7,800.00

\$ 40,000.00	35%	\$ 26,000.00
\$ 30,000.00	35%	\$ 19,500.00
\$ 30,000.00	35%	\$ 19,500.00
\$ 6,250.00	35%	\$ 4,062.50
\$ 6,500.00	35%	\$ 4,225.00
\$ 40,000.00	35%	\$ 26,000.00
\$ 2,250.00	35%	\$ 1,462.50
\$ 1,200.00	35%	\$ 780.00
\$ 4,800.00	35%	\$ 3,120.00
\$ 250.00	35%	\$ 162.50
\$ 1,500.00	35%	\$ 975.00
\$ 1,500.00	35%	\$ 975.00
\$ 1,500.00	35%	\$ 975.00
\$ 620.00	35%	\$ 403.00
\$ 775.00	35%	\$ 503.75
\$ 975.00	35%	\$ 633.75
Custom	-	-

Custom	-	-
\$ 260.00	35%	\$ 169.00
\$ 1,550.00	35%	\$ 1,007.50
\$ 5,500.00	35%	\$ 3,575.00
\$ 6,200.00	35%	\$ 4,030.00
\$ 450.00	35%	\$ 292.50
\$ 7,000.00	35%	\$ 4,550.00
\$ 6,200.00	35%	\$ 4,030.00
\$ 7,750.00	35%	\$ 5,037.50
\$ 7,200.00	35%	\$ 4,680.00
\$ 8,800.00	35%	\$ 5,720.00
\$ 37,500.00	35%	\$ 24,375.00
\$ 850.00	35%	\$ 552.50
\$ 900.00	35%	\$ 585.00
\$ 120.00	35%	\$ 78.00
\$ 250.00	35%	\$ 162.50
\$ 175.00	35%	\$ 113.75

\$ 10,000.00	35%	\$ 6,500.00
\$ 20,000.00	35%	\$ 13,000.00
\$ 4,000.00	35%	\$ 2,600.00
\$ 12,000.00	35%	\$ 7,800.00
\$ 20,000.00	35%	\$ 13,000.00
\$ 32,000.00	35%	\$ 20,800.00
\$ 60,000.00	35%	\$ 39,000.00
\$ 5,000.00	35%	\$ 3,250.00
\$ 5,000.00	35%	\$ 3,250.00
\$ 5,000.00	35%	\$ 3,250.00
\$ 5,000.00	35%	\$ 3,250.00
\$ 5,000.00	35%	\$ 3,250.00

\$ 5,000.00	35%	\$ 3,250.00
\$ 5,000.00	35%	\$ 3,250.00
\$ 5,000.00	35%	\$ 3,250.00
\$ 8,000.00	35%	\$ 5,200.00
\$ 8,000.00	35%	\$ 5,200.00
\$ 8,000.00	35%	\$ 5,200.00
\$ 8,000.00	35%	\$ 5,200.00
\$ 8,000.00	35%	\$ 5,200.00
\$ 8,000.00	35%	\$ 5,200.00
\$ 8,000.00	35%	\$ 5,200.00
\$ 10,000.00	35%	\$ 6,500.00
\$ 1,200.00	35%	\$ 780.00
\$ 1,200.00	35%	\$ 780.00
\$ 1,200.00	35%	\$ 780.00
\$ 2,500.00	35%	\$ 1,625.00
\$ 3,000.00	35%	\$ 1,950.00
\$ 1,100.00	35%	\$ 715.00
\$ 1,800.00	35%	\$ 1,170.00

\$ 5,000.00	35%	\$ 3,250.00
\$ 5,600.00	35%	\$ 3,640.00
\$ 750.00	35%	\$ 487.50
\$ 1,300.00	35%	\$ 845.00
\$ 11,995.00	35%	\$ 7,796.75
\$ 11,995.00	35%	\$ 7,796.75
\$ 11,995.00	35%	\$ 7,796.75
\$ 11,995.00	35%	\$ 7,796.75
\$ 11,995.00	35%	\$ 7,796.75
\$ 11,995.00	35%	\$ 7,796.75
\$ 11,995.00	35%	\$ 7,796.75
\$ 11,995.00	35%	\$ 7,796.75
\$ 90,000.00	35%	\$ 58,500.00
\$ 4,350.00	35%	\$ 2,827.50
\$ 60,000.00	35%	\$ 39,000.00
\$ 20,000.00	35%	\$ 13,000.00
\$ 20,000.00	35%	\$ 13,000.00
\$ 20,000.00	35%	\$ 13,000.00
\$ 4,000.00	35%	\$ 2,600.00
\$ 6,000.00	35%	\$ 3,900.00
\$ 10,000.00	35%	\$ 6,500.00
\$ 20,000.00	35%	\$ 13,000.00
\$ 30,000.00	35%	\$ 19,500.00

\$ 60,000.00	35%	\$ 39,000.00
\$ 50,000.00	35%	\$ 32,500.00
\$ 4,000.00	35%	\$ 2,600.00
\$ 8,000.00	35%	\$ 5,200.00
\$ 16,000.00	35%	\$ 10,400.00
\$ 25,000.00	35%	\$ 16,250.00
\$ 50,000.00	35%	\$ 32,500.00
\$ 75,000.00	35%	\$ 48,750.00
\$ 100,000.00	35%	\$ 65,000.00
\$ 6,750.00	35%	\$ 4,387.50
\$ 7,600.00	35%	\$ 4,940.00
\$ 800.00	35%	\$ 520.00
\$ 1,700.00	35%	\$ 1,105.00
\$ 800.00	35%	\$ 520.00
\$ 50,000.00	35%	\$ 32,500.00
\$ 2,000.00	35%	\$ 1,300.00

\$ 50,000.00	35%	\$ 32,500.00
\$ 2,000.00	35%	\$ 1,300.00
\$ 50,000.00	35%	\$ 32,500.00
\$ 2,000.00	35%	\$ 1,300.00
\$ 1,700.00	35%	\$ 1,105.00
\$ 250.00	35%	\$ 162.50
\$ 250.00	35%	\$ 162.50
\$ 85,000.00	35%	\$ 55,250.00
\$ 1,500.00	35%	\$ 975.00
\$ 4,000.00	35%	\$ 2,600.00
\$ 550.00	35%	\$ 357.50

\$ 20,000.00	35%	\$ 13,000.00
\$ 30,000.00	35%	\$ 19,500.00
\$ 40,000.00	35%	\$ 26,000.00
\$ 20,000.00	35%	\$ 13,000.00
\$ 30,000.00	35%	\$ 19,500.00
\$ 40,000.00	35%	\$ 26,000.00
\$ 5,000.00	35%	\$ 3,250.00
\$ 20,000.00	35%	\$ 13,000.00
\$ 1,270.00	35%	\$ 825.50
\$ 75,000.00	35%	\$ 48,750.00

\$ 35,000.00	35%	\$ 22,750.00
\$ 10,500.00	35%	\$ 6,825.00
\$ 14,500.00	35%	\$ 9,425.00
\$ 75,000.00	35%	\$ 48,750.00
\$ 3,500.00	35%	\$ 2,275.00
\$ 1,080.00	35%	\$ 702.00
\$ 5,400.00	35%	\$ 3,510.00
\$ 1,200.00	35%	\$ 780.00
\$ 1,200.00	35%	\$ 780.00
\$ 9,700.00	35%	\$ 6,305.00
\$ 4,000.00	35%	\$ 2,600.00
\$ 150.00	35%	\$ 97.50
\$ 5,000.00	35%	\$ 3,250.00
\$ 50,000.00	35%	\$ 32,500.00
\$ 500.00	35%	\$ 325.00
\$ 175.00	35%	\$ 113.75
\$ 400.00	35%	\$ 260.00
\$ 350.00	35%	\$ 227.50
\$ 700.00	35%	\$ 455.00
\$ 300.00	35%	\$ 195.00
\$ 300.00	35%	\$ 195.00
\$ 3,000.00	35%	\$ 1,950.00

\$ 29,000.00	35%	\$ 18,850.00
\$ 4,000.00	35%	\$ 2,600.00
\$ 6,000.00	35%	\$ 3,900.00
\$ 14,700.00	35%	\$ 9,555.00
\$ 16,000.00	35%	\$ 10,400.00
\$ 250.00	35%	\$ 162.50
\$ 250.00	35%	\$ 162.50
\$ 6,000.00	35%	\$ 3,900.00
\$ 750.00	35%	\$ 487.50
\$ 450.00	35%	\$ 292.50
\$ 500.00	35%	\$ 325.00
\$ 250.00	35%	\$ 162.50
\$ 250.00	35%	\$ 162.50
\$ 250.00	35%	\$ 162.50
\$ 5,000.00	35%	\$ 3,250.00
\$ 750.00	35%	\$ 487.50
\$ 675.00	35%	\$ 438.75
\$ 9,375.00	35%	\$ 6,093.75
\$ 90.00	35%	\$ 58.50
\$ 120.00	35%	\$ 78.00
\$ 90.00	35%	\$ 58.50
\$ 1,500.00	35%	\$ 975.00
\$ 60,000.00	35%	\$ 39,000.00
\$ 10,000.00	35%	\$ 6,500.00
\$ 1,500.00	35%	\$ 975.00

\$ 3,250.00	35%	\$ 2,112.50
\$ 17,500.00	35%	\$ 11,375.00
\$ 35,000.00	35%	\$ 22,750.00
\$ 2,700.00	35%	\$ 1,755.00
\$ 2,700.00	35%	\$ 1,755.00
\$ 4,500.00	35%	\$ 2,925.00
\$ 4,500.00	35%	\$ 2,925.00
\$ 60,000.00	35%	\$ 39,000.00
\$ 55,000.00	35%	\$ 35,750.00
\$ 35,000.00	35%	\$ 22,750.00
\$ 55,000.00	35%	\$ 35,750.00
\$ 35,000.00	35%	\$ 22,750.00
\$ 60,000.00	35%	\$ 39,000.00
\$ 24,550.00	35%	\$ 15,957.50
\$ 25,700.00	35%	\$ 16,705.00
\$ 1,800.00	35%	\$ 1,170.00
\$ 2,200.00	35%	\$ 1,430.00
\$ 2,600.00	35%	\$ 1,690.00
\$ 120.00	35%	\$ 78.00
\$ 1,500.00	35%	\$ 975.00
\$ 2,250.00	35%	\$ 1,462.50
\$ 3,000.00	35%	\$ 1,950.00
\$ 1,500.00	35%	\$ 975.00

\$ 2,250.00	35%	\$ 1,462.50
\$ 3,000.00	35%	\$ 1,950.00
\$ 1,500.00	35%	\$ 975.00
\$ 2,250.00	35%	\$ 1,462.50
\$ 3,000.00	35%	\$ 1,950.00
\$ 1,500.00	35%	\$ 975.00
\$ 2,250.00	35%	\$ 1,462.50
\$ 3,000.00	35%	\$ 1,950.00
\$ 2,300.00	35%	\$ 1,495.00
\$ 3,430.00	35%	\$ 2,229.50
\$ 4,500.00	35%	\$ 2,925.00
\$ 3,000.00	35%	\$ 1,950.00
\$ 4,500.00	35%	\$ 2,925.00
\$ 6,000.00	35%	\$ 3,900.00

\$ 2,300.00	35%	\$ 1,495.00
\$ 3,430.00	35%	\$ 2,229.50
\$ 4,500.00	35%	\$ 2,925.00
\$ 1,500.00	35%	\$ 975.00
\$ 2,250.00	35%	\$ 1,462.50
\$ 3,000.00	35%	\$ 1,950.00
\$ 400.00	35%	\$ 260.00
\$ 100.00	35%	\$ 65.00
\$ 16,500.00	35%	\$ 10,725.00

\$ 3,500.00	35%	\$ 2,275.00
\$ 3,500.00	35%	\$ 2,275.00
\$ 2,000.00	35%	\$ 1,300.00
\$ 1,500.00	35%	\$ 975.00
\$ 1,500.00	35%	\$ 975.00
\$ 1,500.00	35%	\$ 975.00
\$ 12,000.00	35%	\$ 7,800.00

\$ 100,000.00	35%	\$ 65,000.00
\$ 100,000.00	35%	\$ 65,000.00
\$ 70,000.00	35%	\$ 45,500.00
\$ 40,000.00	35%	\$ 26,000.00
\$ 750.00	35%	\$ 487.50
\$ 360.00	35%	\$ 234.00
\$ 20,000.00	35%	\$ 13,000.00
\$ 4,750.00	35%	\$ 3,087.50
\$ 4,250.00	35%	\$ 2,762.50
\$ 4,950.00	35%	\$ 3,217.50
\$ 4,250.00	35%	\$ 2,762.50
\$ 4,150.00	35%	\$ 2,697.50
\$ 250.00	35%	\$ 162.50
\$ 16,000.00	35%	\$ 10,400.00
\$ 19,000.00	35%	\$ 12,350.00
\$ 1,700.00	35%	\$ 1,105.00
\$ 2,300.00	35%	\$ 1,495.00
\$ 2,700.00	35%	\$ 1,755.00
\$ 3,200.00	35%	\$ 2,080.00
\$ 9,750.00	35%	\$ 6,337.50
\$ 66,000.00	35%	\$ 42,900.00
\$ 39,000.00	35%	\$ 25,350.00
\$ 23,000.00	35%	\$ 14,950.00
\$ 29,000.00	35%	\$ 18,850.00
\$ 17,200.00	35%	\$ 11,180.00
\$ 13,600.00	35%	\$ 8,840.00
\$ 17,600.00	35%	\$ 11,440.00

\$ 16,000.00	35%	\$ 10,400.00
\$ 35,500.00	35%	\$ 23,075.00
\$ 36,000.00	35%	\$ 23,400.00
\$ 44,500.00	35%	\$ 28,925.00
\$ 45,000.00	35%	\$ 29,250.00
\$ 400.00	35%	\$ 260.00
\$ 3,500.00	35%	\$ 2,275.00
\$ 3,500.00	35%	\$ 2,275.00
\$ 3,500.00	35%	\$ 2,275.00

\$ 3,500.00	35%	\$ 2,275.00
\$ 6,000.00	35%	\$ 3,900.00
\$ 8,000.00	35%	\$ 5,200.00
\$ 8,000.00	35%	\$ 5,200.00
\$ 3,500.00	35%	\$ 2,275.00
\$ 450.00	35%	\$ 292.50
\$ 20,000.00	35%	\$ 13,000.00
\$ 104,000.00	35%	\$ 67,600.00

\$ 85,000.00	35%	\$ 55,250.00
\$ 104,000.00	35%	\$ 67,600.00
\$ 54,500.00	35%	\$ 35,425.00
\$ 185,000.00	35%	\$ 120,250.00
\$ 30,000.00	35%	\$ 19,500.00
\$ 100,000.00	35%	\$ 65,000.00
\$ 75,000.00	35%	\$ 48,750.00
\$ 25,000.00	35%	\$ 16,250.00
\$ 25,000.00	35%	\$ 16,250.00
\$ 20,000.00	35%	\$ 13,000.00
\$ 40,000.00	35%	\$ 26,000.00
\$ 60,000.00	35%	\$ 39,000.00
\$ 80,000.00	35%	\$ 52,000.00
\$ 20,000.00	35%	\$ 13,000.00
\$ 25,000.00	35%	\$ 16,250.00
\$ 50,000.00	35%	\$ 32,500.00
\$ 85,000.00	35%	\$ 55,250.00
\$ 170,000.00	35%	\$ 110,500.00
\$ 350,000.00	35%	\$ 227,500.00
\$ 700,000.00	35%	\$ 455,000.00
\$ 1,500.00	35%	\$ 975.00

\$ 5,000.00	35%	\$ 3,250.00
\$ 1,500.00	35%	\$ 975.00
\$ 2,995.00	35%	\$ 1,946.75
\$ 3,995.00	35%	\$ 2,596.75
\$ 11,995.00	35%	\$ 7,796.75
\$ 19,995.00	35%	\$ 12,996.75
\$ 5,000.00	35%	\$ 3,250.00

\$ 5,000.00	35%	\$ 3,250.00
\$ 5,000.00	35%	\$ 3,250.00
\$ 150.00	35%	\$ 97.50
\$ 400.00	35%	\$ 260.00
\$ 900.00	35%	\$ 585.00
\$ 800.00	35%	\$ 520.00
\$ 900.00	35%	\$ 585.00
\$ 800.00	35%	\$ 520.00
\$ 1,200.00	35%	\$ 780.00
\$ 1,350.00	35%	\$ 877.50
\$ 1,400.00	35%	\$ 910.00
\$ 1,900.00	35%	\$ 1,235.00
\$ 1,250.00	35%	\$ 812.50
\$ 1,800.00	35%	\$ 1,170.00
\$ 400.00	35%	\$ 260.00

\$ 900.00	35%	\$ 585.00
\$ 900.00	35%	\$ 585.00
\$ 2,700.00	35%	\$ 1,755.00
\$ 3,200.00	35%	\$ 2,080.00
\$ 18,000.00	35%	\$ 11,700.00
\$ 29,000.00	35%	\$ 18,850.00
\$ 45,000.00	35%	\$ 29,250.00
\$ 400.00	35%	\$ 260.00
\$ 400.00	35%	\$ 260.00
\$ 400.00	35%	\$ 260.00
\$ 6,950.00	35%	\$ 4,517.50
\$ 2,780.00	35%	\$ 1,807.00
\$ 422,500.00	35%	\$ 274,625.00

\$ 125,000.00	35%	\$ 81,250.00
\$ 250,000.00	35%	\$ 162,500.00
\$ 145,000.00	35%	\$ 94,250.00
\$ 810.00	35%	\$ 526.50
\$ 35.00	35%	\$ 22.75
\$ 2,000.00	35%	\$ 1,300.00
\$ 2,000.00	35%	\$ 1,300.00
\$ 2,000.00	35%	\$ 1,300.00
\$ 2,000.00	35%	\$ 1,300.00
\$ 6,000.00	35%	\$ 3,900.00
\$ 6,000.00	35%	\$ 3,900.00
\$ 2,000.00	35%	\$ 1,300.00
\$ 2,000.00	35%	\$ 1,300.00
\$ 2,000.00	35%	\$ 1,300.00
\$ 6,000.00	35%	\$ 3,900.00

\$ 2,000.00	35%	\$ 1,300.00
\$ 150.00	35%	\$ 97.50
\$ 120.00	35%	\$ 78.00
\$ 150.00	35%	\$ 97.50
\$ 200.00	35%	\$ 130.00
\$ 375.00	35%	\$ 243.75
\$ 180.00	35%	\$ 117.00
\$ 185,000.00	35%	\$ 120,250.00
\$ 300.00	35%	\$ 195.00
\$ 266.00	35%	\$ 172.90
\$ 175.00	35%	\$ 113.75
\$ 10,000.00	35%	\$ 6,500.00
\$ 10,000.00	35%	\$ 6,500.00
\$ 950.00	35%	\$ 617.50
\$ 950.00	35%	\$ 617.50
\$ 950.00	35%	\$ 617.50
\$ 2,500.00	35%	\$ 1,625.00
\$ 35,000.00	35%	\$ 22,750.00
\$ 100,000.00	35%	\$ 65,000.00
\$ 10,000.00	35%	\$ 6,500.00

\$ 2,500.00	35%	\$ 1,625.00
\$ 1,000,000.00	35%	\$ 650,000.00
\$ 1,400,000.00	35%	\$ 910,000.00
\$ 1,750,000.00	35%	\$ 1,137,500.00
\$ 2,100,000.00	35%	\$ 1,365,000.00
\$ 375.00	35%	\$ 243.75
\$ 350.00	35%	\$ 227.50
\$ 360.00	35%	\$ 234.00
\$ 275.00	35%	\$ 178.75
\$ 275.00	35%	\$ 178.75
\$ 11,000.00	35%	\$ 7,150.00
\$ 16,000.00	35%	\$ 10,400.00
\$ 17,000.00	35%	\$ 11,050.00
\$ 680.00	35%	\$ 442.00
\$ 1,750.00	35%	\$ 1,137.50
\$ 10,800.00	35%	\$ 7,020.00
\$ 12,800.00	35%	\$ 8,320.00
\$ 10,000.00	35%	\$ 6,500.00

\$ 225.00	35%	\$ 146.25
\$ 225.00	35%	\$ 146.25
\$ 400.00	35%	\$ 260.00
\$ 700.00	35%	\$ 455.00
\$ 800.00	35%	\$ 520.00
\$ 900.00	35%	\$ 585.00
\$ 1,900.00	35%	\$ 1,235.00
\$ 2,100.00	35%	\$ 1,365.00
\$ 2,500.00	35%	\$ 1,625.00
\$ 31,000.00	35%	\$ 20,150.00
\$ 35,000.00	35%	\$ 22,750.00
\$ 37,000.00	35%	\$ 24,050.00
\$ 7,200.00	35%	\$ 4,680.00
\$ 7,900.00	35%	\$ 5,135.00
\$ 8,900.00	35%	\$ 5,785.00
\$ 5,000.00	35%	\$ 3,250.00
\$ 45,000.00	35%	\$ 29,250.00
\$ 198,000.00	35%	\$ 128,700.00
\$ 117,000.00	35%	\$ 76,050.00

\$ 69,000.00	35%	\$ 44,850.00
\$ 700.00	35%	\$ 455.00
\$ 12,500.00	35%	\$ 8,125.00
\$ 2,300.00	35%	\$ 1,495.00
\$ 650.00	35%	\$ 422.50
\$ 19,995.00	35%	\$ 12,996.75
\$ 19,995.00	35%	\$ 12,996.75
\$ 19,995.00	35%	\$ 12,996.75
\$ 19,995.00	35%	\$ 12,996.75
\$ 19,995.00	35%	\$ 12,996.75
\$ 19,995.00	35%	\$ 12,996.75
\$ 19,995.00	35%	\$ 12,996.75
\$ 19,995.00	35%	\$ 12,996.75
\$ 19,995.00	35%	\$ 12,996.75
\$ 11,950.00	35%	\$ 7,767.50
\$ 11,950.00	35%	\$ 7,767.50
\$ 12,052.00	35%	\$ 7,833.80

\$ 17,500.00	35%	\$ 11,375.00
\$ 17,400.00	35%	\$ 11,310.00
\$ 17,750.00	35%	\$ 11,537.50
\$ 11,840.00	35%	\$ 7,696.00
\$ 11,854.00	35%	\$ 7,705.10
\$ 11,863.00	35%	\$ 7,710.95
\$ 17,500.00	35%	\$ 11,375.00
\$ 17,500.00	35%	\$ 11,375.00
\$ 17,500.00	35%	\$ 11,375.00

\$ 900.00	35%	\$ 585.00
\$ 900.00	35%	\$ 585.00
\$ 500.00	35%	\$ 325.00
\$ 500.00	35%	\$ 325.00
\$ 31,000.00	35%	\$ 20,150.00
\$ 50,000.00	35%	\$ 32,500.00
\$ 50,000.00	35%	\$ 32,500.00
\$ 87,000.00	35%	\$ 56,550.00
\$ 275.00	35%	\$ 178.75
\$ 5,995.00	35%	\$ 3,896.75
\$ 5,995.00	35%	\$ 3,896.75

\$ 60,000.00	35%	\$ 39,000.00
\$ 60,000.00	35%	\$ 39,000.00
\$ 70,000.00	35%	\$ 45,500.00
\$ 70,000.00	35%	\$ 45,500.00

\$ 80,000.00	35%	\$ 52,000.00
\$ 80,000.00	35%	\$ 52,000.00
\$ 950.00	35%	\$ 617.50
\$ 9,100.00	35%	\$ 5,915.00
\$ 8,500.00	35%	\$ 5,525.00
\$ 8,350.00	35%	\$ 5,427.50
\$ 7,500.00	35%	\$ 4,875.00
\$ 9,575.00	35%	\$ 6,223.75

\$ 8,650.00	35%	\$ 5,622.50
\$ 750.00	35%	\$ 487.50
\$ 1,430.00	35%	\$ 929.50
\$ 640.00	35%	\$ 416.00
\$ 700.00	35%	\$ 455.00
\$ 1,200.00	35%	\$ 780.00
\$ 1,500.00	35%	\$ 975.00
\$ 6,325.00	35%	\$ 4,111.25
\$ 6,450.00	35%	\$ 4,192.50
\$ 5,000.00	35%	\$ 3,250.00
\$ 5,200.00	35%	\$ 3,380.00

\$ 6,325.00	35%	\$ 4,111.25
\$ 6,450.00	35%	\$ 4,192.50
\$ 4,825.00	35%	\$ 3,136.25
\$ 5,000.00	35%	\$ 3,250.00
\$ 8,400.00	35%	\$ 5,460.00
\$ 7,000.00	35%	\$ 4,550.00

\$ 455.00	35%	\$ 295.75
\$ 1,100.00	35%	\$ 715.00
\$ 1,100.00	35%	\$ 715.00
\$ 40,000.00	35%	\$ 26,000.00
\$ 6,500.00	35%	\$ 4,225.00
\$ 28,000.00	35%	\$ 18,200.00
\$ 9,999.00	35%	\$ 6,499.35
\$ 25,000.00	35%	\$ 16,250.00
\$ 40,000.00	35%	\$ 26,000.00
\$ 60,000.00	35%	\$ 39,000.00
\$ 422,500.00	35%	\$ 274,625.00
\$ 125,000.00	35%	\$ 81,250.00
\$ 250,000.00	35%	\$ 162,500.00
\$ 225.00	35%	\$ 146.25
\$ 225.00	35%	\$ 146.25
\$ 35,000.00	35%	\$ 22,750.00
\$ 45,000.00	35%	\$ 29,250.00

\$ 800.00	35%	\$ 520.00
\$ 1,800.00	35%	\$ 1,170.00
\$ 40,800.00	35%	\$ 26,520.00
\$ 60,000.00	35%	\$ 39,000.00
\$ 1,000.00	35%	\$ 650.00
\$ 1,000.00	35%	\$ 650.00

\$ 600.00	35%	\$ 390.00
\$ 500.00	35%	\$ 325.00
\$ 500.00	35%	\$ 325.00
\$ 25,000.00	35%	\$ 16,250.00
\$ 25,000.00	35%	\$ 16,250.00
\$ 170.00	35%	\$ 110.50
\$ 25,000.00	35%	\$ 16,250.00
\$ 3,350.00	35%	\$ 2,177.50
\$ 3,500.00	35%	\$ 2,275.00
\$ 260.00	35%	\$ 169.00
\$ 485.00	35%	\$ 315.25
\$ 600.00	35%	\$ 390.00
\$ 525.00	35%	\$ 341.25

\$ 525.00	35%	\$ 341.25
\$ 240,000.00	35%	\$ 156,000.00
\$ 1,600.00	35%	\$ 1,040.00
\$ 1,600.00	35%	\$ 1,040.00
\$ 1,300.00	35%	\$ 845.00
\$ 1,300.00	35%	\$ 845.00
\$ 15,000.00	35%	\$ 9,750.00
\$ 15,000.00	35%	\$ 9,750.00
\$ 15,000.00	35%	\$ 9,750.00
\$ 31,500.00	35%	\$ 20,475.00

\$ 47,500.00	35%	\$ 30,875.00
\$ 4,500.00	35%	\$ 2,925.00
\$ 6,800.00	35%	\$ 4,420.00
\$ 11,500.00	35%	\$ 7,475.00
\$ 3,000.00	35%	\$ 1,950.00
\$ 1,200.00	35%	\$ 780.00
\$ 1,500.00	35%	\$ 975.00
\$ 200.00	35%	\$ 130.00

\$ 20,000.00	35%	\$ 13,000.00
\$ 40,000.00	35%	\$ 26,000.00
\$ 40,000.00	35%	\$ 26,000.00
\$ 30,000.00	35%	\$ 19,500.00
\$ 15,000.00	35%	\$ 9,750.00
\$ 30,000.00	35%	\$ 19,500.00
\$ 2,000.00	35%	\$ 1,300.00
\$ 30,000.00	35%	\$ 19,500.00
\$ 15,000.00	35%	\$ 9,750.00
\$ 7,500.00	35%	\$ 4,875.00
\$ 20,000.00	35%	\$ 13,000.00

\$ 20,000.00	35%	\$ 13,000.00
\$ 25,000.00	35%	\$ 16,250.00
\$ 40,000.00	35%	\$ 26,000.00
\$ 10,000.00	35%	\$ 6,500.00
\$ 100,000.00	35%	\$ 65,000.00
\$ 10,000.00	35%	\$ 6,500.00
\$ 12,500.00	35%	\$ 8,125.00
\$ 10,000.00	35%	\$ 6,500.00
\$ 2,500.00	35%	\$ 1,625.00
\$ 10,000.00	35%	\$ 6,500.00

\$ 2,500.00	35%	\$ 1,625.00
\$ 8,000.00	35%	\$ 5,200.00
\$ 1,000.00	35%	\$ 650.00
\$ 5,000.00	35%	\$ 3,250.00
\$ 650.00	35%	\$ 422.50
\$ 5,000.00	35%	\$ 3,250.00
\$ 650.00	35%	\$ 422.50
\$ 3,000.00	35%	\$ 1,950.00
\$ 3,000.00	35%	\$ 1,950.00

\$ 20,000.00	35%	\$ 13,000.00
\$ 25,000.00	35%	\$ 16,250.00
\$ 35,000.00	35%	\$ 22,750.00
\$ 1,000.00	35%	\$ 650.00
\$ 2,200.00	35%	\$ 1,430.00
\$ 800.00	35%	\$ 520.00
\$ 50,000.00	35%	\$ 32,500.00
\$ 1,500.00	35%	\$ 975.00
\$ 190.00	35%	\$ 123.50
\$ 360.00	35%	\$ 234.00
\$ 380.00	35%	\$ 247.00
\$ 400.00	35%	\$ 260.00
Custom	-	-

\$ 91,000.00	35%	\$ 59,150.00
\$ 142,350.00	35%	\$ 92,527.50
\$ 25,000.00	35%	\$ 16,250.00
\$ 25,000.00	35%	\$ 16,250.00
\$ 3,500.00	35%	\$ 2,275.00
\$ 7,500.00	35%	\$ 4,875.00
\$ 7,500.00	35%	\$ 4,875.00
\$ 3,000.00	35%	\$ 1,950.00
\$ 88,000.00	35%	\$ 57,200.00
\$ 38,000.00	35%	\$ 24,700.00
\$ 12,000.00	35%	\$ 7,800.00
\$ 3,995.00	35%	\$ 2,596.75
\$ 3,995.00	35%	\$ 2,596.75
\$ 6,500.00	35%	\$ 4,225.00
\$ 1,500.00	35%	\$ 975.00
\$ 16,000.00	35%	\$ 10,400.00
\$ 20,000.00	35%	\$ 13,000.00
\$ 26,000.00	35%	\$ 16,900.00
\$ 5,000.00	35%	\$ 3,250.00
\$ 1,250.00	35%	\$ 812.50
\$ 200.00	35%	\$ 130.00
\$ 200.00	35%	\$ 130.00

\$ 650.00	35%	\$ 422.50
\$ 185,000.00	35%	\$ 120,250.00
\$ 60,000.00	35%	\$ 39,000.00
\$ 58,000.00	35%	\$ 37,700.00
\$ 880,000.00	35%	\$ 572,000.00
\$ 1,040,000.00	35%	\$ 676,000.00
\$ 1,200,000.00	35%	\$ 780,000.00
\$ 3,700.00	35%	\$ 2,405.00
\$ 6,000.00	35%	\$ 3,900.00
\$ 3,500.00	35%	\$ 2,275.00
\$ 10,000.00	35%	\$ 6,500.00
\$ 1,000.00	35%	\$ 650.00
\$ 200,000.00	35%	\$ 130,000.00
\$ 86,000.00	35%	\$ 55,900.00

\$ 91,000.00	35%	\$ 59,150.00
\$ 142,350.00	35%	\$ 92,527.50
\$ 1.00	35%	\$ 0.65
\$ 50,000.00	35%	\$ 32,500.00
\$ 350.00	35%	\$ 227.50
\$ 350.00	35%	\$ 227.50

\$ 200.00	35%	\$ 130.00
\$ 5,000.00	35%	\$ 3,250.00
\$ 5,000.00	35%	\$ 3,250.00
\$ 2,500.00	35%	\$ 1,625.00

\$ 2,000.00	35%	\$ 1,300.00
\$ 2,000.00	35%	\$ 1,300.00
\$ 550.00	35%	\$ 357.50
\$ 550.00	35%	\$ 357.50
\$ 300.00	35%	\$ 195.00
\$ 31,000.00	35%	\$ 20,150.00
\$ 4,250.00	35%	\$ 2,762.50

\$ 4,250.00	35%	\$ 2,762.50
\$ 3,600.00	35%	\$ 2,340.00
\$ 3,300.00	35%	\$ 2,145.00
\$ 108,000.00	35%	\$ 70,200.00
\$ 396,000.00	35%	\$ 257,400.00
\$ 13,000.00	35%	\$ 8,450.00
\$ 1,080.00	35%	\$ 702.00
\$ 1,200.00	35%	\$ 780.00
\$ 600.00	35%	\$ 390.00
\$ 2,500.00	35%	\$ 1,625.00
\$ 13,750.00	35%	\$ 8,937.50
\$ 22,000.00	35%	\$ 14,300.00
\$ 28,000.00	35%	\$ 18,200.00
\$ 250.00	35%	\$ 162.50
\$ 250.00	35%	\$ 162.50
\$ 22,000.00	35%	\$ 14,300.00
\$ 3,000.00	35%	\$ 1,950.00
\$ 28,500.00	35%	\$ 18,525.00
\$ 400.00	35%	\$ 260.00
\$ 250.00	35%	\$ 162.50
\$ 400,000.00	35%	\$ 260,000.00
\$ 200,000.00	35%	\$ 130,000.00
\$ 200,000.00	35%	\$ 130,000.00
\$ 12,600.00	35%	\$ 8,190.00
\$ 1,800.00	35%	\$ 1,170.00
\$ 1,170.00	35%	\$ 760.50
\$ 1,170.00	35%	\$ 760.50
\$ 200.00	35%	\$ 130.00
\$ 200.00	35%	\$ 130.00
\$ 155,000.00	35%	\$ 100,750.00

\$ 145,000.00	35%	\$ 94,250.00
\$ 3,000.00	35%	\$ 1,950.00
\$ 5,000.00	35%	\$ 3,250.00
\$ 2,000.00	35%	\$ 1,300.00
\$ 3,000.00	35%	\$ 1,950.00
\$ 125.00	35%	\$ 81.25
\$ 4,995.00	35%	\$ 3,246.75
\$ 4,995.00	35%	\$ 3,246.75
\$ 4,995.00	35%	\$ 3,246.75
\$ 4,995.00	35%	\$ 3,246.75
\$ 28,000.00	35%	\$ 18,200.00
\$ 16,600.00	35%	\$ 10,790.00
\$ 16,600.00	35%	\$ 10,790.00
\$ 15,340.00	35%	\$ 9,971.00

\$ 15,340.00	35%	\$ 9,971.00
\$ 28,000.00	35%	\$ 18,200.00
\$ 40,000.00	35%	\$ 26,000.00
\$ 28,000.00	35%	\$ 18,200.00
\$ 680.00	35%	\$ 442.00
\$ 800.00	35%	\$ 520.00
\$ 1,000.00	35%	\$ 650.00
\$ 1,750.00	35%	\$ 1,137.50
\$ 255,000.00	35%	\$ 165,750.00
\$ 335,000.00	35%	\$ 217,750.00
\$ 415,000.00	35%	\$ 269,750.00
\$ 255,000.00	35%	\$ 165,750.00
\$ 335,000.00	35%	\$ 217,750.00
\$ 415,000.00	35%	\$ 269,750.00
\$ 4,200.00	35%	\$ 2,730.00

\$ 4,500.00	35%	\$ 2,925.00
\$ 1,850.00	35%	\$ 1,202.50
\$ 1,850.00	35%	\$ 1,202.50
\$ 4,000.00	35%	\$ 2,600.00
\$ 5,000.00	35%	\$ 3,250.00
\$ 1,000.00	35%	\$ 650.00
\$ 1,000.00	35%	\$ 650.00
\$ 325.00	35%	\$ 211.25
\$ 17,000.00	35%	\$ 11,050.00
\$ 17,000.00	35%	\$ 11,050.00
\$ 150.00	35%	\$ 97.50
\$ 12,500.00	35%	\$ 8,125.00
\$ 4,100.00	35%	\$ 2,665.00

\$ 7,300.00	35%	\$ 4,745.00
\$ 60,000.00	35%	\$ 39,000.00
\$ 50,000.00	35%	\$ 32,500.00
\$ 480,000.00	35%	\$ 312,000.00
\$ 560,000.00	35%	\$ 364,000.00

\$ 640,000.00	35%	\$ 416,000.00
\$ 120,000.00	35%	\$ 78,000.00
\$ 240,000.00	35%	\$ 156,000.00
\$ 60,000.00	35%	\$ 39,000.00
\$ 60,000.00	35%	\$ 39,000.00
\$ 60,000.00	35%	\$ 39,000.00
\$ 600.00	35%	\$ 390.00
\$ 900.00	35%	\$ 585.00
\$ 300.00	35%	\$ 195.00
\$ 100.00	35%	\$ 65.00
\$ 500.00	35%	\$ 325.00
\$ 700.00	35%	\$ 455.00
\$ 700.00	35%	\$ 455.00
\$ 225.00	35%	\$ 146.25
\$ 500.00	35%	\$ 325.00
\$ 500.00	35%	\$ 325.00

\$ 225.00	35%	\$ 146.25
\$ 150.00	35%	\$ 97.50
\$ 325.00	35%	\$ 211.25
\$ 500.00	35%	\$ 325.00
\$ 175.00	35%	\$ 113.75
\$ 350.00	35%	\$ 227.50
\$ 525.00	35%	\$ 341.25
\$ 825.00	35%	\$ 536.25
\$ 625.00	35%	\$ 406.25
\$ 625.00	35%	\$ 406.25
\$ 4,300.00	35%	\$ 2,795.00
\$ 7,300.00	35%	\$ 4,745.00

\$ 7,400.00	35%	\$ 4,810.00
\$ 365.00	35%	\$ 237.25
\$ 7,000.00	35%	\$ 4,550.00
\$ 3,000.00	35%	\$ 1,950.00
\$ 5,500.00	35%	\$ 3,575.00
\$ 70,000.00	35%	\$ 45,500.00
\$ 25,000.00	35%	\$ 16,250.00
\$ 100.00	35%	\$ 65.00
\$ 800,000.00	35%	\$ 520,000.00

\$ 960,000.00	35%	\$ 624,000.00
\$ 1,120,000.00	35%	\$ 728,000.00
\$ 960,000.00	35%	\$ 624,000.00
\$ 1,200,000.00	35%	\$ 780,000.00

\$ 1,440,000.00	35%	\$ 936,000.00
\$ 1,080,000.00	35%	\$ 702,000.00
\$ 1,320,000.00	35%	\$ 858,000.00
\$ 1,560,000.00	35%	\$ 1,014,000.00
\$ 1,440,000.00	35%	\$ 936,000.00

\$ 1,760,000.00	35%	\$ 1,144,000.00
\$ 2,080,000.00	35%	\$ 1,352,000.00
\$ 1,600,000.00	35%	\$ 1,040,000.00
\$ 1,920,000.00	35%	\$ 1,248,000.00
\$ 2,240,000.00	35%	\$ 1,456,000.00
\$ 950.00	35%	\$ 617.50
\$ 255,000.00	35%	\$ 165,750.00

\$ 700.00	35%	\$ 455.00
\$ 700.00	35%	\$ 455.00
\$ 4,600.00	35%	\$ 2,990.00
\$ 900.00	35%	\$ 585.00
\$ 1,200.00	35%	\$ 780.00
\$ 14,700.00	35%	\$ 9,555.00
\$ 16,000.00	35%	\$ 10,400.00
\$ 2,500.00	35%	\$ 1,625.00
\$ 1,700.00	35%	\$ 1,105.00
\$ 2,100.00	35%	\$ 1,365.00
\$ 2,500.00	35%	\$ 1,625.00
\$ 5,000.00	35%	\$ 3,250.00
\$ 50,000.00	35%	\$ 32,500.00
\$ 700.00	35%	\$ 455.00
\$ 700.00	35%	\$ 455.00
\$ 225.00	35%	\$ 146.25
\$ 40,000.00	35%	\$ 26,000.00
\$ 42,000.00	35%	\$ 27,300.00

\$ 37,500.00	35%	\$ 24,375.00
\$ 800.00	35%	\$ 520.00
\$ 825.00	35%	\$ 536.25
\$ 900.00	35%	\$ 585.00
\$ 1,500.00	35%	\$ 975.00
\$ 1,650.00	35%	\$ 1,072.50
\$ 1,675.00	35%	\$ 1,088.75
\$ 1,900.00	35%	\$ 1,235.00
\$ 2,600.00	35%	\$ 1,690.00
\$ 2,600.00	35%	\$ 1,690.00
\$ 1,200.00	35%	\$ 780.00

\$ 6,000.00	35%	\$ 3,900.00
\$ 1,400.00	35%	\$ 910.00
\$ 1,000.00	35%	\$ 650.00
\$ 7,750.00	35%	\$ 5,037.50
\$ 9,750.00	35%	\$ 6,337.50
\$ 1,850.00	35%	\$ 1,202.50
\$ 2,000.00	35%	\$ 1,300.00
\$ 533,333.33	35%	\$ 346,666.66
\$ 640,000.00	35%	\$ 416,000.00
\$ 746,666.67	35%	\$ 485,333.34
\$ 345,000.00	35%	\$ 224,250.00
\$ 335,000.00	35%	\$ 217,750.00
\$ 345,000.00	35%	\$ 224,250.00
\$ 335,000.00	35%	\$ 217,750.00
\$ 22,000.00	35%	\$ 14,300.00

\$ 3,800.00	35%	\$ 2,470.00
\$ 1,100.00	35%	\$ 715.00
\$ 450,000.00	35%	\$ 292,500.00
\$ 22,000.00	35%	\$ 14,300.00
\$ 200,000.00	35%	\$ 130,000.00
\$ 240,000.00	35%	\$ 156,000.00
\$ 280,000.00	35%	\$ 182,000.00
\$ 400,000.00	35%	\$ 260,000.00

\$ 480,000.00	35%	\$ 312,000.00
\$ 560,000.00	35%	\$ 364,000.00
\$ 440,000.00	35%	\$ 286,000.00
\$ 520,000.00	35%	\$ 338,000.00
\$ 600,000.00	35%	\$ 390,000.00
\$ 9,000.00	35%	\$ 5,850.00
\$ 3,500.00	35%	\$ 2,275.00
\$ 850.00	35%	\$ 552.50
\$ 850.00	35%	\$ 552.50
\$ 7,000.00	35%	\$ 4,550.00
\$ 20,000.00	35%	\$ 13,000.00

\$ 100.00	35%	\$ 65.00
\$ 550.00	35%	\$ 357.50
\$ 1,000.00	35%	\$ 650.00
\$ 135,000.00	35%	\$ 87,750.00
\$ 22,000.00	35%	\$ 14,300.00
\$ 26,000.00	35%	\$ 16,900.00
\$ 350.00	35%	\$ 227.50
\$ 350.00	35%	\$ 227.50
\$ 119,000.00	35%	\$ 77,350.00
\$ 1,320.00	35%	\$ 858.00
\$ 1,320.00	35%	\$ 858.00
\$ 440.00	35%	\$ 286.00
\$ 185,000.00	35%	\$ 120,250.00
\$ 310,000.00	35%	\$ 201,500.00
\$ 30,000.00	35%	\$ 19,500.00
\$ 10,000.00	35%	\$ 6,500.00
\$ 10,000.00	35%	\$ 6,500.00
\$ 350.00	35%	\$ 227.50
\$ 7,000.00	35%	\$ 4,550.00
\$ 350.00	35%	\$ 227.50
\$ 15,000.00	35%	\$ 9,750.00

\$ 15,000.00	35%	\$ 9,750.00
\$ 70,000.00	35%	\$ 45,500.00
\$ 610,000.00	35%	\$ 396,500.00
\$ 385,000.00	35%	\$ 250,250.00

\$ 335,000.00	35%	\$ 217,750.00
\$ 335,000.00	35%	\$ 217,750.00
\$ 800,000.00	35%	\$ 520,000.00

\$ 960,000.00	35%	\$ 624,000.00
\$ 1,120,000.00	35%	\$ 728,000.00

\$ 1,080,000.00	35%	\$ 702,000.00
\$ 1,320,000.00	35%	\$ 858,000.00

\$ 1,560,000.00	35%	\$ 1,014,000.00
\$ 1,080,000.00	35%	\$ 702,000.00

\$ 1,320,000.00	35%	\$ 858,000.00
\$ 1,560,000.00	35%	\$ 1,014,000.00

\$ 1,440,000.00	35%	\$ 936,000.00
\$ 1,760,000.00	35%	\$ 1,144,000.00

\$ 2,080,000.00	35%	\$ 1,352,000.00
\$ 1,440,000.00	35%	\$ 936,000.00

\$ 1,760,000.00	35%	\$ 1,144,000.00
\$ 2,080,000.00	35%	\$ 1,352,000.00

\$ 1,600,000.00	35%	\$ 1,040,000.00
\$ 1,920,000.00	35%	\$ 1,248,000.00
\$ 2,240,000.00	35%	\$ 1,456,000.00

\$ 1,600,000.00	35%	\$ 1,040,000.00
\$ 1,920,000.00	35%	\$ 1,248,000.00
\$ 2,240,000.00	35%	\$ 1,456,000.00
\$ 172,500.00	35%	\$ 112,125.00

\$ 297,500.00	35%	\$ 193,375.00
\$ 172,000.00	35%	\$ 111,800.00
\$ 226,700.00	35%	\$ 147,355.00
\$ 149,850.00	35%	\$ 97,402.50
\$ 227,900.00	35%	\$ 148,135.00
\$ 150,450.00	35%	\$ 97,792.50

\$ 238,700.00	35%	\$ 155,155.00
\$ 161,850.00	35%	\$ 105,202.50
\$ 239,900.00	35%	\$ 155,935.00
\$ 162,450.00	35%	\$ 105,592.50
\$ 9,000.00	35%	\$ 5,850.00
\$ 10,000.00	35%	\$ 6,500.00
\$ 335.00	35%	\$ 217.75
\$ 335.00	35%	\$ 217.75

\$ 270,000.00	35%	\$ 175,500.00
\$ 350,000.00	35%	\$ 227,500.00
\$ 430,000.00	35%	\$ 279,500.00
\$ 270,000.00	35%	\$ 175,500.00
\$ 350,000.00	35%	\$ 227,500.00

\$ 430,000.00	35%	\$ 279,500.00
\$ 36,450.00	35%	\$ 23,692.50
\$ 2,360.00	35%	\$ 1,534.00
\$ 1,200.00	35%	\$ 780.00
\$ 780.00	35%	\$ 507.00
\$ 720.00	35%	\$ 468.00
\$ 100,000.00	35%	\$ 65,000.00
\$ 100,000.00	35%	\$ 65,000.00
\$ 320,000.00	35%	\$ 208,000.00
\$ 373,333.33	35%	\$ 242,666.66

\$ 426,666.67	35%	\$ 277,333.34
\$ 375,000.00	35%	\$ 243,750.00
\$ 375,000.00	35%	\$ 243,750.00
\$ 66,666.67	35%	\$ 43,333.34
\$ 66,666.67	35%	\$ 43,333.34
\$ 100,000.00	35%	\$ 65,000.00

\$ 100,000.00	35%	\$ 65,000.00
\$ 175,000.00	35%	\$ 113,750.00
\$ 120,000.00	35%	\$ 78,000.00
\$ 533,333.33	35%	\$ 346,666.66
\$ 640,000.00	35%	\$ 416,000.00
\$ 746,666.67	35%	\$ 485,333.34

\$ 400,000.00	35%	\$ 260,000.00
\$ 466,666.67	35%	\$ 303,333.34
\$ 100,000.00	35%	\$ 65,000.00
\$ 133,333.33	35%	\$ 86,666.66
\$ 133,333.33	35%	\$ 86,666.66
\$ 200,000.00	35%	\$ 130,000.00
\$ 200,000.00	35%	\$ 130,000.00
\$ 150,000.00	35%	\$ 97,500.00
\$ 450,000.00	35%	\$ 292,500.00

\$ 550,000.00	35%	\$ 357,500.00
\$ 650,000.00	35%	\$ 422,500.00
\$ 200,000.00	35%	\$ 130,000.00
\$ 300,000.00	35%	\$ 195,000.00
\$ 300,000.00	35%	\$ 195,000.00
\$ 400,000.00	35%	\$ 260,000.00
\$ 400,000.00	35%	\$ 260,000.00
\$ 333,333.33	35%	\$ 216,666.66
\$ 400,000.00	35%	\$ 260,000.00

\$ 466,666.67	35%	\$ 303,333.34
\$ 100,000.00	35%	\$ 65,000.00
\$ 133,333.33	35%	\$ 86,666.66
\$ 133,333.33	35%	\$ 86,666.66
\$ 200,000.00	35%	\$ 130,000.00
\$ 200,000.00	35%	\$ 130,000.00
\$ 200,000.00	35%	\$ 130,000.00
\$ 200,000.00	35%	\$ 130,000.00

\$ 150,000.00	35%	\$ 97,500.00
\$ 450,000.00	35%	\$ 292,500.00
\$ 550,000.00	35%	\$ 357,500.00
\$ 650,000.00	35%	\$ 422,500.00
\$ 400,000.00	35%	\$ 260,000.00
\$ 400,000.00	35%	\$ 260,000.00
\$ 200,000.00	35%	\$ 130,000.00

\$ 518,333.33	35%	\$ 336,916.66
\$ 625,000.00	35%	\$ 406,250.00
\$ 731,666.67	35%	\$ 475,583.34
\$ 518,333.33	35%	\$ 336,916.66

\$ 625,000.00	35%	\$ 406,250.00
\$ 731,666.67	35%	\$ 475,583.34
\$ 785,000.00	35%	\$ 510,250.00
\$ 945,000.00	35%	\$ 614,250.00

\$ 1,105,000.00	35%	\$ 718,250.00
\$ 865,000.00	35%	\$ 562,250.00
\$ 1,025,000.00	35%	\$ 666,250.00
\$ 1,185,000.00	35%	\$ 770,250.00
\$ 865,000.00	35%	\$ 562,250.00
\$ 1,025,000.00	35%	\$ 666,250.00
\$ 1,185,000.00	35%	\$ 770,250.00

\$ 945,000.00	35%	\$ 614,250.00
\$ 1,185,000.00	35%	\$ 770,250.00
\$ 1,425,000.00	35%	\$ 926,250.00
\$ 945,000.00	35%	\$ 614,250.00

\$ 1,185,000.00	35%	\$ 770,250.00
\$ 1,425,000.00	35%	\$ 926,250.00
\$ 1,065,000.00	35%	\$ 692,250.00
\$ 1,305,000.00	35%	\$ 848,250.00

\$ 1,545,000.00	35%	\$ 1,004,250.00
\$ 1,065,000.00	35%	\$ 692,250.00
\$ 1,305,000.00	35%	\$ 848,250.00
\$ 1,545,000.00	35%	\$ 1,004,250.00

\$ 1,425,000.00	35%	\$ 926,250.00
\$ 1,745,000.00	35%	\$ 1,134,250.00
\$ 2,065,000.00	35%	\$ 1,342,250.00
\$ 1,425,000.00	35%	\$ 926,250.00

\$ 1,745,000.00	35%	\$ 1,134,250.00
\$ 2,065,000.00	35%	\$ 1,342,250.00
\$ 1,585,000.00	35%	\$ 1,030,250.00
\$ 1,905,000.00	35%	\$ 1,238,250.00
\$ 2,225,000.00	35%	\$ 1,446,250.00
\$ 1,585,000.00	35%	\$ 1,030,250.00

\$ 1,905,000.00	35%	\$ 1,238,250.00
\$ 2,225,000.00	35%	\$ 1,446,250.00
\$ 533,333.33	35%	\$ 346,666.66
\$ 640,000.00	35%	\$ 416,000.00

\$ 746,666.67	35%	\$ 485,333.34
\$ 533,333.33	35%	\$ 346,666.66

\$ 640,000.00	35%	\$ 416,000.00
\$ 746,666.67	35%	\$ 485,333.34
\$ 880,000.00	35%	\$ 572,000.00

\$ 1,040,000.00	35%	\$ 676,000.00
\$ 1,200,000.00	35%	\$ 780,000.00
\$ 880,000.00	35%	\$ 572,000.00

\$ 1,040,000.00	35%	\$ 676,000.00
\$ 1,200,000.00	35%	\$ 780,000.00
\$ 960,000.00	35%	\$ 624,000.00

\$ 1,200,000.00	35%	\$ 780,000.00
\$ 1,440,000.00	35%	\$ 936,000.00

\$ 960,000.00	35%	\$ 624,000.00
\$ 1,200,000.00	35%	\$ 780,000.00

\$ 1,440,000.00	35%	\$ 936,000.00
\$ 20,000.00	35%	\$ 13,000.00
\$ 30,000.00	35%	\$ 19,500.00
\$ 40,000.00	35%	\$ 26,000.00
\$ 60,000.00	35%	\$ 39,000.00
\$ 90,000.00	35%	\$ 58,500.00
\$ 30,000.00	35%	\$ 19,500.00
\$ 25,000.00	35%	\$ 16,250.00
\$ 50,000.00	35%	\$ 32,500.00
\$ 25,000.00	35%	\$ 16,250.00

\$ 50,000.00	35%	\$ 32,500.00
\$ 100,000.00	35%	\$ 65,000.00
\$ 10,000.00	35%	\$ 6,500.00
\$ 10,000.00	35%	\$ 6,500.00
\$ 30,000.00	35%	\$ 19,500.00
\$ 30,000.00	35%	\$ 19,500.00
\$ 100,000.00	35%	\$ 65,000.00
\$ 50,000.00	35%	\$ 32,500.00
\$ 5,000.00	35%	\$ 3,250.00
\$ 385,000.00	35%	\$ 250,250.00

\$ 610,000.00	35%	\$ 396,500.00
\$ 32,000.00	35%	\$ 20,800.00
\$ 8,000.00	35%	\$ 5,200.00
\$ 180,000.00	35%	\$ 117,000.00
\$ 100,000.00	35%	\$ 65,000.00
\$ 70,000.00	35%	\$ 45,500.00
\$ 30,000.00	35%	\$ 19,500.00
\$ 275.00	35%	\$ 178.75
\$ 275.00	35%	\$ 178.75
\$ 1,980.00	35%	\$ 1,287.00
\$ 1,920.00	35%	\$ 1,248.00
\$ 1,920.00	35%	\$ 1,248.00
\$ 2,800.00	35%	\$ 1,820.00
\$ 2,800.00	35%	\$ 1,820.00
\$ 2,800.00	35%	\$ 1,820.00
\$ 1,360.00	35%	\$ 884.00
\$ 960.00	35%	\$ 624.00
\$ 880.00	35%	\$ 572.00

\$ 175,000.00	35%	\$ 113,750.00
\$ 924,000.00	35%	\$ 600,600.00
\$ 1,164,000.00	35%	\$ 756,600.00
\$ 1,404,000.00	35%	\$ 912,600.00
\$ 333,333.00	35%	\$ 216,666.45
\$ 75,000.00	35%	\$ 48,750.00
\$ 60,000.00	35%	\$ 39,000.00
\$ 50,000.00	35%	\$ 32,500.00
\$ 125,000.00	35%	\$ 81,250.00
\$ 100,000.00	35%	\$ 65,000.00
\$ 85,000.00	35%	\$ 55,250.00
\$ 200,000.00	35%	\$ 130,000.00
\$ 160,000.00	35%	\$ 104,000.00
\$ 135,000.00	35%	\$ 87,750.00

\$ 178,000.00	35%	\$ 115,700.00
\$ 45,000.00	35%	\$ 29,250.00
\$ 27,500.00	35%	\$ 17,875.00
\$ 985,000.00	35%	\$ 640,250.00
\$ 1,185,000.00	35%	\$ 770,250.00
\$ 1,385,000.00	35%	\$ 900,250.00
\$ 2,900.00	35%	\$ 1,885.00
\$ 100,000.00	35%	\$ 65,000.00

\$ 100,000.00	35%	\$ 65,000.00
\$ 10,000.00	35%	\$ 6,500.00
\$ 32,900.00	35%	\$ 21,385.00
\$ 615.00	35%	\$ 399.75
\$ 50,000.00	35%	\$ 32,500.00
\$ 50,000.00	35%	\$ 32,500.00
\$ 450.00	35%	\$ 292.50
\$ 450.00	35%	\$ 292.50
\$ 122,960.00	35%	\$ 79,924.00
\$ 122,960.00	35%	\$ 79,924.00

\$ 600.00	35%	\$ 390.00
\$ 600.00	35%	\$ 390.00
\$ 400.00	35%	\$ 260.00
\$ 300.00	35%	\$ 195.00
\$ 2,200.00	35%	\$ 1,430.00
\$ 2,200.00	35%	\$ 1,430.00
\$ 2,800.00	35%	\$ 1,820.00
\$ 2,800.00	35%	\$ 1,820.00
\$ 3,800.00	35%	\$ 2,470.00

\$ 95,000.00	35%	\$ 61,750.00
\$ 95,000.00	35%	\$ 61,750.00
\$ 800,000.00	35%	\$ 520,000.00
\$ 960,000.00	35%	\$ 624,000.00

\$ 1,120,000.00	35%	\$ 728,000.00
\$ 333,333.33	35%	\$ 216,666.66
\$ 400,000.00	35%	\$ 260,000.00
\$ 466,666.67	35%	\$ 303,333.34
\$ 133,333.33	35%	\$ 86,666.66
\$ 133,333.33	35%	\$ 86,666.66
\$ 200,000.00	35%	\$ 130,000.00
\$ 231,250.00	35%	\$ 150,312.50
\$ 200,000.00	35%	\$ 130,000.00
\$ 281,250.00	35%	\$ 182,812.50
\$ 331,250.00	35%	\$ 215,312.50
\$ 250,000.00	35%	\$ 162,500.00
\$ 220,000.00	35%	\$ 143,000.00
\$ 275.00	35%	\$ 178.75
\$ 500.00	35%	\$ 325.00
\$ 500.00	35%	\$ 325.00

\$ 785,000.00	35%	\$ 510,250.00
\$ 945,000.00	35%	\$ 614,250.00
\$ 1,105,000.00	35%	\$ 718,250.00
\$ 20,995.00	35%	\$ 13,646.75
\$ 2,500.00	35%	\$ 1,625.00
\$ 3,500.00	35%	\$ 2,275.00
\$ 2,000.00	35%	\$ 1,300.00
\$ 28,600.00	35%	\$ 18,590.00
\$ 33,600.00	35%	\$ 21,840.00
\$ 21,900.00	35%	\$ 14,235.00

\$ 26,900.00	35%	\$ 17,485.00
\$ 1,100.00	35%	\$ 715.00
\$ 1,600.00	35%	\$ 1,040.00
\$ 1,320.00	35%	\$ 858.00
\$ 1,800.00	35%	\$ 1,170.00
\$ 2,074.00	35%	\$ 1,348.10
\$ 2,213.00	35%	\$ 1,438.45
\$ 2,768.00	35%	\$ 1,799.20
\$ 2,835.00	35%	\$ 1,842.75
\$ 550.00	35%	\$ 357.50
\$ 5,000.00	35%	\$ 3,250.00
\$ 1,250.00	35%	\$ 812.50
\$ 2,500.00	35%	\$ 1,625.00
\$ 220,000.00	35%	\$ 143,000.00
\$ 2,000.00	35%	\$ 1,300.00
\$ 5,000.00	35%	\$ 3,250.00
\$ 7,500.00	35%	\$ 4,875.00
\$ 10,000.00	35%	\$ 6,500.00
\$ 168,000.00	35%	\$ 109,200.00

\$ 400,000.00	35%	\$ 260,000.00
\$ 466,666.67	35%	\$ 303,333.34
\$ 533,333.33	35%	\$ 346,666.66
\$ 17,500.00	35%	\$ 11,375.00
\$ 85,000.00	35%	\$ 55,250.00
\$ 100,000.00	35%	\$ 65,000.00

\$ 116,666.67	35%	\$ 75,833.34
\$ 133,333.33	35%	\$ 86,666.66
\$ 83,333.33	35%	\$ 54,166.66
\$ 83,333.33	35%	\$ 54,166.66
\$ 100,000.00	35%	\$ 65,000.00
\$ 116,666.67	35%	\$ 75,833.34
\$ 133,333.33	35%	\$ 86,666.66
\$ 50,000.00	35%	\$ 32,500.00
\$ 100,000.00	35%	\$ 65,000.00

\$ 250,000.00	35%	\$ 162,500.00
\$ 300,000.00	35%	\$ 195,000.00
\$ 350,000.00	35%	\$ 227,500.00
\$ 100,000.00	35%	\$ 65,000.00
\$ 100,000.00	35%	\$ 65,000.00
\$ 200,000.00	35%	\$ 130,000.00
\$ 450.00	35%	\$ 292.50
\$ 120.00	35%	\$ 78.00
\$ 22,000.00	35%	\$ 14,300.00
\$ 25,000.00	35%	\$ 16,250.00
\$ 25,000.00	35%	\$ 16,250.00
\$ 7,500.00	35%	\$ 4,875.00
\$ 16,000.00	35%	\$ 10,400.00
\$ 10,000.00	35%	\$ 6,500.00
\$ 25,000.00	35%	\$ 16,250.00

\$ 6,500.00	35%	\$ 4,225.00
\$ 30,000.00	35%	\$ 19,500.00
\$ 30,000.00	35%	\$ 19,500.00
\$ 40,000.00	35%	\$ 26,000.00
\$ 30,000.00	35%	\$ 19,500.00
\$ 40,000.00	35%	\$ 26,000.00
\$ 30,000.00	35%	\$ 19,500.00
\$ 10,000.00	35%	\$ 6,500.00
\$ 8,500.00	35%	\$ 5,525.00
\$ 2,750.00	35%	\$ 1,787.50
\$ 2,750.00	35%	\$ 1,787.50

\$ 3,250.00	35%	\$ 2,112.50
\$ 3,250.00	35%	\$ 2,112.50
\$ 39,000.00	35%	\$ 25,350.00
\$ 45,000.00	35%	\$ 29,250.00
\$ 28,000.00	35%	\$ 18,200.00
\$ 34,000.00	35%	\$ 22,100.00
\$ 300.00	35%	\$ 195.00
\$ 10,000.00	35%	\$ 6,500.00
\$ 50,000.00	35%	\$ 32,500.00
\$ 1,700.00	35%	\$ 1,105.00
\$ 225,000.00	35%	\$ 146,250.00

\$ 275,000.00	35%	\$ 178,750.00
\$ 325,000.00	35%	\$ 211,250.00
\$ 450,000.00	35%	\$ 292,500.00
\$ 550,000.00	35%	\$ 357,500.00
\$ 650,000.00	35%	\$ 422,500.00
\$ 518,333.33	35%	\$ 336,916.66

\$ 625,000.00	35%	\$ 406,250.00
\$ 731,666.67	35%	\$ 475,583.34
\$ 518,333.33	35%	\$ 336,916.66
\$ 625,000.00	35%	\$ 406,250.00
\$ 731,666.67	35%	\$ 475,583.34

\$ 785,000.00	35%	\$ 510,250.00
\$ 945,000.00	35%	\$ 614,250.00
\$ 1,105,000.00	35%	\$ 718,250.00
\$ 785,000.00	35%	\$ 510,250.00
\$ 945,000.00	35%	\$ 614,250.00

\$ 1,105,000.00	35%	\$ 718,250.00
\$ 985,000.00	35%	\$ 640,250.00
\$ 1,185,000.00	35%	\$ 770,250.00
\$ 1,385,000.00	35%	\$ 900,250.00
\$ 985,000.00	35%	\$ 640,250.00
\$ 1,185,000.00	35%	\$ 770,250.00
\$ 1,385,000.00	35%	\$ 900,250.00
\$ 175.00	35%	\$ 113.75

\$ 450.00	35%	\$ 292.50
\$ 450.00	35%	\$ 292.50
\$ 550.00	35%	\$ 357.50
\$ 62,500.00	35%	\$ 40,625.00
\$ 62,500.00	35%	\$ 40,625.00
\$ 281,250.00	35%	\$ 182,812.50
\$ 343,750.00	35%	\$ 223,437.50
\$ 406,250.00	35%	\$ 264,062.50
\$ 125,000.00	35%	\$ 81,250.00
\$ 125,000.00	35%	\$ 81,250.00
\$ 333,333.33	35%	\$ 216,666.66
\$ 400,000.00	35%	\$ 260,000.00
\$ 466,666.67	35%	\$ 303,333.34

\$ 133,333.33	35%	\$ 86,666.66
\$ 200,000.00	35%	\$ 130,000.00
\$ 250,000.00	35%	\$ 162,500.00
\$ 250,000.00	35%	\$ 162,500.00
\$ 250,000.00	35%	\$ 162,500.00
\$ 300,000.00	35%	\$ 195,000.00
\$ 350,000.00	35%	\$ 227,500.00
\$ 250,000.00	35%	\$ 162,500.00
\$ 250,000.00	35%	\$ 162,500.00
\$ 30,800.00	35%	\$ 20,020.00
\$ 31,240.00	35%	\$ 20,306.00

\$ 24,100.00	35%	\$ 15,665.00
\$ 24,540.00	35%	\$ 15,951.00
\$ 170,000.00	35%	\$ 110,500.00
\$ 170,000.00	35%	\$ 110,500.00
\$ 125.00	35%	\$ 81.25
\$ 20,000.00	35%	\$ 13,000.00
\$ 500,000.00	35%	\$ 325,000.00
\$ 200,000.00	35%	\$ 130,000.00
\$ 100,000.00	35%	\$ 65,000.00
\$ 12,797.00	35%	\$ 8,318.05
\$ 22,415.00	35%	\$ 14,569.75
\$ 29,789.00	35%	\$ 19,362.85
\$ 813.00	35%	\$ 528.45
\$ 813.00	35%	\$ 528.45
\$ 1,778.00	35%	\$ 1,155.70
\$ 1,778.00	35%	\$ 1,155.70
\$ 181.00	35%	\$ 117.65
\$ 181.00	35%	\$ 117.65
\$ 16,000.00	35%	\$ 10,400.00
\$ 20,000.00	35%	\$ 13,000.00
\$ 456.00	35%	\$ 296.40
\$ 300.00	35%	\$ 195.00
\$ 10,000.00	35%	\$ 6,500.00
\$ 11,500.00	35%	\$ 7,475.00
\$ 10,000.00	35%	\$ 6,500.00

\$ 11,500.00	35%	\$ 7,475.00
\$ 3,000.00	35%	\$ 1,950.00
\$ 3,500.00	35%	\$ 2,275.00
\$ 3,000.00	35%	\$ 1,950.00
\$ 3,500.00	35%	\$ 2,275.00
\$ 1,000.00	35%	\$ 650.00
\$ 1,500.00	35%	\$ 975.00
\$ 1,000.00	35%	\$ 650.00
\$ 1,500.00	35%	\$ 975.00
\$ 533,333.33	35%	\$ 346,666.66

\$ 640,000.00	35%	\$ 416,000.00
\$ 746,666.67	35%	\$ 485,333.34
\$ 533,333.33	35%	\$ 346,666.66

\$ 640,000.00	35%	\$ 416,000.00
\$ 746,666.67	35%	\$ 485,333.34
\$ 800,000.00	35%	\$ 520,000.00

\$ 960,000.00	35%	\$ 624,000.00
\$ 1,120,000.00	35%	\$ 728,000.00
\$ 800,000.00	35%	\$ 520,000.00

\$ 960,000.00	35%	\$ 624,000.00
\$ 1,120,000.00	35%	\$ 728,000.00
\$ 1,000,000.00	35%	\$ 650,000.00

\$ 1,200,000.00	35%	\$ 780,000.00
\$ 1,400,000.00	35%	\$ 910,000.00
\$ 1,000,000.00	35%	\$ 650,000.00

\$ 1,200,000.00	35%	\$ 780,000.00
\$ 1,400,000.00	35%	\$ 910,000.00
\$ 10,000.00	35%	\$ 6,500.00
\$ 430,700.00	35%	\$ 279,955.00
\$ 257,850.00	35%	\$ 167,602.50
\$ 431,900.00	35%	\$ 280,735.00
\$ 258,450.00	35%	\$ 167,992.50
\$ 1,120.00	35%	\$ 728.00

\$ 1,360.00	35%	\$ 884.00
\$ 120,000.00	35%	\$ 78,000.00
\$ 16,900.00	35%	\$ 10,985.00
\$ 16,900.00	35%	\$ 10,985.00
\$ 800,000.00	35%	\$ 520,000.00
\$ 960,000.00	35%	\$ 624,000.00

\$ 1,120,000.00	35%	\$ 728,000.00
\$ 3,500.00	35%	\$ 2,275.00
\$ 181.00	35%	\$ 117.65
\$ 181.00	35%	\$ 117.65
\$ 181.00	35%	\$ 117.65
\$ 1,100,000.00	35%	\$ 715,000.00
\$ 500,000.00	35%	\$ 325,000.00
\$ 4,000.00	35%	\$ 2,600.00
\$ 450,000.00	35%	\$ 292,500.00
\$ 2,000.00	35%	\$ 1,300.00
\$ 3,000.00	35%	\$ 1,950.00
\$ 3,600.00	35%	\$ 2,340.00
\$ 3,600.00	35%	\$ 2,340.00

\$ 10,000.00	35%	\$ 6,500.00
\$ 10,000.00	35%	\$ 6,500.00
\$ 11,000.00	35%	\$ 7,150.00
\$ 11,000.00	35%	\$ 7,150.00
\$ 15,000.00	35%	\$ 9,750.00

\$ 15,000.00	35%	\$ 9,750.00
\$ 15,000.00	35%	\$ 9,750.00
\$ 15,000.00	35%	\$ 9,750.00
\$ 22,000.00	35%	\$ 14,300.00
\$ 22,000.00	35%	\$ 14,300.00
\$ 22,000.00	35%	\$ 14,300.00
\$ 22,000.00	35%	\$ 14,300.00
\$ 25,000.00	35%	\$ 16,250.00
\$ 25,000.00	35%	\$ 16,250.00
\$ 25,000.00	35%	\$ 16,250.00
\$ 25,000.00	35%	\$ 16,250.00
\$ 10,000.00	35%	\$ 6,500.00
\$ 10,000.00	35%	\$ 6,500.00
\$ 400,000.00	35%	\$ 260,000.00
\$ 400,000.00	35%	\$ 260,000.00
\$ 7,500.00	35%	\$ 4,875.00
\$ 250.00	35%	\$ 162.50
\$ 3,250.00	35%	\$ 2,112.50
\$ 181.00	35%	\$ 117.65
\$ 615.00	35%	\$ 399.75

\$ 442,750.00	35%	\$ 287,787.50
\$ 442,750.00	35%	\$ 287,787.50
\$ 385,250.00	35%	\$ 250,412.50

\$ 385,250.00	35%	\$ 250,412.50
\$ 701,500.00	35%	\$ 455,975.00
\$ 701,500.00	35%	\$ 455,975.00

\$ 14,153.00	35%	\$ 9,199.45
\$ 14,153.00	35%	\$ 9,199.45
\$ 15,118.00	35%	\$ 9,826.70
\$ 15,118.00	35%	\$ 9,826.70
\$ 24,309.00	35%	\$ 15,800.85
\$ 24,309.00	35%	\$ 15,800.85
\$ 24,939.00	35%	\$ 16,210.35
\$ 24,939.00	35%	\$ 16,210.35
\$ 31,864.00	35%	\$ 20,711.60
\$ 31,864.00	35%	\$ 20,711.60

\$ 32,494.00	35%	\$ 21,121.10
\$ 32,494.00	35%	\$ 21,121.10
\$ 1,943.00	35%	\$ 1,262.95
\$ 1,943.00	35%	\$ 1,262.95
\$ 1,562.50	35%	\$ 1,015.63
\$ 1,562.50	35%	\$ 1,015.63
\$ 278.35	35%	\$ 180.93
\$ 278.35	35%	\$ 180.93
\$ 2,347.24	35%	\$ 1,525.71
\$ 2,347.24	35%	\$ 1,525.71
\$ 2,028.32	35%	\$ 1,318.41
\$ 2,028.32	35%	\$ 1,318.41
\$ 127.50	35%	\$ 82.88
\$ 153.13	35%	\$ 99.53
\$ 10,500.00	35%	\$ 6,825.00
\$ 250.00	35%	\$ 162.50
\$ 1,500.00	35%	\$ 975.00
\$ 40,000.00	35%	\$ 26,000.00
\$ 50,000.00	35%	\$ 32,500.00
Custom	-	-
Custom	-	-
\$ 4,000.00	35%	\$ 2,600.00
\$ 3,600.00	35%	\$ 2,340.00
\$ 1,200.00	35%	\$ 780.00
\$ 550.00	35%	\$ 357.50
\$ 800.00	35%	\$ 520.00

\$ 20,000.00	35%	\$ 13,000.00
\$ 32,500.00	35%	\$ 21,125.00
\$ 90,000.00	35%	\$ 58,500.00
\$ 115,000.00	35%	\$ 74,750.00
\$ 135,000.00	35%	\$ 87,750.00
\$ 45,000.00	35%	\$ 29,250.00
\$ 41,200.00	35%	\$ 26,780.00
\$ 41,640.00	35%	\$ 27,066.00
\$ 30,200.00	35%	\$ 19,630.00
\$ 30,640.00	35%	\$ 19,916.00
\$ 550.00	35%	\$ 357.50
\$ 3,000.00	35%	\$ 1,950.00
\$ 70,000.00	35%	\$ 45,500.00
\$ 7,000.00	35%	\$ 4,550.00
\$ 12,000.00	35%	\$ 7,800.00
\$ 30,000.00	35%	\$ 19,500.00
\$ 35,000.00	35%	\$ 22,750.00
\$ 3,000.00	35%	\$ 1,950.00

\$ 1,000.00	35%	\$ 650.00
\$ 70,000.00	35%	\$ 45,500.00
\$ 70,000.00	35%	\$ 45,500.00
\$ 50,000.00	35%	\$ 32,500.00
\$ 50,000.00	35%	\$ 32,500.00
\$ 45,000.00	35%	\$ 29,250.00
\$ 45,000.00	35%	\$ 29,250.00
\$ 50,000.00	35%	\$ 32,500.00
\$ 50,000.00	35%	\$ 32,500.00
\$ 50,000.00	35%	\$ 32,500.00
\$ 50,000.00	35%	\$ 32,500.00
\$ 58,000.00	35%	\$ 37,700.00
\$ 58,000.00	35%	\$ 37,700.00
\$ 100,000.00	35%	\$ 65,000.00
\$ 5,000.00	35%	\$ 3,250.00
\$ 5,000.00	35%	\$ 3,250.00
\$ 4,000.00	35%	\$ 2,600.00
\$ 2,000.00	35%	\$ 1,300.00
\$ 4,000.00	35%	\$ 2,600.00
\$ 2,500.00	35%	\$ 1,625.00
\$ 2,500.00	35%	\$ 1,625.00
\$ 2,500.00	35%	\$ 1,625.00
\$ 45,000.00	35%	\$ 29,250.00
\$ 45,000.00	35%	\$ 29,250.00

\$ 2,500.00	35%	\$ 1,625.00
\$ 1,500.00	35%	\$ 975.00
\$ 1,000.00	35%	\$ 650.00
\$ 55,000.00	35%	\$ 35,750.00
\$ 25,500.00	35%	\$ 16,575.00
\$ 5,400.00	35%	\$ 3,510.00
\$ 4,000.00	35%	\$ 2,600.00
\$ 415,000.00	35%	\$ 269,750.00
\$ 46,600.00	35%	\$ 30,290.00
\$ 36,200.00	35%	\$ 23,530.00
\$ 2,200.00	35%	\$ 1,430.00
\$ 2,200.00	35%	\$ 1,430.00
\$ 650.00	35%	\$ 422.50
\$ 4,000.00	35%	\$ 2,600.00
\$ 4,250.00	35%	\$ 2,762.50
\$ 32,300.00	35%	\$ 20,995.00
\$ 560,000.00	35%	\$ 364,000.00
\$ 5,000.00	35%	\$ 3,250.00

\$ 3,900.00	35%	\$ 2,535.00
\$ 30,000.00	35%	\$ 19,500.00
\$ 590.00	35%	\$ 383.50
\$ 9,500.00	35%	\$ 6,175.00
\$ 13,350.00	35%	\$ 8,677.50
\$ 2,550.00	35%	\$ 1,657.50
\$ 2,000.00	35%	\$ 1,300.00
\$ 45,000.00	35%	\$ 29,250.00
\$ 95,000.00	35%	\$ 61,750.00
\$ 88,000.00	35%	\$ 57,200.00
\$ 35.00	35%	\$ 22.75
\$ 350.00	35%	\$ 227.50
\$ 875.00	35%	\$ 568.75
\$ 1,400.00	35%	\$ 910.00
\$ 3,500.00	35%	\$ 2,275.00
\$ 14,000.00	35%	\$ 9,100.00
\$ 20.00	35%	\$ 13.00

\$ 200.00	35%	\$ 130.00
\$ 500.00	35%	\$ 325.00
\$ 800.00	35%	\$ 520.00
\$ 2,000.00	35%	\$ 1,300.00
\$ 8,000.00	35%	\$ 5,200.00
\$ 28,000.00	35%	\$ 18,200.00
\$ 6,500.00	35%	\$ 4,225.00
\$ 22,000.00	35%	\$ 14,300.00
\$ 4,500.00	35%	\$ 2,925.00
\$ 1,600.00	35%	\$ 1,040.00
\$ 88,000.00	35%	\$ 57,200.00
\$ 516,000.00	35%	\$ 335,400.00
\$ 518,000.00	35%	\$ 336,700.00
\$ 466,000.00	35%	\$ 302,900.00
\$ 468,000.00	35%	\$ 304,200.00
\$ 6,950.00	35%	\$ 4,517.50
\$ 7,550.00	35%	\$ 4,907.50
\$ 1,889.00	35%	\$ 1,227.85
\$ 3,132.00	35%	\$ 2,035.80
\$ 3,962.00	35%	\$ 2,575.30
\$ 13,500.00	35%	\$ 8,775.00

\$ 15,000.00	35%	\$ 9,750.00
\$ 20,000.00	35%	\$ 13,000.00
\$ 21,000.00	35%	\$ 13,650.00
\$ 6,000.00	35%	\$ 3,900.00
\$ 300.00	35%	\$ 195.00
\$ 300.00	35%	\$ 195.00
\$ 300.00	35%	\$ 195.00
\$ 519,200.00	35%	\$ 337,480.00
\$ 519,200.00	35%	\$ 337,480.00
\$ 469,200.00	35%	\$ 304,980.00
\$ 469,200.00	35%	\$ 304,980.00
\$ 1,119,200.00	35%	\$ 727,480.00
\$ 1,124,000.00	35%	\$ 730,600.00
\$ 864.00	35%	\$ 561.60
\$ 864.00	35%	\$ 561.60
\$ 1,496.00	35%	\$ 972.40
\$ 1,496.00	35%	\$ 972.40

\$ 163.20	35%	\$ 106.08
\$ 163.20	35%	\$ 106.08
\$ 163.20	35%	\$ 106.08
\$ 163.20	35%	\$ 106.08
\$ 312.00	35%	\$ 202.80
\$ 50,000.00	35%	\$ 32,500.00
\$ 50,000.00	35%	\$ 32,500.00
\$ 50,000.00	35%	\$ 32,500.00
\$ 50,000.00	35%	\$ 32,500.00
\$ 40,000.00	35%	\$ 26,000.00
\$ 1,042.00	35%	\$ 677.30
\$ 1,028.00	35%	\$ 668.20
\$ 1,947.00	35%	\$ 1,265.55
\$ 1,947.00	35%	\$ 1,265.55
\$ 1,953.00	35%	\$ 1,269.45
\$ 1,953.00	35%	\$ 1,269.45
\$ 2,254.32	35%	\$ 1,465.31
\$ 2,254.32	35%	\$ 1,465.31
\$ 200.00	35%	\$ 130.00
\$ 200.00	35%	\$ 130.00
\$ 3,637.00	35%	\$ 2,364.05
\$ 2,859.00	35%	\$ 1,858.35
\$ 737.00	35%	\$ 479.05
\$ 893.00	35%	\$ 580.45
\$ 100.00	35%	\$ 65.00
\$ 250.00	35%	\$ 162.50
\$ 75,000.00	35%	\$ 48,750.00
\$ 25,000.00	35%	\$ 16,250.00
\$ 50,000.00	35%	\$ 32,500.00
\$ 114.00	35%	\$ 74.10
\$ 700.00	35%	\$ 455.00

\$ 300,000.00	35%	\$ 195,000.00
\$ 120,000.00	35%	\$ 78,000.00
\$ 500.00	35%	\$ 325.00
\$ 225.00	35%	\$ 146.25
\$ 100.00	35%	\$ 65.00
\$ 45.00	35%	\$ 29.25
\$ 200.00	35%	\$ 130.00
\$ 90.00	35%	\$ 58.50
\$ 40.00	35%	\$ 26.00

\$ 18.00	35%	\$ 11.70
\$ 50,000.00	35%	\$ 32,500.00
\$ 50,000.00	35%	\$ 32,500.00
\$ 375.00	35%	\$ 243.75
\$ 169.00	35%	\$ 109.85
\$ 75.00	35%	\$ 48.75
\$ 34.00	35%	\$ 22.10
\$ 150.00	35%	\$ 97.50
\$ 68.00	35%	\$ 44.20

\$ 30.00	35%	\$ 19.50
\$ 14.00	35%	\$ 9.10
\$ 375.00	35%	\$ 243.75
\$ 169.00	35%	\$ 109.85
\$ 75.00	35%	\$ 48.75
\$ 34.00	35%	\$ 22.10
\$ 150.00	35%	\$ 97.50
\$ 68.00	35%	\$ 44.20

\$ 30.00	35%	\$ 19.50
\$ 14.00	35%	\$ 9.10
\$ 100.00	35%	\$ 65.00
\$ 45.00	35%	\$ 29.25
\$ 20.00	35%	\$ 13.00
\$ 9.00	35%	\$ 5.85
\$ 40.00	35%	\$ 26.00
\$ 18.00	35%	\$ 11.70

\$ 8.00	35%	\$ 5.20
\$ 4.00	35%	\$ 2.60
\$ 1.40	35%	\$ 0.91
\$ 1.23	35%	\$ 0.80
\$ 0.88	35%	\$ 0.57
\$ 0.53	35%	\$ 0.34
\$ 0.56	35%	\$ 0.36
\$ 0.49	35%	\$ 0.32

\$ 0.35	35%	\$ 0.23
\$ 0.21	35%	\$ 0.14
\$ 1.40	35%	\$ 0.91
\$ 1.23	35%	\$ 0.80
\$ 0.88	35%	\$ 0.57
\$ 0.53	35%	\$ 0.34
\$ 0.56	35%	\$ 0.36

\$ 0.49	35%	\$ 0.32
\$ 0.35	35%	\$ 0.23
\$ 0.21	35%	\$ 0.14
\$ 0.28	35%	\$ 0.18
\$ 0.25	35%	\$ 0.16
\$ 0.18	35%	\$ 0.12
\$ 0.11	35%	\$ 0.07

\$ 0.11	35%	\$ 0.07
\$ 0.10	35%	\$ 0.07
\$ 0.07	35%	\$ 0.05
\$ 0.04	35%	\$ 0.03
\$ 100.00	35%	\$ 65.00
\$ 45.00	35%	\$ 29.25
\$ 20.00	35%	\$ 13.00
\$ 9.00	35%	\$ 5.85

\$ 40.00	35%	\$ 26.00
\$ 18.00	35%	\$ 11.70
\$ 8.00	35%	\$ 5.20
\$ 4.00	35%	\$ 2.60
\$ 25,000.00	35%	\$ 16,250.00
\$ 750.00	35%	\$ 487.50
\$ 600.00	35%	\$ 390.00
\$ 1,000.00	35%	\$ 650.00
\$ 3,000.00	35%	\$ 1,950.00
\$ 35,000.00	35%	\$ 22,750.00
\$ 45,000.00	35%	\$ 29,250.00
\$ 45,000.00	35%	\$ 29,250.00
\$ 75,000.00	35%	\$ 48,750.00
\$ 10,000.00	35%	\$ 6,500.00

\$ 30,000.00	35%	\$ 19,500.00
\$ 7,000.00	35%	\$ 4,550.00
\$ 30,000.00	35%	\$ 19,500.00
\$ 6,500.00	35%	\$ 4,225.00
\$ 6,500.00	35%	\$ 4,225.00
\$ 720.00	35%	\$ 468.00
\$ 880.00	35%	\$ 572.00
\$ 2,800.00	35%	\$ 1,820.00
\$ 1,190.00	35%	\$ 773.50
\$ 403,600.00	35%	\$ 262,340.00
\$ 585,200.00	35%	\$ 380,380.00
\$ 402,600.00	35%	\$ 261,690.00

\$ 584,200.00	35%	\$ 379,730.00
\$ 330,550.00	35%	\$ 214,857.50
\$ 329,800.00	35%	\$ 214,370.00
\$ 145,000.00	35%	\$ 94,250.00
\$ 120,000.00	35%	\$ 78,000.00
\$ 335,000.00	35%	\$ 217,750.00
\$ 170,000.00	35%	\$ 110,500.00
\$ 60,000.00	35%	\$ 39,000.00
\$ 200,000.00	35%	\$ 130,000.00
\$ 80,000.00	35%	\$ 52,000.00

\$ 20,000.00	35%	\$ 13,000.00
\$ 8,000.00	35%	\$ 5,200.00
\$ 20,000.00	35%	\$ 13,000.00
\$ 8,000.00	35%	\$ 5,200.00
\$ 20,000.00	35%	\$ 13,000.00
\$ 8,000.00	35%	\$ 5,200.00
\$ 0.28	35%	\$ 0.18
\$ 0.25	35%	\$ 0.16
\$ 0.18	35%	\$ 0.12
\$ 0.11	35%	\$ 0.07

\$ 0.11	35%	\$ 0.07
\$ 0.10	35%	\$ 0.07
\$ 0.07	35%	\$ 0.05
\$ 0.04	35%	\$ 0.03
Custom	-	-
\$ 950.00	35%	\$ 617.50
\$ 1,400.00	35%	\$ 910.00
\$ 2,300.00	35%	\$ 1,495.00
\$ 950.00	35%	\$ 617.50
\$ 1,400.00	35%	\$ 910.00
\$ 2,300.00	35%	\$ 1,495.00
\$ 950.00	35%	\$ 617.50
\$ 1,400.00	35%	\$ 910.00
\$ 2,300.00	35%	\$ 1,495.00
\$ 440.00	35%	\$ 286.00
\$ 900.00	35%	\$ 585.00
\$ 220.00	35%	\$ 143.00
\$ 700.00	35%	\$ 455.00
\$ 200.00	35%	\$ 130.00
\$ 3,500.00	35%	\$ 2,275.00
\$ 1,300.00	35%	\$ 845.00

\$ 1,100.00	35%	\$ 715.00
\$ 3,800.00	35%	\$ 2,470.00
\$ 4,500.00	35%	\$ 2,925.00
\$ 100,000.00	35%	\$ 65,000.00
\$ 10,000.00	35%	\$ 6,500.00
\$ 10,000.00	35%	\$ 6,500.00
\$ 10,000.00	35%	\$ 6,500.00
\$ 10,000.00	35%	\$ 6,500.00
\$ 25,000.00	35%	\$ 16,250.00
\$ 25,000.00	35%	\$ 16,250.00
\$ 25,000.00	35%	\$ 16,250.00
\$ 25,000.00	35%	\$ 16,250.00
\$ 40,000.00	35%	\$ 26,000.00
\$ 40,000.00	35%	\$ 26,000.00
\$ 40,000.00	35%	\$ 26,000.00
\$ 40,000.00	35%	\$ 26,000.00
\$ 60,000.00	35%	\$ 39,000.00
\$ 60,000.00	35%	\$ 39,000.00
\$ 60,000.00	35%	\$ 39,000.00
\$ 60,000.00	35%	\$ 39,000.00
\$ 2,000.00	35%	\$ 1,300.00
\$ 5,000.00	35%	\$ 3,250.00
\$ 7,500.00	35%	\$ 4,875.00
\$ 8,750.00	35%	\$ 5,687.50
\$ 10,000.00	35%	\$ 6,500.00
\$ 15,000.00	35%	\$ 9,750.00
\$ 40,000.00	35%	\$ 26,000.00
\$ 8,750.00	35%	\$ 5,687.50
\$ 15,000.00	35%	\$ 9,750.00

\$ 40,000.00	35%	\$ 26,000.00
\$ 60,000.00	35%	\$ 39,000.00
\$ 95.00	35%	\$ 61.75
\$ 95.00	35%	\$ 61.75
\$ 95.00	35%	\$ 61.75
\$ 600.00	35%	\$ 390.00
\$ 500.00	35%	\$ 325.00
\$ 19,350.00	35%	\$ 12,577.50
\$ 19,350.00	35%	\$ 12,577.50
\$ 19,810.00	35%	\$ 12,876.50
\$ 19,810.00	35%	\$ 12,876.50
\$ 20,910.00	35%	\$ 13,591.50
\$ 20,910.00	35%	\$ 13,591.50
\$ 21,670.00	35%	\$ 14,085.50
\$ 21,670.00	35%	\$ 14,085.50
\$ 43,310.00	35%	\$ 28,151.50

\$ 43,310.00	35%	\$ 28,151.50
\$ 45,120.00	35%	\$ 29,328.00
\$ 45,120.00	35%	\$ 29,328.00
\$ 98,200.00	35%	\$ 63,830.00
\$ 98,200.00	35%	\$ 63,830.00
\$ 101,060.00	35%	\$ 65,689.00
\$ 101,060.00	35%	\$ 65,689.00
\$ 132,790.00	35%	\$ 86,313.50
\$ 132,800.00	35%	\$ 86,320.00
\$ 135,840.00	35%	\$ 88,296.00
\$ 135,680.00	35%	\$ 88,192.00
\$ 49,700.00	35%	\$ 32,305.00

\$ 50,420.00	35%	\$ 32,773.00
\$ 50,900.00	35%	\$ 33,085.00
\$ 51,820.00	35%	\$ 33,683.00
\$ 90,530.00	35%	\$ 58,844.50
\$ 92,100.00	35%	\$ 59,865.00
\$ 1,600.00	35%	\$ 1,040.00
Custom	-	-
Custom	-	-
Custom	-	-
Custom	-	-
Custom	-	-

[illegible]

Custom	-	-
Custom	-	-
\$ 99,900.00	35%	\$ 64,935.00
\$ 59,940.00	35%	\$ 38,961.00
\$ 35,964.00	35%	\$ 23,376.60
\$ 39,960.00	35%	\$ 25,974.00

\$ 23,976.00	35%	\$ 15,584.40
\$ 14,386.00	35%	\$ 9,350.90
Custom	-	-
Custom	-	-
Custom	-	-
Custom	-	-

[illegible]

Custom	-	-
Custom	-	-



CODE / PN	PRODUCT / DESCRIPTION
1AB017500057	BREAKER, 1A
1AB017500059	BREAKER 4A
1AB017500061	BREAKER, 10A
1AB017500062	BREAKER 15A
1AB017500063	BREAKER 40A
1AB017500064	BREAKER, 30A
1AB017500065	BREAKER, 2A
1AB017500066	BREAKER, 25A
1AB017500067	BREAKER, 20A
1AB017500070	CIRCUIT BREAKER 100A
1AB017500072	BREAKER, 50A
1AB017500073	BREAKER, 70A
1AB017500077	BREAKER, 80A
1AB017500078	BREAKER, 63A
1AB017500080	BREAKER, 60A
1AB017500081	BREAKER, 35A
1AB155630001	SHORT JUMPER DUPLEX LC (140/155MM)
1AB156220001	SLOW EVOA SFP
1AB162710003	CIRCUIT BREAKER 4A 72VDC
1AB162710005	CIRCUIT BREAKER 10A 72VDC
1AB162710007	CIRCUIT BREAKER 20A 72VDC
1AB162710008	CIRCUIT BREAKER 25A 72VDC
1AB162710009	CIRCUIT BREAKER 30A 72VDC
1AB162710015	CIRCUIT BREAKER 40A 72VCC
1AB187280040	OPTO TRX SFP 1.25GBE LX/LX10 DDM -40/+85
1AB215120038	DUPLEX JUMPER 3.5M - NAR SM FOR INTERNAL
1AB215120039	PROTECTION Y-CABLE SPLITTER (SMF) - HORI
1AB215120040	PROTECTION Y-CABLE SPLITTER (SMF) - VERT
1AB215120042	PROTECTION Y-CABLE SPLITTER (MMF 50/125
1AB215120057	SIMPLEX JUMPER, 2.35M NAR SM, LD NO DCM
1AB215120058	DUPLEX JUMPER (3.5M) - NAR - MM (50UM) F
1AB215120075	SHORT JUMPER LC (230MM)
1AB215120076	SHORT JUMPER LC (155MM)
1AB215120077	SIMPLEX JUMPER 3.5M - NAR
1AB215120079	DUPLEX JUMPER (15M) - NAR - SM
1AB215120080	DUPLEX JUMPER (10M) - NAR - SM
1AB215120081	DUPLEX JUMPER (7M) - NAR - SM
1AB215120085	SHORT JUMPER LC (120MM)
1AB215120086	SHORT JUMPER LC (215MM)
1AB215120087	SHORT JUMPER LC (185MM)
1AB215120091	SHORT JUMPER LC (165MM)
1AB215120093	SHORT JUMPER DUPLEX LC (120/135MM)
1AB352700004	CA-AC POWER SUPPLY-NORTH AMERICA (LZSH/-
1AB352700008	CA-AC PWR SUPPLY CABLE NAR (PSS-16II)
1AB352700012	CA-AC PWR SUPPLY C19-C20 16A(PSS-16II)
1AB352700013	CA-AC PWR SUPPLY C13-C14 (PSS-8)
1AB359780002	EL TRX SFP 10/100/1000BASE-T -40/+85

1AB359780003	EL TRX SFP 10/100/1000BASE-T -40/+85 B
1AB371250002	2DB ATTENUATOR
1AB371250003	6DB ATTENUATOR
1AB371250004	12DB ATTENUATOR
1AB371250005	14DB ATTENUATOR
1AB371250006	1DB ATTENUATOR
1AB371250007	3DB ATTENUATOR
1AB371250008	5DB ATTENUATOR
1AB371250009	7DB ATTENUATOR
1AB371250010	9DB ATTENUATOR
1AB373110001	OE-TRX SFP CWDM PIN CH51 B_SFPMULTIRATE
1AB373120001	OE-TRX SFP CWDM APD CH51 B_SFPMULTIRATE
1AB373120002	OC3/STM1 APD ULH SFP 1510NM
1AB375380003	XFP S-64.2B/10GBE BASE-E
1AB375380004	XFP P1L1-2D2/10GBE BASE-Z
1AB375380007	XFP I-64.1/10GBE BASE-L -40/+85
1AB375380008	XFP P1L1-2D2/10GBE BASE-Z -5/+85
1AB375380009	XFP I-64.1/10GBE BASE-L/10G FC/8.5G FC -
1AB376350001	SFP S-1.1 -40/+85
1AB376350003	SFP L-1.2 -40/+85
1AB376360001	SFP S-4.1 -40/+85
1AB376360002	SFP L-4.1 -40/+85
1AB376360003	SFP L-4.2 -40/+85
1AB376370001	SFP I-16.1 -40/+85
1AB376370002	SFP S-16.1 -5/+85
1AB376370003	SFP L-16.1 -5/+85
1AB376370004	SFP L-16.2 -5/+85
1AB376370005	SFP S-16.1 ANY RATE -40/+85
1AB376370007	SFP L-16.1 -40/+85 HARDENED
1AB376370008	SFP L-16.2 -40/+85
1AB376720001	SFP GBE SX -40/+85
1AB376720002	SFP GBE LX/LX10 -40/+85
1AB376720003	SFP GBE ZX -40/+85
1AB377200009	SFP CWDM LH 1471 NM -40/+85
1AB377200011	SFP CWDM LH 1511 NM -40/+85
1AB377200013	SFP CWDM LH 1551 NM -40/+85
1AB377200015	SFP CWDM LH 1591 NM -40/+85
1AB377200016	SFP CWDM LH 1611 NM -40/+85
1AB378370001	XFP CWDM-LH 1471NM
1AB378370003	XFP CWDM-LH 1511NM
1AB378370004	XFP CWDM-LH 1531NM
1AB378370005	XFP CWDM-LH 1551NM
1AB378370006	XFP CWDM-LH 1571NM
1AB378370007	XFP CWDM-LH 1591NM
1AB378370008	XFP CWDM-LH 1611NM
1AB378370009	XFP CWDM-LH 1471NM (-40/85)
1AB378370010	XFP CWDM-LH 1491NM (-40/85)
1AB378370012	XFP CWDM-LH 1531NM (-40/85)
1AB378370013	XFP CWDM-LH 1551NM (-40/85)
1AB378370015	XFP CWDM-LH 1591NM (-40/85)
1AB378370016	XFP CWDM-LH 1611NM (-40/85)
1AB379240001	XFP CWDM-SH 1471NM
1AB379240002	XFP CWDM-SH 1491NM
1AB379240003	XFP CWDM-SH 1511NM
1AB379240004	XFP CWDM-SH 1531NM

1AB379240005	XFP CWDM-SH 1551NM
1AB379240006	XFP CWDM-SH 1571NM
1AB379240007	XFP CWDM-SH 1591NM
1AB379240008	XFP CWDM-SH 1611NM
1AB379240009	XFP CWDM (40KM) 10G DDM 1471NM (-40/85)
1AB379240010	XFP CWDM (40KM) 10G DDM 1491NM (-40/85)
1AB379240011	XFP CWDM (40KM) 10G DDM 1511NM (-40/85)
1AB379240012	XFP CWDM (40KM) 10G DDM 1531NM (-40/85)
1AB379240013	XFP CWDM (40KM) 10G DDM 1551NM (-40/85)
1AB379640001	SFP FC/2FC/4FC 850NM
1AB390930002	SFP+ 10GBASE-LR/10G FC 10KM SMF -5/+85
1AB390930004	SFP+ 10GBASE-SR/10G FC MMF -5/+85
1AB390930007	SFP+ 2/4/8G FC 10KM SMF IB SDR/DDR -5/+8
1AB390930009	SFP+ 4/8/16G FC 10KM SMF -5/+85
1AB390930010	SFP+ 4/8/16G FC MMF -5/+85
1AB390930013	SFP+ P1I1-2D1/SR1/10GBASE-LR(W)/10XFC SM
1AB390930014	SFP+ STM-64/OC192 ITU-T S-64.2B/ IR-2/10
1AB393080007	SFP 100BX/ FE 40KM-UPSTREAM
1AB393080009	SFP 1000BX / STM-4 40KM UPSTREAM
1AB393080015	SFP OC-48/STM-16 15KM UPSTREAM
1AB393080016	SFP OC-48/STM-16 15KM DOWNSTREAM
1AB407440021	TSOP SMART SFP 155M STM-1/OC-3 (S-1.1)
1AB407440022	TSOP SMART SFP 155M STM-1/OC-3 (L-1.1)
1AB407440024	TSOP SMART SFP 622M STM-4/OC-12 (S-4.1)
1AB407440025	TSOP SMART SFP 622M STM-4/OC-12 (L-4.1)
1AB463340001	AC POWER CORD, US PSI
1AB474800003	QSFP28 100GBASE-LR4 SMF 10KM
1AB474800004	QSFP28 100GBASE-SR4 MMF 100M
1AB474800005	QSFP28 100GBASE-SR4/OTU4 MMF 100M
1AB474800006	QSFP+ 40GBASE-SR4 MMF 100/150M
1AB474800007	QSFP+ 40GBASE-LR4 SMF 10KM
1AB474800008	SFP+ 10GBASE-SR 850NM MMF
1AB474800009	SFP+ 10GBASE-LR 1310NM SMF 10KM
1AB474800010	SFP+ 11.3GB/S MULTIRATE 1310NM SMF 10KM
1AB474800011	SFP+ 11.3GB/S MULTIRATE 1550NM SMF 40KM
1AB474800012	SFP+ 11.3GB/S MULTIRATE 1550NM SMF 80KM
1AB474800014	SFP+ 2/4/8G FC 1310NM SMF 10KM
1AB474800015	SFP+ 4/8/16G FC 850NM MMF
1AB474800016	SFP+ 4/8/16G FC 1310NM SMF 10KM
1AB474800024	SFP 10/1000BASE-T COPPER 100M RJ45
1AB474800026	SFP 100/1000BASE-LX 1310NM SMF 10KM
1AB474800028	SFP OSC CWDM OC3/STM1/FE 1510NM SMF 40KM
1AB474800029	SFP OSC CWDM OC3/STM1/FE 1510NM SMF 80KM
1AB474800030	SFP OSC CWDM OC3/STM1/FE 1510NM SMF140KM
1AB474800031	SFP OSC CWDM OC3/STM1/FE 1510NM SMF 47DB
1AB474800033	SFP+ 8/16/32G FC 850NM MMF 70/150M
1AB474800034	SFP+ 8/16/32G FC 1310NM SMF 10KM
1AB474800035	QSFP28 100GBASE ER4LITE/OTU4 SMF 30/40KM
1AB474800036	CFP2 ACO 100G/200G DUAL FIBER ENH PERF
1AB474800038	QSFP+ 4x10GBASE-LR4 MPO SMF 10KM
1AB474800043	SFP+ TUNABLE WDM UP TO 11.3GB/S SMF 80KM
1AB474800044	QSFP28 100GBASE-ZR4/OTU4 SMF 80km
1AB478810001	RED AND BLUE (R/B) FILTER Y-CABLE
1AB478950001	1627 DUPLEX FILTER CABLE
1AC014910013	CA SHIELD 13PR 26AWG SOLID CONDUCTR,LSZH

1AC016760010	CABLE-MULTIC 4X2CD 6.1_PE 1.02MM 6.1MM
1AD008610003	1/2 SLOT SCREWDRIVER (LONG)
1AD093280001	KIT-JUMPER BAR FOR PDU1B/2B
1AD094650001	BREAKER TOGGLE
1AD151930001	FIBER STORAGE TRAY (2U)
1AD151940001	ATTENUATION DRAWER (1U)
1AD219790001	AC/DC RECTIFIER BLANK
1AD219800001	AC/DC SHELF FOR CTRL+RECTIFIER MODULES
1AD219800002	AC/DC SHELF FOR RECTIFIER MODULES
1AF07336AAAA	POWER DISTRIBUTION UNIT - NAR
1AF07337AAAA	POWER DISTRIBUTION UNIT - NAR - 4-I,12-O
1AF10889AAAA	POWER DISTRIBUTION UNIT - NAR (12 INPUT,
1AF25240AAAA	SD-SDI/HD-SDI/3G-SDI ELECTRICAL SFP
1AF30787AAAA	AC POWER SUPPLY PSI-M
1AF30788AAAA	DC POWER SUPPLY PSI-M
1AF33330AAAA	AC/DC CONTROLLER PLUGGABLE MODULE
3AG24765AAAA	COMPLETE FRONT PLATE (BREAKER 25A)
3AG33545ACAA	ESWL-RTU LIC 1830PSS APPLICATION OCS
3AG33545ADAA	ESWL-RTU LIC 1830PSS APPLICATION GMPLS
3AG33545AFAA	ESWL-1830PSS APPLICATION OTN GMPLS N-E
3AG34713AAAA	SWP-1830 PSS OCS R12.0.0
3AG34714AAAA	SWPL-1830 PSS OCS R12.0.0
3AG34739AAAA	SWP-1830 PSS OCS R13.0.4
3AG34740AAAA	SWPL-1830 PSS OCS R13.0.4
3AG34750AAAA	SWP-1830 PSS OCS R13.1.0
3AG34751AAAA	SWPL-1830 PSS OCS R13.1.0
3AL35096AA	INPUT LINE LUG KIT AWG1/0 (PER LINE)
3AL35096AB	INPUT LINE LUG KIT AWG2 (PER LINE)
3AL35096AC	INPUT LINE LUG KIT AWG4 (PER LINE)
3AL35096AD	INPUT LINE LUG KIT AWG6 (PER LINE)
3AL35096AE	INPUT LINE LUG KIT AWG8 (PER LINE)
3AL35096AF	INPUT LINE LUG KIT AWG10 TO 14(PER LINE)
3AL35098BC	ONETRUCIRCUIT BREAKER W/ AUX CONTACT (4
3AL35098BE	ONETRUCIRCUIT BREAKER W/ AUX CONTACT (1
3AL35098BG	ONETRUCIRCUIT BREAKER W/ AUX CONTACT (2
3AL35098BH	ONETRUCIRCUIT BREAKER W/ AUX CONTACT (2
3AL35098BJ	ONETRUCIRCUIT BREAKER W/ AUX CONTACT (1
3AL35098BK	ONETRUCIRCUIT BREAKER W/ AUX CONTACT (3
3AL35098BL	ONETRUCIRCUIT BREAKER W/ AUX CONTACT (4
3AL35098BN	ONETRUCIRCUIT BREAKER W/ AUX CONTACT (7
3AL35098BQ	ONETRUCIRCUIT BREAKER W/ AUX CONTACT (3
3AL35098BR	ONETRUCIRCUIT BREAKER W/ AUX CONTACT (6
3AL35098BT	ONETRUCIRCUIT BREAKER W/ AUX CONTACT (8
3AL35159AA	ONERACK WITH DOME DOOR
3AL35159AB	ONERACK - WITH BULGED DOOR AND RALED
3AL35160AAAB	DOOR DOME ASSEMBLIES
3AL35160AB	ONE RACK DOOR KIT WITH LEFT HANDLE
3AL75117AAAA	ESWL-PHOTONICS VERS (A) WDM LP
3AL75118AAAA	ESWL-PHOTONICS VERS (A) TDM LP
3AL81845AA	HD-SDI/3G-SDI ELECTRICAL SFP
3AL82017AA	SFP+ DWDM TUNABLE NCHIRP WITH WT
3AL82017AB	SFP+ DWDM TUNABLE NCHIRP W/O WT
3AL82018AA	SFP+ STM-64/OC192 CWDM SHORT HAUL (1471N
3AL82018AB	SFP+ STM-64/OC192 CWDM SHORT HAUL (1491N
3AL82018AC	SFP+ STM-64/OC192 CWDM SHORT HAUL (1511N

3AL82018AD	SFP+ STM-64/OC192 CWDM SHORT HAUL (1531N
3AL82018AE	SFP+ STM-64/OC192 CWDM SHORT HAUL (1551N
3AL82018AF	SFP+ STM-64/OC192 CWDM SHORT HAUL (1571N
3AL82018AG	SFP+ STM-64/OC192 CWDM SHORT HAUL (1591N
3AL82018AH	SFP+ STM-64/OC192 CWDM SHORT HAUL (1611N
3AL82019AA	SFP+ P1L1-2D2/LR-2/10GBASE-ZR(W) -5/+85
3AL82029AA	1GBE SMART SFP 1000BASE-LX10 SOAM 2.0
3AL82030AA	1GBE SMART SFP 1000BASE-ZX SOAM 2.0
3AL82031AA	1GBE SMART SFP 1000BASE-BX20-U SOAM 2.0
3AL82032AA	1GBE SMART SFP 1000BASE-BX40-U SOAM 2.0
3AL82033AA	1GBE SMART SFP 1000BASE-BX20-D SOAM 2.0
3AL82034AA	1GBE SMART SFP 1000BASE-BX40-D SOAM 2.0
3AL82038AA	SFP+ DWDM TUNABLE NCHIRP W/O WT
3AL82039AA	1627NM OSC SFP FOR I-TEMP(DUPLEX, SHAUL)
3AL82040AB	SFP OSC FE/STM-1 ULH 1516NM 120KM -5/85
3AL82041AA	CSOP SMART SFP, STM-1/OC-3 OVER GBE, E1-
3AL82042AA	TPOP SMART SFP, E1 (120 OHM BALANCED, RJ
3AL82043AA	SFP FE/STM-1 ULH BIDI OSC UPSTREAM -40/8
3AL82044AA	SFP FE/STM-1 ULH BIDI OSC DOWNSTREAM -40
3AL82045AA	XFP I-64.1/10GBE BASE-L -40/+85
3AL82048AA	SFP+ STM-64/OC192 CWDM LH 1471NM -40/85
3AL82048AB	SFP+ STM-64/OC192 CWDM LH 1491NM -40/85
3AL82048AC	SFP+ STM-64/OC192 CWDM LH 1511NM -40/85
3AL82048AD	SFP+ STM-64/OC192 CWDM LH 1531NM -40/85
3AL82048AE	SFP+ STM-64/OC192 CWDM LH 1551NM -40/85
3AL82048AF	SFP+ STM-64/OC192 CWDM LH 1571NM -40/85
3AL82048AG	SFP+ STM-64/OC192 CWDM LH 1591NM -40/85
3AL82048AH	SFP+ STM-64/OC192 CWDM LH 1611NM -40/85
3AL82055AA	XFP I-64.1/10GBE BASE-L
3AL82057AA	SFP+ 10G 10KM UPSTREAM -40/85
3AL82058AA	SFP+ 10G 10KM DOWNSTREAM -40/85
3AL82059AA	SFP+ 10G 40KM UPSTREAM -40/85
3AL82060AA	SFP+ 10G 40KM DOWNSTREAM -40/85
3AL82062AA	XFP 10G 10KM UPSTREAM -40/85
3AL82063AA	XFP 10G 10KM DOWNSTREAM -40/85
3AL82064AA	XFP 10G 40KM UPSTREAM -40/85
3AL82065AA	XFP 10G 40KM DOWNSTREAM -40/85
3AL82066AA	SFP+ CWDM GBE/CPRI 2-8/10GBE (1271 NM) -
3AL82066AB	SFP+ CWDM GBE/CPRI 2-8/10GBE (1291 NM) -
3AL82066AC	SFP+ CWDM GBE/CPRI 2-8/10GBE (1311 NM) -
3AL82066AD	SFP+ CWDM GBE/CPRI 2-8/10GBE (1331 NM) -
3AL82066AE	SFP+ CWDM GBE/CPRI 2-8/10GBE (1351 NM) -
3AL82066AF	SFP+ CWDM GBE/CPRI 2-8/10GBE (1371 NM) -
3AL82066AG	SFP+ CWDM GBE/CPRI 2-8/10GBE (1391 NM) -
3AL82066AH	SFP+ CWDM GBE/CPRI 2-8/10GBE (1411 NM) -
3AL82066AJ	SFP+ CWDM GBE/CPRI 2-8/10GBE (1431 NM) -
3AL82066AK	SFP+ CWDM GBE/CPRI 2-8/10GBE (1451 NM) -
3AL82066AL	SFP+ CWDM GBE/CPRI 2-8/10GBE (1471 NM) -
3AL82066AM	SFP+ CWDM GBE/CPRI 2-8/10GBE (1491 NM) -
3AL82066AN	SFP+ CWDM GBE/CPRI 2-8/10GBE (1511 NM) -
3AL82066AP	SFP+ CWDM GBE/CPRI 2-8/10GBE (1531 NM) -
3AL82066AQ	SFP+ CWDM GBE/CPRI 2-8/10GBE (1551 NM) -
3AL82066AR	SFP+ CWDM GBE/CPRI 2-8/10GBE (1571 NM) -
3AL82066AS	SFP+ CWDM GBE/CPRI 2-8/10GBE 1591 NM -40
3AL82066AT	SFP+ CWDM GBE/CPRI 2-8/10GBE 1611 NM -40

3AL82072AA	QSFP28 100G BASE-LR4 DUAL RATE 100GE/OTU
3AL82073AA	SFP+ DWDM 40KM (CH60) -40/85
3AL82073AB	SFP+ DWDM 40KM (CH59) -40/85
3AL82073AC	SFP+ DWDM 40KM (CH58) -40/85
3AL82073AD	SFP+ DWDM 40KM (CH57) -40/85
3AL82073AE	SFP+ DWDM 40KM (CH56) -40/85
3AL82073AG	SFP+ DWDM 40KM (CH54) -40/85
3AL82073AH	SFP+ DWDM 40KM (CH53) -40/85
3AL82073AJ	SFP+ DWDM 40KM (CH52) -40/85
3AL82073AK	SFP+ DWDM 40KM (CH51) -40/85
3AL82073AL	SFP+ DWDM 40KM (CH50) -40/85
3AL82073AM	SFP+ DWDM 40KM (CH49) -40/85
3AL82073AN	SFP+ DWDM 40KM (CH48) -40/85
3AL82073AQ	SFP+ DWDM 40KM (CH46) -40/85
3AL82073AR	SFP+ DWDM 40KM (CH45) -40/85
3AL82073AT	SFP+ DWDM 40KM (CH43) -40/85
3AL82073AU	SFP+ DWDM 40KM (CH42) -40/85
3AL82073AV	SFP+ DWDM 40KM (CH41) -40/85
3AL82073AW	SFP+ DWDM 40KM (CH40) -40/85
3AL82073AY	SFP+ DWDM 40KM (CH38) -40/85
3AL82073AZ	SFP+ DWDM 40KM (CH37) -40/85
3AL82073BB	SFP+ DWDM 40KM (CH35) -40/85
3AL82073BC	SFP+ DWDM 40KM (CH34) -40/85
3AL82073BD	SFP+ DWDM 40KM (CH33) -40/85
3AL82073BE	SFP+ DWDM 40KM (CH32) -40/85
3AL82073BG	SFP+ DWDM 40KM (CH30) -40/85
3AL82073BH	SFP+ DWDM 40KM (CH29) -40/85
3AL82073BK	SFP+ DWDM 40KM (CH27) -40/85
3AL82073BL	SFP+ DWDM 40KM (CH26) -40/85
3AL82073BM	SFP+ DWDM 40KM (CH25) -40/85
3AL82073BN	SFP+ DWDM 40KM (CH24) -40/85
3AL82073BP	SFP+ DWDM 40KM (CH23) -40/85
3AL82073BQ	SFP+ DWDM 40KM (CH22) -40/85
3AL82073BR	SFP+ DWDM 40KM (CH21) -40/85
3AL82073BU	SFP+ DWDM 40KM (CH18) -40/85
3AL82074AA	QSFP28 100G BASE-LR4 SINGLE RATE 100GE
3AL82075AA	QSFP28 CWDM4 SINGLE RATE 100GE
3AL82076AC	SFP GBE CWDM SH 1511NM (-40/85)
3AL82081AA	SFP EULH-II OSC 1511NM
3AL82090AA	TPOP SMART SFP, T1 (100 OHM BALANCED, RJ
3AL82098AA	TSOP SMART SFP STM-16/OC-48 (I-16.1)
3AL82099AA	QSFP28 100G BASE-SR4 SINGLE RATE 100GE
3AL82100AA	TSOP SMART SFP 155M S1.1
3AL82101AA	TSOP SMART SFP 155M L1.1
3AL82102AA	TSOP SMART SFP 622M S4.1
3AL82103AA	TSOPSMART SFP 622M L4.1
3AL82108AA	SFP OSC GBE/STM-1 BIDI-U 1627NM 40KM IT
3AL82109AA	SFP OSC GBE/STM-1 BIDI-D 1627NM 40KM IT
3AL82110AA	SFP+ DWDM 40KM APD CH60 -40/85
3AL82110AB	SFP+ DWDM 40KM APD CH59 -40/85
3AL82110AC	SFP+ DWDM 40KM APD CH58 -40/85
3AL82110AD	SFP+ DWDM 40KM APD CH57 -40/85
3AL82110AE	SFP+ DWDM 40KM APD CH56 -40/85
3AL82110AF	SFP+ DWDM 40KM APD CH55 -40/85
3AL82110AG	SFP+ DWDM 40KM APD CH54 -40/85

3AL82110AH	SFP+ DWDM 40KM APD CH53 -40/85
3AL82110AL	SFP+ DWDM 40KM APD CH50 -40/85
3AL82110AN	SFP+ DWDM 40KM APD CH48 -40/85
3AL82110AP	SFP+ DWDM 40KM APD CH47 -40/85
3AL82110AQ	SFP+ DWDM 40KM APD CH46 -40/85
3AL82110AR	SFP+ DWDM 40KM APD CH45 -40/85
3AL82110AS	SFP+ DWDM 40KM APD CH44 -40/85
3AL82110AT	SFP+ DWDM 40KM APD CH43 -40/85
3AL82110AU	SFP+ DWDM 40KM APD CH42 -40/85
3AL82110AV	SFP+ DWDM 40KM APD CH41 -40/85
3AL82110AW	SFP+ DWDM 40KM APD CH40 -40/85
3AL82110AX	SFP+ DWDM 40KM APD CH39 -40/85
3AL82110AY	SFP+ DWDM 40KM APD CH38 -40/85
3AL82110AZ	SFP+ DWDM 40KM APD CH37 -40/85
3AL82110BB	SFP+ DWDM 40KM APD CH35 -40/85
3AL82110BC	SFP+ DWDM 40KM APD CH34 -40/85
3AL82110BD	SFP+ DWDM 40KM APD CH33 -40/85
3AL82110BE	SFP+ DWDM 40KM APD CH32 -40/85
3AL82110BF	SFP+ DWDM 40KM APD CH31 -40/85
3AL82110BG	SFP+ DWDM 40KM APD CH30 -40/85
3AL82110BH	SFP+ DWDM 40KM APD CH29 -40/85
3AL82110BJ	SFP+ DWDM 40KM APD CH28 -40/85
3AL82110BK	SFP+ DWDM 40KM APD CH27 -40/85
3AL82110BL	SFP+ DWDM 40KM APD CH26 -40/85
3AL82110BP	SFP+ DWDM 40KM APD CH23 -40/85
3AL82110BQ	SFP+ DWDM 40KM APD CH22 -40/85
3AL82110BR	SFP+ DWDM 40KM APD CH21 -40/85
3AL82110BS	SFP+ DWDM 40KM APD CH20 -40/85
3AL82110BT	SFP+ DWDM 40KM APD CH19 -40/85
3AL82110BU	SFP+ DWDM 40KM APD CH18 -40/85
3AL82110BV	SFP+ DWDM 40KM APD CH17 -40/85
3AL82111AA	SFP OSC GBE 1627NM 80KM W/ OTDR -40/85
3AL82117AA	SFP+ CPRI6-7 MMF 300M -40/85
3AL82130AA	SFP+ CPRI3-8/10GBE SMDF 15KM -40/85
3AL82135AA	SFP BIDI OSC-U STM-1/GE SH 1506NM -40/85
3AL82136AA	SFP BIDI OSC-D STM-1/GE SH 1514NM -40/85
3AL82141AA	SFP OSC FE/STM-1 ULH 1627NM 120KM -5/70
3AL82146AA	SFP SD-SDI/HD-SDI/3G-SDI 30KM ET
3AL82152AA	QSFP28 ER4-LITE DR 100GE/OTU4 -5/75
3AL82154AB	SFP OSC FE/STM-1 EULH 1516NM 150KM -5/85
3AL82155AA	CFP4-ACO 100G / 200G COHERENT PLUGGABLE
3AL82155AB	CFP4-ACO 100G/200G COH PLUGGABLE (LP)
3AL82167AA	SFP OSC GBE EULH 1516NM 150KM -5/85
3AL82182AA	C2ACOA CFP2-ACO METRO
3AL82187AA	QSFP56-DD 400GBASE-LR8 -5/+75
3AL82188AA	QSFP56-DD 400GBASE-FR4 -5/+75
3AL82189AA	SFP 2MBPS 20KM CT SMF
3AL82199AA	QDDCO4Z-400G QSFP-DD DCO COH (400ZR)
3AL82214AA	SFP FE 100BASE-T EL -10/+85
3AL82217AA	QSFP28 100GBASE-SR4 DR 100GE/OTU4 -5/75
3AL82220AA	SFP BIDI OTC-U STM-1/GE ULH 1506NM IT
3AL82222AA	QSFP+ 4x10GBASE-LR -5/85
3AL82230AA	SFP EL 100/1000BASE-T 0/+70
3AL82231AA	SFP28 8G/16G/32GFC -5/85
3AL82233AA	SFP BIDI OTC-U STM-1/FE ULH 1514.4NM IT

3AL82234AA	SFP BIDI OTC-D STM-1/FE ULH 1517.6NM IT
3AL82237AA	QSFP28 100GBASE-FR1 -5/75
3AL82242AA	QSFP56-DD 400GBASE-LR4 -5/+75
3AL82245AA	QSFP56-DD 400GBASE-DR4+ _4xFR1 W/ SN CONN
3HE07800AA	SAR-W Mounting Bracket Kit
3HE14159AA	CENTRALIZED LICENSE MANAGER (CLM)
3KC12949AA	ED 4 CA-HK CABLE, 15M, SHIELDED (ANSI)
3KC13016AA	AC CABLE ADAPTOR
3KC13130CB	CA-E1/DS1 2MHZ AND 1PPS TOD,50M
3KC13130CC	CA-E1/DS1 2MHZ AND 1PPS TOD,100M
3KC13156BA	PTPCTL IEEE1588V2 CONTROLLER CARD
3KC13172AAAA	CA-PSS4 CRAFT INTERFACE TERMINAL (1.5M)
3KC13205BC	CA-E1/DS1 2MHZ 1PSS TOD,RJ5,50M
3KC13401AA	CA-RJ45 CROSS OVER 2M
3KC35392AB	ONETRUE KIT, ANSI
3KC35452AA	20UC200 - 20X10G T-SFP UPLINK
3KC35464AA	SC96 - SWITCH CARD 4T8
3KC40942AA	ONE RACK DOOR LOCK KIT
3KC40952AA	PSS-24X RACK DOOR KIT
3KC40953AB	PSS-24X SIDE PANELS ONE RACK 600 + 25 KIT
3KC40958AB	PSS-24X ANSI SHELF INSTALLATION KIT
3KC43106AA	SFC 4CH A VARIANT TYPE II (27-33)
3KC43107AAAA	ESWP-1830 VWM MS R09.00.00
3KC43109AAAA	ESWP-1830 VWM SMM R09.00.00
3KC43116AA	SLOT BLANK, 0.5RU, 4 SLOTS, TYPE II
3KC43139AA	POD 8CH A Variant, LM, CH(59..52)
3KC43140AA	SFD 8CH A Variant, LM, CH(59..52)
3KC43141AA	1830VWM POD8 WATERPROOF PLUG KITS
3KC43142AA	1830VWM POD-8 WALL/POLE MOUNTING BRACKET
3KC43145AAAA	ESWP-1830 VWM MS R09.00.01
3KC43147AAAA	ESWP-1830 VWM SMM R09.00.01
3KC43168AA	POD-8 MPO-LC OUTDOOR CABLE 5M
3KC43223AAAA	ESWP-1830 VWM SMM R09.00.02
3KC43224AAAA	ESWP-1830 VWM MS R09.00.02
3KC48820AA	8EC2 -EQUIPT CONTROLLER-PSS8,TEMP-HARDEN
3KC48830AA	PSS8-8SP- SHELF PNL,TEMP-HARDEN
3KC48839AA	MA-FRONT COVER, FAN TRAY
3KC48840AA	PSS8-8UP-USER PANEL TEMP-HARDENED
3KC48850AA	PSS8-8FAN-FAN UNIT,TEMP-HARDENED
3KC48870AB	POWER FILTER-30A-PSS8 (8DC30)
3KC48880AA	8AC7-AC PWRFLTR(7A AT 110V)PSS8,TEMP-HAR
3KC48900AA	PSS8 SHELF KIT -PSS8KIT (1XPSS8, 1X8FAN)
3KC48901AA	PSS8 SHELF-(INCLUDING PSS8SHF,SHELF PNL)
3KC48960AB	PSS16II-PSS16II SHELF (SHELF CHASSIS AND
3KC48960AC	PSS16II SHELF AC/DC (SHF CHASIS WBPLN)
3KC48963BA	KIT 16IISHLF CC EAL3
3KC48980AB	16UP2 - USER PANEL PSS16II
3KC48990AB	16FAN2 - FAN UNIT - PSS16II
3KC49010AA	16DC65-DC PWRFLTR(63A) PSS16II W SMPLTMG
3KC49020AB	16DC65T-DCPWRFLTR 65A PSS16II W FULLTMNG
3KC49030AA	16AC16 - PSS16II AC/DC PWR MODULE
3KC49038AA	GNSS SFP MODULE
3KC49040AA	CA-ANTENNA CABLE(60M)FOR GNSS SFP MODULE
3KC49041AA	CA-ANTENNA CABLE (10M)FOR GNSS SFP MODLE
3KC49050BB	KIT 16IISHLF(1XSHLF,FAN,16UP2,AIRFLTR)

3KC49050BC	KIT 16IISHLF AC/DC (SHLFAN 16UP2 ARFLTR)
3KC49050BD	KIT16IISHLF AC/DC LP(SHLFAN2C16UP2 FLTR)
3KC49100AA	16FAN2C - FAN UNIT- PSS16II LP
3KC49105AA	8DC30T2-DCPF30A PSS8 FULLTMG TH W/O BITS
3KC49114AB	PSS16II COVER 19IN 4-POST 8RU SHF W/ VW
3KC49114AC	PSS16II COVER 19IN 4-POST 9RU SHF W/ VW
3KC49119AA	PSS16II FAN COVER 19IN 4-POST
3KC49170AA	PTPIOC IEEE1588V2 PTP BIDI OTC INTF CARD
3KC49200AA	11QPA4B - 11G TRANSPONDER (4X10GE CLNT)
3KC49210AB	AA2DONWB -AMP 2-DIR W/O WT 44CH W APR
3KC49220AB	OSCTAPR -OSC TERMINATION W/O WT W APR
3KC49230AA	SFDC8A - STATIC FLTR DWDM CMPCT 8CH (A)
3KC49230AB	SFDC8B - STATIC FLTR DWDM CMPCT 8CH (B)
3KC49230AC	SFDC8C - STATIC FLTR DWDM CMPCT 8CH (C)
3KC49230AD	SFDC8D - STATIC FLTR DWDM CMPCT 8CH (D)
3KC49230AE	SFDC8E - STATIC FLTR DWDM CMPCT 8CH (E)
3KC49240AA	8P20 - 8XANY 10G TRIB 6XANY MUX
3KC49801AA	PSS8 -8ECBNK - EQUIPCONTROLLER BLNK
3KC49802AA	8DCBNK - DC POWER FILTER BLANK-PSS-8
3KC49803AA	AIR FILTER BLANK-PSS8
3KC49812AA	PSS8 INST KIT-19IN EIA
3KC49814AA	PSS8 INST KIT-23IN ANSI
3KC49822AA	CA-DC POWER CABLE_DC 3.6M_ ANGLED (PSS8)
3KC49822AB	CA-DC POWER CABLE_DC 10M_ ANGLED (PSS8)
3KC49822AC	CA-DC POWER CABLE_DC 20M_ ANGLED (PSS8)
3KC49823AA	CA-RACK ALARM CABLE
3KC49824AA	CA-RACK LAMP CABLE
3KC49825AA	CA-CRAFT
3KC49926AA	AIR FILTER - PSS8
3KC49946AA	8CVR -PSS8 FRONT COVER
3KC50001AA	16DCBNK - DC POWER FILTER BLANK-PSS16II
3KC50011AB	PSS16II INST KIT-19IN 4-POST 8RU
3KC50011AC	PSS16II INST KIT-19IN 4-POST AC/DC
3KC50012AB	16INST19 - PSS16II INST KIT-19IN EIA
3KC50012AC	PSS16II INST KIT-19IN 2-POST AC/DC
3KC50013AC	PSS16II INST KIT-21IN AC/DC
3KC50014AB	16INST23 - PSS16II INST KIT-23IN ANSI
3KC50014AC	PSS16II INST KIT-23IN AC/DC
3KC50021AA	PSS16II CA-DC POWER CABLE_LEFT 3.6M
3KC50021AB	PSS16II CA-DC POWER CABLE_LEFT 10M
3KC50021AC	PSS16II CA-DC POWER CABLE_LEFT 20M
3KC50022AA	PSS16II CA-DC POWER CABLE_RIGHT 3.6M
3KC50022AB	PSS16II CA-DC POWER CABLE_RIGHT 10M
3KC50022AC	PSS16II CA-DC POWER CABLE_RIGHT 20M
3KC50023AB	CA-AC PWR SUPPLY CABLE-NORTH AMERICA 16A
3KC50025AA	CA-DC POWER CABLE, PSS16II
3KC50040AB	16AF2 - PSS16II AIR FILTER
3KC50122AB	16CVR2 - PSS16II FRONT COVER KIT
3KC50122AC	16CVR2 - PSS16II FRONT COVER KIT
3KC50130AA	AC/DC RECTIFIER PLUGGABLE MODULE
3KC50131AA	AC/DC SHELF - SINGLE
3KC50132AA	AC/DC SHELF - DUPLEX
3KC50135AA	AC/DC SHF INST KIT-19IN EIA
3KC50138AA	AC/DC SHELF INST KIT-23IN ANSI
3KC50248AB	AIR DEFLECTOR (1830PSS4/8)

3KC50285AA	16DCAPT-DCPWR FLTR ADPTR PSS-16II AC SHF
3KC50322AA	30AN300 - 30X10G SFP+ CLIENT CARD
3KC50330AA	PSS-24X MULTI FUNCTION CARD
3KC50335AA	CCC-CENTRAL CLOCK AND CONTROLLER
3KC50388AA	PSF24X PSS-24X POWER SUPPLY FILTER
3KC50429AB	PSS-24X FAN TRAY
3KC50486AA	PSS-24X TEMP. AND PRESSURE SENSOR CARD
3KC50567AA	CABLE - HOUSEKEEPING IN (DSUB) 30M
3KC50568AA	CABLE- HOUSEKEEPING OUT (DSUB) 30M
3KC50569AA	CABLE- REMOTE ALARM (DSUB) 30M
3KC50570AB	CABLE- RACK LAMPS OUT RACK LED (DSUB) 3M
3KC50572AA	CA PSS24XPSS24XRKLMPSPDAYZCHN(DSUBDSUB)3M
3KC50573AA	CA PSS24XPSS36XRKLMPSPDAYZCHN(DSUBDSUB)3M
3KC50574AA	CA-TEMP PRESS SENSOR
3KC50625AA	PSS-24X ANSI LOWER COMPLETE AIR BAFFLE
3KC50629AA	PSS-24X ANSI MIDDLE COMPLETE AIR BAFFLE
3KC50699AA	PSS-24X SUBRACK BLANK ANSI
3KC50701AA	CABLE - GROUND CABLE 3M
3KC59819AC	IO SLOT BLANK CARD
3KC60153AA	30SE300 - 30X X10GE L2
3KC60165AA	6SE300 - 100GE L2
3KC60191AA	10AN400 - 10/40/100G ANYRATE CARD
3KC60223AA	PSS24X SHELF, MFC24X AND TPSC24X
3KC60351AA	PSS24X AIR FILTER
3KC60352AAAA	ESWL-RTU LIC 1830PSS-24X 100G CAP
3KC60353AAAA	ESWL-RTU LIC 1830PSS-24X 100G CAP GMRE
3KC60354AAAA	ESWL-RTU LIC 1830PSS-24X 200G PORT
3KC60428AA	20AN80 - 20X 10G/SUB10G MULTIRATE CARD
3KC60474AA	SC24T - SWITCH CARD 24T
3KC60555AA	PSS24X MONITOR PORTS COVER REPAIR KIT
3KC60557AA	PSF24H PSS-24X POWER SUPPLY FILTER H
3KC61010AB	10AN1T- 10X100G/4X200GBE/2X400GBE CLIENT
3KC61026AA	8UC1T - 8-PORT 100G/200G UPLINK
3KC61074AA	4UC1T - 4X200G/250G 2x300G/400G UPLINK
3KC61166AA	CSI48V-CableKit Swtch Interconnect 48T-V
3KC61267AA	AC/DC POWER CABLE KIT
3KC68223AB	SMS ENHANCED POWER SUPPLY
3KC68225AB	10 SMS SMARTCARDS V2
3KC68226AA	BATTERY, 2 SPARES, 3.6V PRIMARY LITHIUM
3KC68257AA	1 KIT OF 2 3KC68223AB PSU UNITS
3KC69418AC	PSI-M 2 POST RACK 23IN EIA INSTALL KIT
3KC69418AD	PSI-M 2 POST RACK 19IN EIA INSTALL KIT
3KC69661AA	1830PSS32 DUST PLUG KIT
3KC69751AA	IRDM20-20D ROADM SWG AMP
3KC69751AB	IRDM20-20D ROADM SWG AMP LP
3KC69754AA	1830 VWM DCM TLU/PMU INDOOR SHELF DC
3KC69755AA	1830 VWM DCM TLU/PMU INDOOR SHELF AC
3KC69756AA	1830VWM DCM 6CH CPRI7 TLU/PMU MOD REC
3KC69757AA	1830 VWM DCM 6CH CPRI7 TLU/PMU MOD RE
3KC69758AA	1830VWM DCM 6CH CPRI3 TLU/PMU MODUL REC
3KC69759AA	1830 VWM DCM 6CH CPRI3 TLU/PMU MOD RE
3KC69760AA	1830VWM DCM 6CH CPRI7 TLU/PMU OUTDOOR DC
3KC69761AA	1830VWM DCM 6CH CPRI7 TLU/PMU OUTDOOR AC
3KC69762AA	1830VWM DCM 6CH CPRI3 TLU/PMU OUTDOOR DC
3KC69763AA	1830VWM DCM 6CH CPRI3 TLU/PMU OUTDOOR AC

3KC69764AA	1830 VWM DCM TLU/PMU INDOOR SLOT FILLER
3KC69765AA	1830VWM DCM TLU/PMU OUTDOOR BACK-MNT KIT
3KC69766AA	1830VWM DCM TLU/PMU OUTDOOR SIDE-MNT KIT
3KC69767AA	1830VWM DCM TLU/PMU INDOOR MOUNT KIT
3KC69771AA	1830 VWM DCM TLU/PMU INDOOR FAN UNIT
3KC69796AA	SFD-96 96 CHANNEL OPTICAL MUX/DEMUX
3KC69797AA	IPREAMP-BOOSTER/PRE-AMP FOR IROADM
3KC69819AA	OPSB5 - MULTIPOINT OPSB CARD
3KC69823AA	D5X500Q 500G MUX/UL, 5CL, SUBSEA
3KC69831AA	OPS PROTECTION CARD FOR TX_ RX, OSM-DSV
3KC69860AA	SFC9 TYPE II 1271-1611NM BIDI DN
3KC69861AA	SFC9 TYPE II 1271-1611NM BIDI UP
3KC69929AA	PSS-32 BACKPLANE CONNECTOR COVER W/ TOOL
3KC69993AA	S2AD200H- 1X100G/200G OT HP UNRESTRICTED
3KC69994AA	PSS-32 BACKPLANE CONNECTOR COVERS (2)
3KC70026AAAA	SWP-1830 PSS APA R10.1.0
3KC70045AAAA	ESWL-DFC12 100GB PORT 100G MODE LIFE
3KC70046AAAA	ESWL-DFC12 100GB PORT 200G MODE LIFE
3KC70047AAAA	ESWL-DFC12 100GB PORT 300G MODE LIFE
3KC70048AAAA	ESWL-DFC12 100GB PORT 400G MODE LIFE
3KC70049AAAA	ESWL-DFC12 100GB PORT 500G MODE LIFE
3KC70050AAAA	ESWL-RTU 100G LONG HAUL LIFE
3KC70051AAAA	ESWL-RTU 100G REGIONAL LIFE
3KC70053AAAA	ESWL-DFM6 400GB PORT 400G MODE LIFE
3KC70054AAAA	ESWL-RTU CLIENTPORT ETHERNET
3KC70055AAAA	ESWL-D5X500Q UNIDIR REGEN MODE MONTH
3KC70056AAAA	ESWL-D5X500Q UNIDIR REGEN MODE LIFE
3KC70057AAAA	ESWL-RTU CLIENTPORT GENERIC
3KC70063AAAA	ESWL-S2AD200H UNIDIR REGEN MODE LIFE
3KC70064AAAA	ESWL-ALIEN 12.5GHZ MONTH
3KC70065AAAA	ESWL-S2AD200R UNIDIR REGEN MODE LIFE
3KC70084AA	MVACF MULTI VARIABLE ATTENUATOR FLEXGRID
3KC70096AA	SHELF COVER LATCH REPAIR KIT 14.2MM HEAD
3KC70100AAAA	ESWL-ALIEN 12.5GHZ LIFE
3KC70111AA	TLU-200 10CH TRANSLATION LINE UNIT
3KC70163AA	IRDM32 - 32D ROADM SWG C-BAND
3KC70186AA	RA4P C BAND RAMAN AMPLIFIER - 4 PUMPS
3KC70203AA	1830VWM TYPE 2 FAN UNIT DUST FILTER
3KC70234AA	MCS1615 MULTICASTSWITCH 16-DEG 15-PORTS
3KC70245AA	SFD 10CH A VARIANT, LM, CH(60-51)
3KC70245AB	SFD 10CH B VARIANT, LM, CH(49-40)
3KC70245AC	SFD 10CH C VARIANT, LM, CH(37-28)
3KC70245AD	SFD 10CH D VARIANT, LM, CH(25-16)
3KC70254AC	1830VWM 1RU TYPE 3 23IN WECO RK MT BRKT
3KC70254AD	1830VWM 1RU TYPE 3 23IN EIA RK MT BRKT
3KC70270AA	SHELF 19IN, 0.5RU, 2 SLOTS, TYPE II
3KC70281AA	SHELF 21IN, 0.5RU, 2 SLOTS, TYPE II
3KC70282AA	SHELF 23 IN, 0.5RU, 2 SLOTS, TYPE II
3KC70341AA	DCM - SMF 10KM, LATENCY MATCHED,CT
3KC70342AA	IRDM32L - 32D ROADM SWG L-BAND
3KC70366AA	S4X400H 4X100G OT SUBSEA UNRESTRICTED
3KC70424AA	OMDCL C+L OPTICAL MUX/DEMUX, OTDR
3KC70514AA	MCS1615L MULTICSTSWTCH 16DEG 15PRT L-BAN
3KC70591AA	ESRE EXTENSION SHELF RANGE EXTENDER
3KC70641AA	1ETY100 CARRIER ETH QSFP28 1X100GBE

3KC70676AA	S4X400H 4X100G OT UNRESTRICTED
3KC70692AA	MLFSB MPO-LC BREAKOUT SHUFFLE
3KC70693AA	ASG AMPLIFIER SWITCHED GAIN EDFA
3KC70693AB	ASGLP AMPLIFIER SWITCHED GAIN EDFA LP
3KC70738AA	S4X400L 4X100G OT UNRESTRICTED
3KC70803AA	S5AD400H 4X100G 1X400G OT UNRESTRICTED
3KC70817AA	S5AD400H 4X100G 1X400G OT RESTRICTED
3KC70869AA	IR9 - REGIONAL 9D ROADM SWG AMP
3KC70869AB	IR9LP - REGIONAL 9D ROADM SWG AMP LP
3KC70930AAAA	ESWL-DD2M4 100GB PORT 100G MODE MONTH
3KC70931AAAA	ESWL-DD2M4 100GB PORT 200G MODE MONTH
3KC70932AAAA	ESWL-DD2M4 100GB PORT 400G MODE MONTH
3KC70933AAAA	ESWL-DD2M4 400GB PORT 400G MODE MONTH
3KC70934AAAA	ESWL-DD2M4 100GB PORT 100G MODE LIFE
3KC70936AAAA	ESWL-DD2M4 100GB PORT 400G MODE LIFE
3KC70937AAAA	ESWL-DD2M4 400GB PORT 400G MODE LIFE
3KC70942AAAA	ESWL-DFC12 UNIDIR REGEN MODE MONTH
3KC70943AAAA	ESWL-DFC12 UNIDIR REGEN MODE LIFE
3KC70944AAAA	ESWL-S2AD200H 100GB PORT 100G MODE MONTH
3KC70945AAAA	ESWL-S2AD200H 100GB PORT 200G MODE MONTH
3KC70946AAAA	ESWL-S2AD200H 100GB PORT 100G MODE LIFE
3KC70947AAAA	ESWL-S2AD200H 100GB PORT 200G MODE LIFE
3KC70948AAAA	ESWL-S2AD200R 100GB PORT 100G MODE MONTH
3KC70949AAAA	ESWL-S2AD200R 100GB PORT 200G MODE MONTH
3KC70950AAAA	ESWL-8UC1T SPARE
3KC70951AAAA	ESWL-S2AD200R 100GB PORT 100G MODE LIFE
3KC70952AAAA	ESWL-S2AD200R 100GB PORT 200G MODE LIFE
3KC70953AAAA	ESWL-S2AD200H UNIDIR REGEN MODE MONTH
3KC70954AAAA	ESWL-DFC12 100GB PORT 100G MODE MONTH
3KC70955AAAA	ESWL-DFC12 100GB PORT 200G MODE MONTH
3KC70956AAAA	ESWL-DFC12 100GB PORT 300G MODE MONTH
3KC70957AAAA	ESWL-DFC12 100GB PORT 400G MODE MONTH
3KC70958AAAA	ESWL-DFC12 100GB PORT 500G MODE MONTH
3KC70959AAAA	ESWL-DFC12 SPARE
3KC70960AAAA	ESWL-DFM6 SPARE
3KC70961AAAA	ESWL-DD2M4 SPARE
3KC70967AAAA	ESWL-2UC400 100GB PORT 100G MONTH
3KC70968AAAA	ESWL-2UC400 100GB PORT 200G MONTH
3KC70974AAAA	ESWL-2UC400 100GB PORT 100G LIFE
3KC70975AAAA	ESWL-2UC400 100GB PORT 200G LIFE
3KC70976AAAA	ESWL-DFM6 UNIDIR REGEN MODE MONTH
3KC70977AAAA	ESWL-DFM6 UNIDIR REGEN MODE LIFE
3KC70978AAAA	ESWL-DD2M4 UNIDIR REGEN MODE MONTH
3KC70995AAAA	ESWL-4UC1T 100GB PORT 200G MODE MONTH
3KC70996AAAA	ESWL-4UC1T 100GB PORT 300G MODE MONTH
3KC70997AAAA	ESWL-4UC1T 100GB PORT 400G MODE MONTH
3KC70998AAAA	ESWL-4UC1T 100GB PORT 200G MODE LIFE
3KC70999AAAA	ESWL-4UC1T 100GB PORT 300G MODE LIFE
3KC71000AAAA	ESWL-4UC1T 100GB PORT 400G MODE LIFE
3KC71001AAAA	ESWL-8UC1T 100GB PORT 100G MODE MONTH
3KC71002AAAA	ESWL-8UC1T 100GB PORT 200G MODE MONTH
3KC71003AAAA	ESWL-8UC1T 100GB PORT 100G MODE LIFE
3KC71004AAAA	ESWL-8UC1T 100GB PORT 200G MODE LIFE
3KC71006AAAA	ESWL-4UC1T SPARE
3KC71008AAAA	ESWL-S2AD200 SPARE

3KC71012AAAA	ESWL-GENERIC 12.5GHZ LIFE
3KC71013AAAA	ESWL-GENERIC 12.5GHZ MONTH
3KC71023AA	OPSUM OPTCL PROT SWTCH MLTCARRIER CBAND
3KC71037AA	MXN824 CONTENTIONLESS WSS 8DEG 24PORTS
3KC71052AA	ASC4 - AMPLIFIED SPLITTER/COMBINER
3KC71053AA	ASC4L -AMPLIFIED SPLITTER/COMBINER LBAND
3KC71057AA	OPSUML OPTCL PROT SWTCH MLTCARRIER LBAND
3KC71058AA	MXN824L CONTENTIONLESS WSS8D24PRTS LBAND
3KC71085AA	MPO-MPO JUMPER, MULTIMODE, TYPE B, 3.5M
3KC71085AB	MPO-MPO JUMPER, MULTIMODE, TYPE B, 7M
3KC71085AC	MPO-MPO JUMPER, MULTIMODE, TYPE B, 10M
3KC71085AD	MPO-MPO JUMPER, MULTIMODE, TYPE B, 15
3KC71085BA	MPO JUMPER MM TYPE B NAR/ETSI DR 350MM
3KC71085BB	MPO JUMPER MM TYPE B NAR/ETSI DR 700MM
3KC71085BC	MPO JUMPER MM TYPE B NAR/ETSI DR 865MM
3KC71085BD	MPO JUMPER MM TYPE B NAR/ETSI DR 975MM
3KC71152AAAA	SWP-1830 PSS ECE R13.0.0
3KC71154AAAA	SWPL-1830 PSS ECE R13.0.0
3KC71158AA	IRDM32LP - 32D ROADM SWG C-BAND LP
3KC71192AA	S6AD600H 6X100G 1X400G OT UNRESTRICTED
3KC71192AB	S6AD600H 6X100G 1X400G SUBSEA UNRESTRCTD
3KC71203AA	16P200 - 200G FLEXIBLE MULTI-SERVICE MUX
3KC71294AD	MEC2L CONTROLLER KIT - 1830 R14.0
3KC71294AF	MEC2L CONTROLLER KIT - R22.12
3KC71294EE	MEC2L CONTROLLER KIT - 1830 R14.0.8 ECN
3KC71294EF	MEC2L COMTROLLER KIT - R22.12 ECN
3KC71384AA	MSH8A UNI TO BIDIRECTNL SHUFFLE ADAPTOR
3KC71429AAAA	ESWL-S2AD200R UNIDIR REGEN MODE MONTH
3KC71462AA	IR4 4D INTEGRATED ROADM
3KC71473AAAA	SWP-1830 PSS ECE R13.1.0
3KC71475AAAA	SWPL-1830 PSS ECE R13.1.0
3KC71513AA	MPO-4LC PR FANOUT CBL SM ANSI/ETSI 3.5M
3KC71593AAAA	SWPL-1830 PSS SWDM R14.0.0
3KC71596AAAA	SWP-1830 PSS SWDM R14.0.0 KIT
3KC71644AA	ASC2 AMPLIFIED 1X2 SPLITTER/COMBINER
3KC71803AAAA	SWP-1830 PSS SWDM R14.0.8 KIT
3KC71808AAAA	SWPL-1830 PSS SWDM R14.0.8
3KC71811AAAA	SWP-1830 PSS ECN R14.0.8
3KC71813AAAA	SWPL-1830 PSS ECN R14.0.8
3KC71830AA	SFD48 48-CH OPTICAL MUX/DMUX 100GHZ
3KC71831AA	SFD64 64-CH OPTICAL MUX/DMUX 75GHZ
3KC71849AA	SFD 48-64 2RU COVER KIT
3KC71850AA	SFD48-64 2RU INSTALLATION KIT
3KC71932AAAA	SWP-1830 PSS SWDM R14.0.1 KIT
3KC71980AAAA	SWPL-1830PSS SWDM R14.0.2
3KC71985AAAA	SWP-1830PSS SWDM R14.0.2 KIT
3KC72009AAAA	SWPL-1830PSS SWDM R14.0.9
3KC72020AAAA	SWP-1830PSS SWDM R14.0.9 KIT
3KC72037AAAA	SWP-1830 PSS SWDM R22.12.00 KIT
3KC72053AAAA	SWPL-1830 PSS SWDM R22.12.00
3KC72057AAAA	SWP-1830 PSS ECN R22.12.00
3KC72059AAAA	SWPL-1830 PSS ECN R22.12.00
3KC73611AAAA	ESWL-WSNOC ENHANCED DB 4VCPU
3KC73612AAAA	ESWL-WSNOC 2 CPU EMBEDDED OS ENHANCEMENT
3KC73640AAAA	ESWL WSNOC STANDARD LP

3KC73641AAAA	ESWL WSNOC HIGH AVAILABILITY LP
3KC73716AAAA	ESWL-NFM-T 20 APPLICATION ONLY BASE LIC
3KC73725AAAA	ESWL-WSS BASE LICENSE
3KC73785AAAA	ESWL-NFM-T 21 APPLICATION ONLY BASE LIC
3KC73787AAAA	ESWL-OTDR BASE LICENSE
3KC73807AAAA	ESWL-WSNOC HA REVERSE PROXY
3KC73809AAAA	ESWL-WSNOC 22 APPLICATION ONLY BASE LIC
3KC73810AAAA	ESWL-WSNOC22 APP PLUS EMBEDDED OS BASELIC
3KC73841AAAA	ESWL-WSNOC APP PLUS EMBEDDED OS BASELIC
3KC73842AAAA	ESWL-WSNOC APPLICATION ONLY BASE LIC
3KC76610AAAA	ESWL-WSRC - SRS
3KC76611AAAA	WSRC -SRS (NAR ONLY)
3KC76617AAAA	ESWL-WSRC STANDARD TRANSPORT LP
3KC76635AAAA	ESWL-NRC-T 20 STANDARD BASE
3KC76651AAAA	ESWL-NRC-T 21 STANDARD BASE
3KC76657AAAA	ESWL-WSRC 22 STANDARD BASE
3KC76658AAAA	ESWL-WSRC 22 MULTIVENDOR BASE
3KC76659AAAA	ESWL-WSRC MULTIVENDOR TRANSPORT LP
3KC76662AAAA	ESWL WSRC OTC BASE
3KC76663AAAA	ESWL WSRC OTC LP
3KC76666AAAA	ESWL-WSRC STANDARD BASE
3KC76667AAAA	ESWL-WSRC MULTIVENDOR BASE
3KC79118AAAA	ESWP-1830 SMS R23.7.0
3KC79119AAAA	ESWP-1830 SMS R23.7.0 MIGRATION TOOL
3KC79836AAAA	ESWL WAVEHUB LABS WAS AND DPA
3KC81709AA	FANM - PSI-M FAN ASSEMBLY
3KC81741AA	DA2C4 100G/200G MODULE
3KC81764AB	CA-PSI DC POWER CABLE (4M)
3KC81770BA	PSI-M SHELF KIT (1XMEC2 5XFANM 0XBLANK)
3KC81775AC	MEC2L - EQUIPT CONTROLLER HP - PSI-L
3KC81780AA	PSI-M SLOT BLANK
3KC81791AA	PSI-M SHELF CHASSIS
3KC81830AA	KIT-EXT MNTG BRKTS 24-36IN MNTG RANGE
3KC81868AA	DA2C4E 100G/200G MODULE WITH ENCRYPTION
3KC81890AB	DFC12 TERRESTRIAL UNRESTRICTED 500G
3KC81972AA	MEC2 - PSI-M EQUIPMENT CONTROLLER KIT
3KC82061AA	M-BLANK2 PSI-M DOUBLE WIDE BLANK
3KC82081AB	DFC12E ENCRYPTION UNRESTRICTED
3KC82113AA	DD2M4 TERRESTRIAL UNRESTRICTED
3KC82154AB	DFC12 SUBSEA UNRESTRICTED
3KC82163AA	DFM6 TERRESTRIAL UNRESTRICTED
3KC82212AA	SFM6 TERRESTRIAL UNRESTRICTED
3KC82212AB	SFM6 SUBSEA UNRESTRICTED
3KC82256AAAA	SWP-1830 PSI-M R6.0.0
3KC82258AAAA	SWPL-1830 PSI-M R6.0.0
3KC82315AA	SQX10 - 10X10G MUX MODULE
3KC82356AAAA	SWP-1830 PSI-M R6.0.8
3KC82358AAAA	SWPL-1830 PSI-M R6.0.8
3KC82418AAAA	SWP-1830 PSI-M R22.12
3KC82420AAAA	SWPL-1830 PSI-M R22.12
3KC82422AAAA	SWP-1830 PSI-M ECN R22.12
3KC82424AAAA	SWPL-1830 PSI-M ECN R22.12
3KC82437AAAA	SWP-1830 PSI-M R6.0.9
3KC82439AAAA	SWPL-1830PSI-M R6.0.9
3KC86208AAAA	SWP 1830PSI-MC R22.02

3KC86208ABAA	SWP 1830PSI-MC R22.02.01
3KC86210AAAA	SWPL 1830PSI-MC R22.02
3KC86714AB	WAVELITE METRO 200 AND F2B FAN
3KC86715AB	WAVELITE METRO 200 W/ OPS AND F2B FAN
3KC86716AB	WAVELITE ACCESS 200 AND F2B FAN
3KC86718AB	WAVELITE MUX 16 ENH WITH OPS AND FAN
3KC86719AB	WAVELITE MUX 16 ENH AND FAN
3KC86720AA	WAVELITE AMPLIFIER AND FAN
3KC86722AA	RACK MOUNTING KIT-23 IN
3KC86723AA	RACK MOUNTING KIT-19 IN
3KC86724AB	WAVELITE DC PSU 400W F2B
3KC86725AB	WAVELITE AC PSU 400W F2B
3KC86726AA	WAVELITE DC PSU 120W
3KC86727AA	WAVELITE AC PSU 120W
3KC86728AA	AC POWER CABLE - IEC 60320 C5-C14
3KC86731AA	AC POWER CABLE-NORTH AMERICA 3M
3KC86732AA	AC POWER CABLE-ISRAEL 3M
3KC86735AB	FAN UNIT WAVELITE METRO/ACCESS 200 F2B
3KC86736AA	FAN UNIT WAVELITE METRO 20/AMP/MUX16
3KC86737AAAA	ESWL-CLIENT SFP/ SFP+
3KC86738AAAA	ESWL-CLIENT QSFP+
3KC86739AAAA	ESWL-CLIENT QSFP28
3KC86741AAAA	ESWL-WL ACCESS 200 CAPACITY INCR TO 200G
3KC86742AAAA	ESWL-ENCRYPTION
3KC86744AAAA	ESWL-WAVELITE METRO 200
3KC86745AAAA	ESWL-WAVELITE ACCESS 200
3KC86747AAAA	ESWL-WAVELITE MUX 16
3KC86748AAAA	ESWL-WAVELITE AMPLIFIER
3KC86755AA	AC POWER CABLE - IEC 60320 C5-C20
3KC86758AAAA	ESWL-WL ACCESS 200 SNCP PROT ACTIVATION
3KC86766AA	BREAK-OUT CABLE MMF 5M QSFP+/4XSFP+
3KC86774AAAA	ESWP-WL METRO/ACCESS 200 R01.01.00
3KC86774ABAA	ESWP-WL METRO/ACCESS 200 R01.01.01
3KC86776AAAA	ESWP-WL METRO 20 R01.01.00
3KC86778AAAA	ESWP-WL MUX 16/AMPLIFIER R01.01.00
3KC86780AA	BLANK FOR PSU 120W WL METRO20/MUX16/AMP
3KC86781AB	BLANK FOR PSU 400W F2B
3KC86795AA	AC POWER CABLE - BRAZIL
3KC86796AA	BREAK-OUT CABLE SMF 5M QSFP+ TO 4xSFP+
3KC86798AA	AC SURGE SUPPRESSOR PROTECTIVE DEVICE
3KC86800ABAA	ESWP-WL METRO/ACCESS 200 R01.02.01
3KC86800ADAA	ESWP-WL METRO/ACCESS 200 R01.02.03
3KC86807AAAA	ESWP-WL MUX 16/AMPLIFIER R01.02.00
3KC86807ABAA	ESWP-WL MUX 16/AMPLIFIER R01.02.01
3KC86813AA	SLIDING RAIL RACK MOUNTING KIT
3KC86822AA	Y-CABLE ADD/DROP OSC 1510NM 2.0M SMF
3KC86823AAAA	ESWP-WL METRO/ACCESS 200 R01.03.00
3KC86823ACAA	ESWP-WL METRO/ACCESS 200 R01.03.02
3KC86845ABAA	ESWP-WL METRO/ACCESS 200 R02.00.01
3KC86846ABAA	ESWP-WL METRO/ACCESS 200 R02.01.01
3KC90213AA	PSILMFC MULTI-FUNCTION CARD PSI-L
3KC90235BA	PSI-4L 4-SLOT CHASSIS
3KC90259AA	PSI-L FAN
3KC90291AA	PSI-L 8-SLOT SHELF KIT
3KC90291BA	PSI-4L 4-SLOT SHELF KIT

3KC90297AA	PSILPFDC - DC POWER SUPPLY PSI-L
3KC90300AA	PSI-L MEC2 CONTROLLER BLANK
3KC90320AA	PSI-L 8-SLOT CABLE BRACKET ASSEMBLY
3KC90321AB	PSI-L FRONT COVER
3KC90328AA	PSI-L POWER SUPPLY BLANK
3KC90374AA	PSI-L 8L 19IN 2-POST EIA INSTALLATION KI
3KC90374BA	KIT, PSI-4L INSTALLATION, 19IN MID MOUNT
3KC90375AA	PSI-L 8L 23IN RACK INSTALLATION KIT
3KC90375BA	KIT, PSI-4L INSTALLATION 23IN MID MOUNT
3KC90395AA	PSILPFAC - AC POWER SUPPLY PSI-L
3KC91737AE	32EC2 CONTROLLER KIT OLS R5.0.1
3KC91737AF	32EC2 CONTROLLER KIT - OLS R5.1
3KC91737AH	32EC2 CONTROLLER KIT - OLS R5.2
3KC91738AF	MEC2L CONTROLLER KIT OLS R5.1
3KC91738AH	MEC2L CONTROLLER KIT - OLS R5.2
3KC93809AA	C2DCO4-100-400G CFP2 DCO COHERENT MODULE
3KC93815AA	BMDCO6 - 600G OBM DCO COHERENT MODULE
3KC93830AC	CSTAR2P COHERENT SILICON TX/RX GEN2 200G
3KC93831AF	CSTAR4M - COH SILICON TX/RX 400G METRO
3KC94097AAAA	ESWP-SUBSYSTEMS R02.00.00 C2DCO4 FW
3KC94098AAAA	ESWP-SUBSYSTEMS R02.00.00 BMDCO6X FW
3KC94189AAAA	ESWP-SUBSYSTEMS R2.2 C2DCO4 FW
3KC94190AAAA	ESWP-SUBSYSTEMS R2.2 BMDCO6X FW
3KC94315AA	PSI-CL -48V DC POWER SUPPLY UNIT
3KC94316AA	PSI-CL 110/220V AC 240V DC POWER SUPPLY
3KC94317AA	PSI-CL SLOT BLANK
3KC94318AA	PSI-CL FAN UNIT
3KC94319AA	PSI-CL MAIN CONTROL UNIT
3KC94320AA	INSTALLATION KIT FOR 23 INCH EIA RACK
3KC94321AA	TRAY FOR 19 INCH EIA RACK 4-POST INSTALL
3KC94322AA	TERMINAL OPT AMPLIFIER HIGH GAIN 22-32DB
3KC94323AA	IN-LINE AMPLIFIER AT HIGH GAIN 22-32DB
3KC94324AA	IN-LINE AMPLIFIER AT LOW GAIN 15-25DB
3KC94325AA	OPTICAL FIBER LINE PROTECTION ONE PORT
3KC94326AA	OPTICAL FIBER LINE PROTECTION MULTIPORT
3KC94327AA	48CH MUX/DMX 100GHZ SPACING
3KC94328AA	64CH MUX/DMX 75GHZ SPACING(196.0875THZ)
3KC94329AA	64CH MUX/DMX 75GHZ SPACING (196.0375THZ)
3KC94330AA	96CH MUX/DMX 50GHZ SPACING
3KC94331AA	48CH MUX INSTALL KIT FOR 23IN EIA RACK
3KC94332AA	48W/64/96CH MUX INST KIT 23IN ANSI RACK
3KC94333AAAA	ESWP-1830 PSI-CL R01.00.00
3KC94334AA	TERMINAL OPT AMPLIFIER LOW GAIN 15-25DB
3KC94335AA	PSI-CL 2RU CHASSIS WITH 4 SLOTS
3KC94337AA	48V DC POWER CABLE WITH 3M
3KC94340AA	TRAY FOR 19 INCH EIA RACK 2-POST INSTALL
3KC94355AA	WIDE BANDWIDTH 48CH MUX/DMX 100GHZ
3KC94363AAAA	ESWP-1830 PSI-CL R01.02.03
3KC94814AAAA	ESWP-DIRECTLINK R01.01.00 NE
3KC95005AAAA	ESWL-WSO - TRANSPORT - SRS
3KC95006AAAA	WSO - TRANSPORT SRS (NAR ONLY)
3KC95007AAAA	ESWL-WSO STANDARD TRANSPORT LP
3KC95008AAAA	ESWL-WSO 20 STANDARD BASE
3KC95014AAAA	ESWL-WSO 21 STANDARD BASE
3KC95018AAAA	ESWL WSO 22 STANDARD BASE

3KC95019AAAA	ESWL WSO L0 REST BASE INC 100DEGHW
3KC95020AAAA	ESWL WSO L0 REST GREATER THAN 100 DEG HW
3KC95025AAAA	ESWL-WSO STANDARD BASE
3TD00011AA	XPSF8 PSS-8X POWER SUPPLY FILTER
3TD00014AA	XMFC - MULTI FUNCTION CARD
3TD00019AA	20MX80 - 20 X 10/SUB 10G CLIENT
3TD00026AA	20AX200 - 20 X 10G CLIENT/UPLINK
3TD00030AA	XCEC8-CLOCK AND EQUIPMENT CONTROL PSS-8X
3TD00055AA	XST1T6 - 1.6T OTN SWITCH FABRIC
3TD00070AA	XFAN8 - FAN MODULE PSS-8X
3TD00072AA	PSS8X - SHELF PSS-8X
3TD00123AA	IOC-BLANK
3TD00124AB	XTIC-BLANK
3TD00128AA	XSSC - SHELF SENSOR CARD
3TD00287AA	PSS12X - SHELF PSS-12X
3TD00343AA	IO SLOT DIVIDER
3TD00358AA	PSS-8X SHELF KIT
3TD00451AA	XFAN12 - FAN MODULE PSS-12X
3TD00470AA	DUST FILTER SPARE PART PSS-8X
3TD00483AA	XST4T8 - 4.8T OTN SWITCH FABRIC
3TD00493AA	2UX200 - 2X100G / 1X200G COHERENT UPLINK
3TD00528AA	PSS-12X SLOT DIVIDER TOOL
3TD00555AA	XCEC12 - CLOCK AND EQUIP CONTROL PSS-12X
3TD00579AA	4MX200 - 2X 100G/4X 40G CLIENT
3TD00626AAAA	ESWL-RTU LIC 1830PSS-8X 100G CAP
3TD00627AAAA	ESWL-RTU LIC 1830PSS-8X 100G CAP GMRE
3TD00664AA	PSS-12X SHELF KIT
3TD00742AA	DUST FILTER SPARE PART PSS-12X
3TD00836AA	2UX500 2X200G/250G/1X300G/400G UPLINK
3TD00843AA	5MX500-5x100G/2x200GbE/1x400GbE Client
3TD00897AA	XST12T - 12T OTN SWITCH FABRIC
3TD00900AA	XST4T - 4T OTN SWITCH FABRIC
3TD09057AA	XPSF8H - PWR SUPPLY FLTR PSS-8x HP 70A
3TD09066AA	PSS8X - SHELF KIT PSS-8X HP
3TD10013AA	RACK LAMP OUT RALED
3TD10014AA	RACK LAMPS DAISY CHAIN CABLE
3TD10021AA	AIR INLET ANSI PSS-8X
3TD10023AA	CA - HK IN/OUT LENGHT 10 METERS
3TD10023AB	CA - HK IN/OUT LENGHT 30 METERS
3TD10025AA	XPSF12 PSS-12X POWER SUPPLY FILTER
3TD10030AA	CA - REMOTE ALARM CABLE
3TD10040AA	ANSI SNBF RACK KIT 23IN PSS8X
3TD10041AA	ANSI SHELF KIT (MECHA) PSS-8X
3TD10064AA	PSS-8X EIA SHELF INST KIT 19 INCHES
3TD10065AA	PSS-8X EIA AIR BAFFLE KIT 19 INCHES
3TD10078AA	KIT- EIA FRONT COVER KIT 19 INCHES
3TD10126AA	ANSI SHELF KIT (MECHA) PSS-12X
3TD10285AA	PSS- 8X ANSI AIR BAFFLE KIT
3TD10299AA	PSS-8X EIA SHELF INST. KIT 19 IN 4-POST
3TD10302AA	PSS-8X EIA AIR BAFFLE KIT 19 IN 4-POST
3TD10319AA	PSS-8X EIA FRONT COVER KIT 19 IN 4-POST
8DG08361AC	CA-INVENTORY CABLE(NAR) (0.92M),SHIELDED
8DG08381AAAA	SFP / XFP EXTRACTOR
8DG09119AAAA	DOOR ASSEMBLIES
8DG09195AA	ALARM PANEL

8DG09811AA	HSLADA-HALF SLOT ADAPTER
8DG43056AAAA	ESWL-1350OMS -WSNOC - SRS
8DG43280AAAA	1350OMS -WSNOC - SRS (NAR ONLY)
8DG59240AA	USER INTERFACE PANEL
8DG59242BA	DC POWER FILTER (70A) W/ V MONITORING
8DG59242BB	DC POWER FILTER (50A) W/ V MONITORING
8DG59242BC	DC POWER FILTER (30A) W/ V MONITORING
8DG59242BD	DC POWER FILTER (20A) W/ V MONITORING
8DG59242BE	DC POWER FILTER (60A) W/ V MONITORING
8DG59243AB	HIGH POWER PSS-32 FAN TRAY
8DG59245AB	AHPHG - HPOWER HGAIN DWDM AMPLIFIER
8DG59247AA	ENHANCED OPTICAL PROTECTION SWITCH PACK
8DG59248AA	44 CHANNEL OPTICAL MUX/DEMUX
8DG59319AB	CENTRALOFFICESHELF-PSS32,325MMDEPTH(Z25)
8DG59320AA	AIR FILTER
8DG59348AA	CO SHELF COVER - LARGE -(PSS-32)
8DG59354AA	USER PANEL BLANK
8DG59417AA	KIT-DCM SHELF KIT (19 INCH EIA)
8DG59418AA	FULL SLOT BLANK
8DG59419AA	HALF SLOT BLANK
8DG59420AA	EQUIPMENT CONTROLLER BLANK
8DG59421AA	TIMING INTERFACE BLANK
8DG59423AA	DCM - SMF 10KM
8DG59424AA	DCM - SMF 20KM
8DG59425AA	DCM - SMF 30KM
8DG59426AA	DCM - SMF 40KM
8DG59427AA	DCM - SMF 50KM
8DG59428AA	DCM - SMF 60KM
8DG59429AA	DCM - SMF 70KM
8DG59430AA	DCM - SMF 80KM
8DG59431AA	DCM - SMF 90KM
8DG59432AA	DCM - SMF 100KM
8DG59433AA	DCM - SMF 110KM
8DG59434AA	DCM - SMF 120KM
8DG59435AA	DCM - SMF 130KM
8DG59436AA	DCM - SMF 140KM
8DG59437AA	STATIC FILTER DWDM 5 CHANNEL (A
8DG59437AB	STATIC FILTER DWDM 5 CHANNEL (B
8DG59437AC	STATIC FILTER DWDM 5 CHANNEL (C
8DG59437AD	STATIC FILTER DWDM 5 CHANNEL (D
8DG59437AE	STATIC FILTER DWDM 5 CHANNEL (E
8DG59437AF	STATIC FILTER DWDM 5 CHANNEL (F
8DG59437AG	STATIC FILTER DWDM 5 CHANNEL (G
8DG59437AH	STATIC FILTER DWDM 5 CHANNEL (H
8DG59441AA	STATIC FILTER CWDM 4 CHANNEL (A
8DG59441AB	STATIC FILTER CWDM 4 CHANNEL (B
8DG59442AA	STATIC FILTER CWDM 8 CHANNEL
8DG59451BA	CA-POWER CABLE, RED
8DG59451BB	CA-POWER CABLE, BLUE
8DG59518AB	FLEX SHELF COVER
8DG59535AA	CO SHELF BAFFLE COVER - (PSS-32)
8DG59602AA	KIT-EIA FLEX SHELF KIT (19 INCHS EIA)
8DG59602AB	KIT-FLEX SHELF (23 INCH ANSI WECCO)
8DG59603AA	KIT-OMD INSTALLATION KIT
8DG59604BA	INSTALL KIT PSS32 NAR(EIA/ANSI)W/ Z25 EX

8DG59613AA	KIT-TOOL KIT
8DG59614AA	MA-LC FIBER REMOVAL TOOL
8DG59720AAAA	ESWL-1830 PSS R1.0 SOFTWARE LICENSE FEE
8DG59723AAAA	ESWL-WDM BLADE LICENSE POINT FEE
8DG59724AA	FOADM INVENTORY CABLE ADAPTER
8DG59726AAAA	ESWL-TDM BLADE LICENSE POINT FEE
8DG59727AAAA	ESWL-PHOTONICS VERS (A) ETH LP
8DG59747AAAA	ESWL-1354 PHM R6.0 UPGRADE
8DG59841AA	88 CHANNEL INTERLEAVER
8DG59841AB	88 CHANNEL INTERLEAVER (UNIDIRECTIONAL)
8DG59857AA	44 CHANNEL OPTICAL MUX/DEMUX - 50GHZ OFF
8DG60017AAAA	ESWL-1830PSS EPT FIRST YEAR
8DG60018AAAA	ESWL-1830PSS EPT FOLLOWING YEAR
8DG60129AC	PSS32 EIA/NAR COVER EXTENDER KIT
8DG60130AA	OMD COVER KIT (EIA)
8DG60130AB	OMD COVER KIT (ANSI)
8DG60130AD	SFD 44 INSTALL KIT 19IN 4-POST W-COVER
8DG60131AA	DCM COVER KIT (EIA)
8DG60131AB	DCM COVER KIT (ANSI)
8DG60131AD	DCM SHELF COVER KIT 19IN 4-POST RACK
8DG60207AAAA	ESWL-1830 PSS WAVELENGTH TRACKER SOFTWARE
8DG60210AA	STATIC FILTER DWDM 8 CHANNEL (A VARIANT)
8DG60210AB	STATIC FILTER DWDM 8 CHANNEL - B VARIANT
8DG60210AC	STATIC FILTER DWDM 8 CHANNEL (C VARIANT)
8DG60210AD	STATIC FILTER DWDM 8 CHANNEL (D VARIANT)
8DG60568AA	MESH EXTENSION PACK (EXTERNAL COUPLER CA
8DG60788AA	PDU BRIDGING/JUMPER KIT
8DG60889AAAA	1830PSS R3.6 PRODUCTS CUSTOMER DOC CD
8DG60953AAAA	ESWL-1830 PSS APPLICATION WDM GMPLS
8DG60968AA	16GB EC FLASHCARD UPGRADE KIT (PSS-32)
8DG61092AAAA	ESWL-1830PSS SW LICENSE WAN ACCELERATION
8DG61218AAAA	ESWL-1830PSS 100GPAYG LIC CERTIFICATE 2P
8DG61285AB	11OPE8 -CARRIER ETH MUXOT, 8X10GBE/OTU2E
8DG61330AA	WTOCM-F WTOCM W/ FLEX CAPABILITY
8DG61406AA	MSH8-FSM MESH 8D FIBSHUF ANSI
8DG61406AC	MSH8-FSM MESH 8D FIBSHUF FOC
8DG61416AAAA	ESWL-KMT LICENSE PER WAVELENGTH
8DG61457AAAA	ESWL-ENCRYPTION LICENSE PER PORT
8DG61487AA	PSS-32 Z25 EXT. SHELF COVER
8DG61510AA	TAMPER RESISTANT LABEL KIT
8DG61581AA	11QCE12X-CARRIERETHRNTMUXOT4X10GBE/OTU2E
8DG62041AAAA	ESWL-1830PSS EPT PLUS USER 1YR
8DG62145AB	MAINSHELFKIT-PSS32,HC FAN,325MDEPTH(Z25)
8DG62146AB	EXTSHELF KIT-PSS32,HC FAN,325MDEPTH(Z25)
8DG62367AA	1RU INSTALLATION KIT
8DG62413AA	PSC1-6 - PASSIVE SPLITTER/COMBINER
8DG62423AA	1RU COVER KIT
8DG62445AB	IROADMV INTEGRATED ROADM BLADE W/ VG AMP
8DG62471AA	20P200 - 20X10G C/L PROGRAMMABLE CARD
8DG62474AA	MCS8-16 MULTICASTSWITCH 8-DEG 16-PORTS
8DG62496AA	A4PSWG HYBRID AMP 4 RP + SG EDFA
8DG62497AA	AAR-8A AMP ARRAY 8-AMPS
8DG62504AA	OTDR FOR FIBER CHARACTERIZATION
8DG62635AA	32EC2 - HP EQUIPMENT CONTROLLER
8DG62635CA	32EC2 - EQUIPT CONTROLLER EM - PSS16II

8DG62646AA	MPO CABLE NAR (3.5M)
8DG62646AB	MPO CABLE NAR (7M)
8DG62646AC	MPO CABLE NAR (10M)
8DG62646AD	MPO CABLE NAR (15M)
8DG62665AAAA	ESWL-RTU 260SCX2 200G MODE
8DG62666AAAA	ESWL-RTU 260SCX2 100G MODE
8DG62684AA	MSH8-FSM INSTALL KIT
8DG62685AA	MSH8-FSM COVER KIT
8DG62685AB	MSH8-FSM COVER KIT 19IN 4-POST RACK
8DG62693AA	MPO-10LC PR FANOUT CABLE MM ANSI 5M
8DG62734AA	MPO JUMPER (180MM) NAR - MCS TO AAR
8DG62734AB	MPO JUMPER (900MM) NAR - FOR DGE
8DG62736AA	MPO-APC LOOPBACK JUMPER
8DG62753AA	MON-OCM - LINE MONITOR USED W/WTOTCM
8DG62768AA	ANSI LC APC LOW-LOSS (FOR OTDR) 3.5M
8DG62768AB	ANSI LC APC LOW-LOSS (FOR OTDR) 7M
8DG62955AA	12CE120 - 12X10GBE/OTU2E/DWDM L2 CARD
8DG62993AB	1CE100Q - 1X100GBE L2 CARD
8DG63026AA	AWBILA WIDE BAND IN LINE AMPLIFIER
8DG63027AA	AWBING WIDE BAND INGRESS AMPLIFIER
8DG63028AA	AWBEGR WIDE BAND EGRESS AMPLIFIER
8DG63029AB	RASPB WB RAMAN AMP 5 PUMPS W/ BACK REF
8DG63043AAAA	ESWL-1830PSS PAYG 10GBPS EQUIV TPD10GEQ
8DG63044AAAA	ESWL-1830PSS PAYG 10GBPS TRFC LIC EQUIV
8DG63068AA	OTDRWB FOR FIBER CHARACTRZTION WIDE BAND
8DG63100AA	WR20TFML TWIN X20 W/ MPO CONNECTORS L-BA
8DG63101AA	MCS8-16L MULTICASTSWITCH 8DEG16 PORTS L-
8DG63102AA	WTOTCM-FL - WTOTCM W/ FLEX CAPABILITY L-BA
8DG63207AA	S13X100R 100G MUX//XPDR/UPLINK (REGIONAL
8DG63245BA	9CH TRANSLATION LINE UNIT(TLU-RACKMOUNT)
8DG63247BA	OPTICAL SUPERVISOR UNIT(OSU)
8DG63249BA	9CH PMU (UPPER BAND)
8DG63249BB	9CH PMU (LOWER BAND)
8DG63249BC	9CH PMU WITH POWER MONITORING(UPPERBAND)
8DG63249BD	9CH PMU WITH POWER MONITORING(LOWERBAND)
8DG63264AA	MON-OTDR SIGNAL FILTERING CARD
8DG63307AA	TLU/ OSU FAN UNIT
8DG63322AA	TLU/ OSU FAN DUST FILTER
8DG63365AA	MPO APC SHORT JUMPER-NAR,180MM
8DG63365AB	MPO APC SHORT JUMPER-NAR,900MM
8DG63365AC	MPO-MPO APC JUMPER-NAR (3.5M)
8DG63365AD	MPO-MPO APC JUMPER-NAR (7M)
8DG63365AE	MPO-MPO APC JUMPER-NAR (10M)
8DG63365AF	MPO-MPO APC JUMPER-NAR (15M)
8DG63365AG	CA-JUMPER MPO-MPO NAR 100M SM NON FOC
8DG63373AAAA	SINGLECODE/MULTIPLEQTY PACK INSTRUCTION
8DG63373ABAA	SINGLECODE/SINGLEQTY PACK INSTRUCTION
8DG63373ADAA	BUNDLED HARDWARE PACKAGING INSTRUCTIONS
8DG63526BA	4CH TLU/PMU UPPER BAND A (1471..1531)
8DG63526BB	4CH TLU/PMU UPPER BAND B (1551..1611)
8DG63526BC	4CH TLU/PMU LOWER BAND A (1271..1331)
8DG63526BD	4CH TLU/PMU LOWER BAND B (1351..1411)
8DG63541BA	1830VWM 1RU TYPE 1 19IN RACK MOUNT BRKT
8DG63541BC	1830VWM 1RU TYPE 1 23IN WECO RK MT BRKT
8DG63541BD	1830VWM 1RU TYPE 1 23IN EIA RK MT BRKT

8DG63541BE	PMU 19 IN RACK MOUNT
8DG63541BG	PMU 23IN EIA/WECO RACK MOUNT BRACKET
8DG63541CH	1830 VWM 1RU TYPE 2 19 IN RACK MNT BRCKT
8DG63541CK	1830 VWM 1RU TYPE 2 23IN WECO RK MNT BKT
8DG63541CL	1830 VWM 1RU TYPE 2 23IN EIA RK MNT BKT
8DG63560AA	TLU/PMU/OSU ETHERNET CABLE (SHORT)
8DG63561AA	TLU/PMU FIBER JUMPER (280MM)
8DG63561AB	OPT CABLE ASSY, SM, DUPLEX LC, 420MM
8DG63561AC	OPT CABLE ASSY, SM, DUPLEX LC, 1.4M
8DG63561AD	OPT CABLE ASSY, SM, DUPLEX LC, 3.5M
8DG63562AA	TLU/PMU FIBER JUMPER (230MM)
8DG63570AB	1830VWM TLU/PMU/OSU DC INTERCONT PWR CBL
8DG63582AAAA	ESWL-RTU 1UD200 200G MODE
8DG63585AA	OPSFLEX OPTCL PROT SWITCH FLEX GRID
8DG63616AA	DC POWER CABLE PSI
8DG63726AA	MSH4-FSB FLEX STACKABLE FIBSHUF
8DG63748AA	ATTENUATOR VALUE TBD UPON LINK TEST
8DG63767AA	AAR2X8A AMP ARRAY 8-AMPS 2XMCS
8DG63768AA	AAR2X8AL AMP ARRAY 8AMPS L-BAND 2XMCS
8DG63780AAAA	ESWL-RTU 100G CAP HIGH CAPACITY
8DG63781AAAA	ESWL-RTU 100G CAP EXTENDED REACH
8DG63824AA	4CH TLU/PMU BRACKET KIT(POLE/WALL)
8DG63829AA	4CH TLU/PMU CARRY HANDLE KIT
8DG63846AA	SUBBLLTX - SUB LINE LOADING TRANSMITTER
8DG63857AA	4CH TLU/PMU 12M AC NA POWER CABLE
8DG63858AA	4CH TLU/PMU 12M AC EU POWER CABLE
8DG63860AA	4CH TLU/PMU 12M DC POWER CABLE
8DG63873AB	CONNECTOR KIT,1830VWM FULLAXS EXTENDED
8DG63923AAAA	ESWL-1830VWM BLADE LICENSE POINT FEE
8DG63940AA	SUBBLLTX - FAN TRAY
8DG63941AA	SUBBLLTX - AIR FILTER
8DG63973AA	IROADM9R REGIONAL 9D ROADM SWG AMP
8DG63973AB	IROADM9R REGIONAL 9D ROADM SWG AMP LP
8DG63974AA	9CH TLU WITH MONITORING
8DG63988AA	S13X100E 100G MUX/ XPDR/ UPLINK (ENCRYPT
8DG64015AA	OPS OPTICAL SWITCHING MODULE (OSM)
8DG64029AA	OPTICAL PROTECTION SWITCH (OPS) SYESESST
8DG64098AA	12CE121 - 12X10GBE/1GBE L2 CARD
8DG64137AA	RA2P-96 2-PUMP RMN 96CH NO MID-STG ACCES
8DG64184AB	OTDRM -METRO OTDR FIBER CHARACTERIZATION
OEN02-01	CSTAR2 COHERENT SILICON TX/RX GEN1 200G

GLP (\$USD)	DISCOUNT	UNIT PRICE (\$USD)
\$ 192.00	50%	\$ 96.00
\$ 183.00	50%	\$ 91.50
\$ 192.00	50%	\$ 96.00
\$ 183.00	50%	\$ 91.50
\$ 183.00	50%	\$ 91.50
\$ 192.00	50%	\$ 96.00
\$ 192.00	50%	\$ 96.00
\$ 192.00	50%	\$ 96.00
\$ 183.00	50%	\$ 91.50
\$ 175.00	50%	\$ 87.50
\$ 192.00	50%	\$ 96.00
\$ 181.00	50%	\$ 90.50
\$ 192.00	50%	\$ 96.00
\$ 179.00	50%	\$ 89.50
\$ 184.00	50%	\$ 92.00
\$ 225.00	50%	\$ 112.50
\$ 99.00	50%	\$ 49.50
\$ 592.00	50%	\$ 296.00
\$ 34.00	50%	\$ 17.00
\$ 21.00	50%	\$ 10.50
\$ 32.00	50%	\$ 16.00
\$ 33.00	50%	\$ 16.50
\$ 34.00	50%	\$ 17.00
\$ 32.00	50%	\$ 16.00
\$ 65.00	50%	\$ 32.50
\$ 34.00	50%	\$ 17.00
\$ 211.00	50%	\$ 105.50
\$ 216.00	50%	\$ 108.00
\$ 262.00	50%	\$ 131.00
\$ 14.00	50%	\$ 7.00
\$ 145.00	50%	\$ 72.50
\$ 15.00	50%	\$ 7.50
\$ 11.00	50%	\$ 5.50
\$ 13.00	50%	\$ 6.50
\$ 273.00	50%	\$ 136.50
\$ 185.00	50%	\$ 92.50
\$ 236.00	50%	\$ 118.00
\$ 11.00	50%	\$ 5.50
\$ 12.00	50%	\$ 6.00
\$ 16.00	50%	\$ 8.00
\$ 12.00	50%	\$ 6.00
\$ 23.00	50%	\$ 11.50
\$ 19.00	50%	\$ 9.50
\$ 63.00	50%	\$ 31.50
\$ 113.00	50%	\$ 56.50
\$ 57.00	50%	\$ 28.50
\$ 162.00	50%	\$ 81.00

\$ 260.00	50%	\$ 130.00
\$ 34.00	50%	\$ 17.00
\$ 34.00	50%	\$ 17.00
\$ 34.00	50%	\$ 17.00
\$ 34.00	50%	\$ 17.00
\$ 34.00	50%	\$ 17.00
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\$ 34.00	50%	\$ 17.00
\$ 34.00	50%	\$ 17.00
\$ 34.00	50%	\$ 17.00
\$ 325.00	50%	\$ 162.50
\$ 382.00	50%	\$ 191.00
\$ 484.00	50%	\$ 242.00
\$ 781.00	50%	\$ 390.50
\$ 1,850.00	50%	\$ 925.00
\$ 369.00	50%	\$ 184.50
\$ 1,946.00	50%	\$ 973.00
\$ 366.00	50%	\$ 183.00
\$ 64.00	50%	\$ 32.00
\$ 189.00	50%	\$ 94.50
\$ 82.00	50%	\$ 41.00
\$ 197.00	50%	\$ 98.50
\$ 261.00	50%	\$ 130.50
\$ 79.00	50%	\$ 39.50
\$ 103.00	50%	\$ 51.50
\$ 286.00	50%	\$ 143.00
\$ 347.00	50%	\$ 173.50
\$ 165.00	50%	\$ 82.50
\$ 302.00	50%	\$ 151.00
\$ 398.00	50%	\$ 199.00
\$ 43.00	50%	\$ 21.50
\$ 46.00	50%	\$ 23.00
\$ 202.00	50%	\$ 101.00
\$ 386.00	50%	\$ 193.00
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\$ 440.00	50%	\$ 220.00
\$ 440.00	50%	\$ 220.00
\$ 440.00	50%	\$ 220.00
\$ 2,778.00	50%	\$ 1,389.00
\$ 2,779.00	50%	\$ 1,389.50
\$ 2,783.00	50%	\$ 1,391.50
\$ 2,775.00	50%	\$ 1,387.50
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\$ 2,775.00	50%	\$ 1,387.50
\$ 2,783.00	50%	\$ 1,391.50
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\$ 3,844.00	50%	\$ 1,922.00
\$ 3,859.00	50%	\$ 1,929.50
\$ 3,859.00	50%	\$ 1,929.50
\$ 3,859.00	50%	\$ 1,929.50
\$ 3,902.00	50%	\$ 1,951.00
\$ 2,082.00	50%	\$ 1,041.00
\$ 2,082.00	50%	\$ 1,041.00
\$ 2,082.00	50%	\$ 1,041.00
\$ 2,082.00	50%	\$ 1,041.00

\$ 2,082.00	50%	\$ 1,041.00
\$ 2,082.00	50%	\$ 1,041.00
\$ 2,082.00	50%	\$ 1,041.00
\$ 2,082.00	50%	\$ 1,041.00
\$ 3,347.00	50%	\$ 1,673.50
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\$ 3,113.00	50%	\$ 1,556.50
\$ 3,113.00	50%	\$ 1,556.50
\$ 3,347.00	50%	\$ 1,673.50
\$ 83.00	50%	\$ 41.50
\$ 86.00	50%	\$ 43.00
\$ 103.00	50%	\$ 51.50
\$ 593.00	50%	\$ 296.50
\$ 1,300.00	50%	\$ 650.00
\$ 650.00	50%	\$ 325.00
\$ 151.00	50%	\$ 75.50
\$ 609.00	50%	\$ 304.50
\$ 446.00	50%	\$ 223.00
\$ 429.00	50%	\$ 214.50
\$ 502.00	50%	\$ 251.00
\$ 546.00	50%	\$ 273.00
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\$ 4,488.00	50%	\$ 2,244.00
\$ 60.00	50%	\$ 30.00
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\$ 1,720.00	50%	\$ 860.00
\$ 1,330.00	50%	\$ 665.00
\$ 1,484.00	50%	\$ 742.00
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\$ 207.00	50%	\$ 103.50
\$ 168.00	50%	\$ 84.00
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\$ 3,810.00	50%	\$ 1,905.00
\$ 5,714.00	50%	\$ 2,857.00
\$ 1,289.00	50%	\$ 644.50
\$ 1,306.00	50%	\$ 653.00
\$ 2,776.00	50%	\$ 1,388.00
\$ 327.00	50%	\$ 163.50
\$ 321.00	50%	\$ 160.50
\$ 650.00	50%	\$ 325.00
\$ 862.00	50%	\$ 431.00
\$ 924.00	50%	\$ 462.00
\$ 1,151.00	50%	\$ 575.50
\$ 2,090.00	50%	\$ 1,045.00
\$ 3,837.00	50%	\$ 1,918.50
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\$ 100.00	50%	\$ 50.00
\$ 200.00	50%	\$ 100.00
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\$ 77.00	50%	\$ 38.50
\$ 103.00	50%	\$ 51.50
\$ 57.00	50%	\$ 28.50
\$ 62.00	50%	\$ 31.00
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\$ 35.00	50%	\$ 17.50
\$ 50.00	50%	\$ 25.00
\$ 280.00	50%	\$ 140.00
\$ 321.00	50%	\$ 160.50
\$ 329.00	50%	\$ 164.50
\$ 284.00	50%	\$ 142.00
\$ 285.00	50%	\$ 142.50
\$ 328.00	50%	\$ 164.00
\$ 332.00	50%	\$ 166.00
\$ 274.00	50%	\$ 137.00
\$ 285.00	50%	\$ 142.50
\$ 280.00	50%	\$ 140.00
\$ 338.00	50%	\$ 169.00
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\$ 5,120.00	50%	\$ 2,560.00
\$ 2,868.00	50%	\$ 1,434.00
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\$ 100.00	50%	\$ 50.00
\$ 100.00	50%	\$ 50.00
\$ 2,007.00	50%	\$ 1,003.50
\$ 4,200.00	50%	\$ 2,100.00
\$ 3,928.00	50%	\$ 1,964.00
\$ 2,119.00	50%	\$ 1,059.50
\$ 2,081.00	50%	\$ 1,040.50
\$ 2,082.00	50%	\$ 1,041.00

[illegible]

[illegible]

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\$ 1,510.00	50%	\$ 755.00
\$ 10,006.00	50%	\$ 5,003.00
\$ 4,779.00	50%	\$ 2,389.50
\$ 500.00	50%	\$ 250.00
\$ 1.00	50%	\$ 0.50
\$ 129.00	50%	\$ 64.50
\$ 57.00	50%	\$ 28.50
\$ 284.00	50%	\$ 142.00
\$ 544.00	50%	\$ 272.00
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\$ 1,677.00	50%	\$ 838.50
\$ 25.00	50%	\$ 12.50
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\$ 11,446.00	50%	\$ 5,723.00
\$ 82.00	50%	\$ 41.00
\$ 7,200.00	50%	\$ 3,600.00
\$ 1,060.00	50%	\$ 530.00
\$ 3,856.00	50%	\$ 1,928.00
\$ 910.00	50%	\$ 455.00
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\$ 115.00	50%	\$ 57.50
\$ 28.00	50%	\$ 14.00
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\$ 4,520.00	50%	\$ 2,260.00
\$ 297.00	50%	\$ 148.50
\$ 83.00	50%	\$ 41.50
\$ 115.00	50%	\$ 57.50
\$ 115.00	50%	\$ 57.50
\$ 281.00	50%	\$ 140.50
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\$ 115.00	50%	\$ 57.50
\$ 2,468.00	50%	\$ 1,234.00
\$ 735.00	50%	\$ 367.50
\$ 113.00	50%	\$ 56.50
\$ 715.00	50%	\$ 357.50
\$ 1,531.00	50%	\$ 765.50
\$ 1,518.00	50%	\$ 759.00
\$ 3,244.00	50%	\$ 1,622.00
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\$ 3,749.00	50%	\$ 1,874.50
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\$ 6,128.00	50%	\$ 3,064.00
\$ 23,541.00	50%	\$ 11,770.50
\$ 1,607.00	50%	\$ 803.50
\$ 3,072.00	50%	\$ 1,536.00
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\$ 4,030.00	50%	\$ 2,015.00
\$ 3,002.00	50%	\$ 1,501.00
\$ 8,322.00	50%	\$ 4,161.00
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\$ 9,734.00	50%	\$ 4,867.00

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\$ 11,770.00	50%	\$ 5,885.00
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\$ 117.00	50%	\$ 58.50
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\$ 10,634.00	50%	\$ 5,317.00
\$ 3,900.00	50%	\$ 1,950.00
\$ 3,362.00	50%	\$ 1,681.00
\$ 3,369.00	50%	\$ 1,684.50
\$ 3,359.00	50%	\$ 1,679.50
\$ 3,389.00	50%	\$ 1,694.50
\$ 3,385.00	50%	\$ 1,692.50
\$ 8,915.00	50%	\$ 4,457.50
\$ 77.00	50%	\$ 38.50
\$ 87.00	50%	\$ 43.50
\$ 75.00	50%	\$ 37.50
\$ 763.00	50%	\$ 381.50
\$ 875.00	50%	\$ 437.50
\$ 131.00	50%	\$ 65.50
\$ 308.00	50%	\$ 154.00
\$ 608.00	50%	\$ 304.00
\$ 269.00	50%	\$ 134.50
\$ 65.00	50%	\$ 32.50
\$ 51.00	50%	\$ 25.50
\$ 38.00	50%	\$ 19.00
\$ 148.00	50%	\$ 74.00
\$ 377.00	50%	\$ 188.50
\$ 535.00	50%	\$ 267.50
\$ 548.00	50%	\$ 274.00
\$ 888.00	50%	\$ 444.00
\$ 872.00	50%	\$ 436.00
\$ 816.00	50%	\$ 408.00
\$ 924.00	50%	\$ 462.00
\$ 1,041.00	50%	\$ 520.50
\$ 460.00	50%	\$ 230.00
\$ 987.00	50%	\$ 493.50
\$ 2,007.00	50%	\$ 1,003.50
\$ 551.00	50%	\$ 275.50
\$ 987.00	50%	\$ 493.50
\$ 2,007.00	50%	\$ 1,003.50
\$ 95.00	50%	\$ 47.50
\$ 372.00	50%	\$ 186.00
\$ 112.00	50%	\$ 56.00
\$ 160.00	50%	\$ 80.00
\$ 135.00	50%	\$ 67.50
\$ 2,160.00	50%	\$ 1,080.00
\$ 1,452.00	50%	\$ 726.00
\$ 3,709.00	50%	\$ 1,854.50
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\$ 138.00	50%	\$ 69.00

\$ 222.00	50%	\$ 111.00
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\$ 4,503.00	50%	\$ 2,251.50
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\$ 675.00	50%	\$ 337.50
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\$ 437.00	50%	\$ 218.50
\$ 307.00	50%	\$ 153.50
\$ 68.00	50%	\$ 34.00
\$ 90.00	50%	\$ 45.00
\$ 81.00	50%	\$ 40.50
\$ 80.00	50%	\$ 40.00
\$ 846.00	50%	\$ 423.00
\$ 611.00	50%	\$ 305.50
\$ 247.00	50%	\$ 123.50
\$ 191.00	50%	\$ 95.50
\$ 566.00	50%	\$ 283.00
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\$ 36,853.00	50%	\$ 18,426.50
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\$ 17,622.00	50%	\$ 8,811.00
\$ 226.00	50%	\$ 113.00
\$ 4,599.00	50%	\$ 2,299.50
\$ 49,065.00	50%	\$ 24,532.50
\$ 116,000.00	50%	\$ 58,000.00
\$ 63,205.00	50%	\$ 31,602.50
\$ 51,839.00	50%	\$ 25,919.50
\$ 1,455.00	50%	\$ 727.50
\$ 2,522.00	50%	\$ 1,261.00
\$ 7,500.00	50%	\$ 3,750.00
\$ 343.00	50%	\$ 171.50
\$ 7,000.00	50%	\$ 3,500.00
\$ 982.00	50%	\$ 491.00
\$ 781.00	50%	\$ 390.50
\$ 74.00	50%	\$ 37.00
\$ 83,735.00	50%	\$ 41,867.50
\$ 83,646.00	50%	\$ 41,823.00
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\$ 2,362.00	50%	\$ 1,181.00
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\$ 49,560.00	50%	\$ 24,780.00
\$ 18,900.00	50%	\$ 9,450.00
\$ 18,900.00	50%	\$ 9,450.00
\$ 56,100.00	50%	\$ 28,050.00
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\$ 27,000.00	50%	\$ 13,500.00
\$ 27,000.00	50%	\$ 13,500.00

\$ 242.00	50%	\$ 121.00
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\$ 450.00	50%	\$ 225.00
\$ 210.00	50%	\$ 105.00
\$ 651.00	50%	\$ 325.50
\$ 12,000.00	50%	\$ 6,000.00
\$ 28,909.00	50%	\$ 14,454.50
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\$ 200,262.00	50%	\$ 100,131.00
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\$ 3,036.00	50%	\$ 1,518.00
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\$ 43.00	50%	\$ 21.50
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\$ 39,780.00	50%	\$ 19,890.00
\$ 22,540.00	50%	\$ 11,270.00
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\$ 13,260.00	50%	\$ 6,630.00
\$ 104,448.00	50%	\$ 52,224.00
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\$ 2,390.00	50%	\$ 1,195.00
\$ 23,900.00	50%	\$ 11,950.00
\$ 3,760.00	50%	\$ 1,880.00
\$ 6,010.00	50%	\$ 3,005.00
\$ 377.00	50%	\$ 188.50
\$ 8,000.00	50%	\$ 4,000.00
\$ 139,313.00	50%	\$ 69,656.50
\$ 376.00	50%	\$ 188.00
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\$ 6,500.00	50%	\$ 3,250.00
\$ 6,500.00	50%	\$ 3,250.00
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\$ 97.00	50%	\$ 48.50
\$ 97.00	50%	\$ 48.50
\$ 150.00	50%	\$ 75.00
\$ 150.00	50%	\$ 75.00
\$ 150.00	50%	\$ 75.00
\$ 8,450.00	50%	\$ 4,225.00
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\$ 144,803.00	50%	\$ 72,401.50
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\$ 123,466.00	50%	\$ 61,733.00
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\$ 16,833.00	50%	\$ 8,416.50
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\$ 56,972.00	50%	\$ 28,486.00
\$ 56,972.00	50%	\$ 28,486.00
\$ 3,223.00	50%	\$ 1,611.50
\$ 1,826.00	50%	\$ 913.00
\$ 1,160.00	50%	\$ 580.00
\$ 4,060.00	50%	\$ 2,030.00
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\$ 40,600.00	50%	\$ 20,300.00
\$ 3,002.00	50%	\$ 1,501.00
\$ 30,020.00	50%	\$ 15,010.00
\$ 973.00	50%	\$ 486.50
\$ 778.00	50%	\$ 389.00
\$ 9,730.00	50%	\$ 4,865.00
\$ 7,780.00	50%	\$ 3,890.00
\$ 1,216.00	50%	\$ 608.00
\$ 973.00	50%	\$ 486.50
\$ 16,390.00	50%	\$ 8,195.00
\$ 12,160.00	50%	\$ 6,080.00
\$ 9,730.00	50%	\$ 4,865.00
\$ 6,010.00	50%	\$ 3,005.00
\$ 3,978.00	50%	\$ 1,989.00
\$ 2,254.00	50%	\$ 1,127.00
\$ 1,591.00	50%	\$ 795.50
\$ 1,432.00	50%	\$ 716.00
\$ 1,326.00	50%	\$ 663.00
\$ 20,020.00	50%	\$ 10,010.00
\$ 20,020.00	50%	\$ 10,010.00
\$ 4,720.00	50%	\$ 2,360.00
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\$ 17,680.00	50%	\$ 8,840.00
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\$ 3,002.00	50%	\$ 1,501.00
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\$ 472.00	50%	\$ 236.00
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\$ 1,160.00	50%	\$ 580.00
\$ 18,260.00	50%	\$ 9,130.00
\$ 12,890.00	50%	\$ 6,445.00
\$ 11,600.00	50%	\$ 5,800.00
\$ 973.00	50%	\$ 486.50
\$ 778.00	50%	\$ 389.00
\$ 9,730.00	50%	\$ 4,865.00
\$ 7,780.00	50%	\$ 3,890.00
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\$ 6,010.00	50%	\$ 3,005.00

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\$ 188,064.00	50%	\$ 94,032.00
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\$ 213,230.00	50%	\$ 106,615.00
\$ 190.00	50%	\$ 95.00
\$ 221.00	50%	\$ 110.50
\$ 273.00	50%	\$ 136.50
\$ 294.00	50%	\$ 147.00
\$ 189.00	50%	\$ 94.50
\$ 191.00	50%	\$ 95.50
\$ 192.00	50%	\$ 96.00
\$ 193.00	50%	\$ 96.50
\$ 115.00	50%	\$ 57.50
\$ 77.00	50%	\$ 38.50
\$ 134,029.00	50%	\$ 67,014.50
\$ 264,082.00	50%	\$ 132,041.00
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\$ 3,137.00	50%	\$ 1,568.50
\$ 3,429.00	50%	\$ 1,714.50
\$ 3,137.00	50%	\$ 1,568.50
\$ 3,429.00	50%	\$ 1,714.50
\$ 4,463.00	50%	\$ 2,231.50
\$ 640.00	50%	\$ 320.00
\$ 35,522.00	50%	\$ 17,761.00
\$ 115.00	50%	\$ 57.50
\$ 77.00	50%	\$ 38.50
\$ 369.00	50%	\$ 184.50
\$ 77.00	50%	\$ 38.50
\$ 115.00	50%	\$ 57.50
\$ 64,136.00	50%	\$ 32,068.00
\$ 115.00	50%	\$ 57.50
\$ 77.00	50%	\$ 38.50
\$ 115.00	50%	\$ 57.50
\$ 77.00	50%	\$ 38.50
\$ 5,056.00	50%	\$ 2,528.00
\$ 5,624.00	50%	\$ 2,812.00
\$ 323.00	50%	\$ 161.50
\$ 390.00	50%	\$ 195.00
\$ 115.00	50%	\$ 57.50
\$ 115.00	50%	\$ 57.50
\$ 115.00	50%	\$ 57.50
\$ 77.00	50%	\$ 38.50
\$ 115.00	50%	\$ 57.50
\$ 115.00	50%	\$ 57.50
\$ 77.00	50%	\$ 38.50
\$ 77.00	50%	\$ 38.50
\$ 77.00	50%	\$ 38.50
\$ 43,315.00	50%	\$ 21,657.50
\$ 4,745.00	50%	\$ 2,372.50
\$ 110.00	50%	\$ 55.00

\$ 22.00	50%	\$ 11.00
\$ 181,200.00	50%	\$ 90,600.00
\$ 23,100.00	50%	\$ 11,550.00
\$ 181,200.00	50%	\$ 90,600.00
\$ 23,100.00	50%	\$ 11,550.00
\$ 16,989.00	50%	\$ 8,494.50
\$ 181,200.00	50%	\$ 90,600.00
\$ 181,200.00	50%	\$ 90,600.00
\$ 181,200.00	50%	\$ 90,600.00
\$ 181,200.00	50%	\$ 90,600.00
\$ 1.00	50%	\$ 0.50
\$ 1.00	50%	\$ 0.50
\$ 110.00	50%	\$ 55.00
\$ 399,980.00	50%	\$ 199,990.00
\$ 399,980.00	50%	\$ 199,990.00
\$ 297,000.00	50%	\$ 148,500.00
\$ 700,000.00	50%	\$ 350,000.00
\$ 275.00	50%	\$ 137.50
\$ 55,000.00	50%	\$ 27,500.00
\$ 110.00	50%	\$ 55.00
\$ 297,000.00	50%	\$ 148,500.00
\$ 700,000.00	50%	\$ 350,000.00
\$ 1.00	50%	\$ 0.50
\$ 1.00	50%	\$ 0.50
\$ 1,208.00	50%	\$ 604.00
\$ 494.00	50%	\$ 247.00
\$ 20,829.00	50%	\$ 10,414.50
\$ 286.00	50%	\$ 143.00
\$ 13,591.00	50%	\$ 6,795.50
\$ 3,060.00	50%	\$ 1,530.00
\$ 427.00	50%	\$ 213.50
\$ 9,512.00	50%	\$ 4,756.00
\$ 96.00	50%	\$ 48.00
\$ 23,682.00	50%	\$ 11,841.00
\$ 202,130.00	50%	\$ 101,065.00
\$ 2,029.00	50%	\$ 1,014.50
\$ 719.00	50%	\$ 359.50
\$ 202,192.00	50%	\$ 101,096.00
\$ 50,750.00	50%	\$ 25,375.00
\$ 202,043.00	50%	\$ 101,021.50
\$ 204,818.00	50%	\$ 102,409.00
\$ 225,649.00	50%	\$ 112,824.50
\$ 259,496.00	50%	\$ 129,748.00
\$ 115.00	50%	\$ 57.50
\$ 77.00	50%	\$ 38.50
\$ 19,600.00	50%	\$ 9,800.00
\$ 77.00	50%	\$ 38.50
\$ 115.00	50%	\$ 57.50
\$ 77.00	50%	\$ 38.50
\$ 115.00	50%	\$ 57.50
\$ 77.00	50%	\$ 38.50
\$ 115.00	50%	\$ 57.50
\$ 77.00	50%	\$ 38.50
\$ 77.00	50%	\$ 38.50

\$ 77.00	50%	\$ 38.50
\$ 115.00	50%	\$ 57.50
\$ 53,000.00	50%	\$ 26,500.00
\$ 62,000.00	50%	\$ 31,000.00
\$ 29,000.00	50%	\$ 14,500.00
\$ 61,744.00	50%	\$ 30,872.00
\$ 53,168.00	50%	\$ 26,584.00
\$ 38,000.00	50%	\$ 19,000.00
\$ 40.00	50%	\$ 20.00
\$ 81.00	50%	\$ 40.50
\$ 761.00	50%	\$ 380.50
\$ 5,000.00	50%	\$ 2,500.00
\$ 400.00	50%	\$ 200.00
\$ 1,800.00	50%	\$ 900.00
\$ 150.00	50%	\$ 75.00
\$ 89.00	50%	\$ 44.50
\$ 98.00	50%	\$ 49.00
\$ 1,250.00	50%	\$ 625.00
\$ 500.00	50%	\$ 250.00
\$ 261.00	50%	\$ 130.50
\$ 261.00	50%	\$ 130.50
\$ 261.00	50%	\$ 130.50
\$ 2,609.00	50%	\$ 1,304.50
\$ 26,091.00	50%	\$ 13,045.50
\$ 1,044.00	50%	\$ 522.00
\$ 1,044.00	50%	\$ 522.00
\$ 783.00	50%	\$ 391.50
\$ 783.00	50%	\$ 391.50
\$ 103.00	50%	\$ 51.50
\$ 5,218.00	50%	\$ 2,609.00
\$ 560.00	50%	\$ 280.00
\$ 115.00	50%	\$ 57.50
\$ 115.00	50%	\$ 57.50
\$ 115.00	50%	\$ 57.50
\$ 115.00	50%	\$ 57.50
\$ 34.00	50%	\$ 17.00
\$ 1,135.00	50%	\$ 567.50
\$ 41.00	50%	\$ 20.50
\$ 560.00	50%	\$ 280.00
\$ 328.00	50%	\$ 164.00
\$ 115.00	50%	\$ 57.50
\$ 115.00	50%	\$ 57.50
\$ 115.00	50%	\$ 57.50
\$ 115.00	50%	\$ 57.50
\$ 1,411.00	50%	\$ 705.50
\$ 565.00	50%	\$ 282.50
\$ 115.00	50%	\$ 57.50
\$ 115.00	50%	\$ 57.50
\$ 115.00	50%	\$ 57.50
\$ 115.00	50%	\$ 57.50
\$ 4,888.00	50%	\$ 2,444.00
\$ 7,009.00	50%	\$ 3,504.50
\$ 1,382.00	50%	\$ 691.00
\$ 17,389.00	50%	\$ 8,694.50
\$ 15,701.00	50%	\$ 7,850.50

\$ 3,913.00	50%	\$ 1,956.50
\$ 203.00	50%	\$ 101.50
\$ 68.00	50%	\$ 34.00
\$ 243.00	50%	\$ 121.50
\$ 212.00	50%	\$ 106.00
\$ 383.00	50%	\$ 191.50
\$ 390.00	50%	\$ 195.00
\$ 385.00	50%	\$ 192.50
\$ 391.00	50%	\$ 195.50
\$ 854.00	50%	\$ 427.00
\$ 4,600.00	50%	\$ 2,300.00
\$ 4,600.00	50%	\$ 2,300.00
\$ 5,197.00	50%	\$ 2,598.50
\$ 3,429.00	50%	\$ 1,714.50
\$ 3,737.00	50%	\$ 1,868.50
\$ 65,090.00	50%	\$ 32,545.00
\$ 134,272.00	50%	\$ 67,136.00
\$ 29,184.00	50%	\$ 14,592.00
\$ 3,781.00	50%	\$ 1,890.50
\$ 115.00	50%	\$ 57.50
\$ 115.00	50%	\$ 57.50
\$ 115.00	50%	\$ 57.50
\$ 115.00	50%	\$ 57.50
\$ 2,193.00	50%	\$ 1,096.50
\$ 2,193.00	50%	\$ 1,096.50
\$ 94.00	50%	\$ 47.00
\$ 901.00	50%	\$ 450.50
\$ 4,307.00	50%	\$ 2,153.50
\$ 822.00	50%	\$ 411.00
\$ 1,253.00	50%	\$ 626.50
\$ 59,186.00	50%	\$ 29,593.00
\$ 37,499.00	50%	\$ 18,749.50
\$ 37,499.00	50%	\$ 18,749.50
\$ 4,307.00	50%	\$ 2,153.50
\$ 10,964.00	50%	\$ 5,482.00
\$ 8,140.00	50%	\$ 4,070.00
\$ 13,623.00	50%	\$ 6,811.50
\$ 13,623.00	50%	\$ 6,811.50
\$ 13,654.00	50%	\$ 6,827.00
\$ 85.00	50%	\$ 42.50
\$ 85.00	50%	\$ 42.50
\$ 115.00	50%	\$ 57.50
\$ 59,186.00	50%	\$ 29,593.00
\$ 6,304.00	50%	\$ 3,152.00
\$ 117.00	50%	\$ 58.50
\$ 744.00	50%	\$ 372.00
\$ 8,140.00	50%	\$ 4,070.00
\$ 115.00	50%	\$ 57.50
\$ 115.00	50%	\$ 57.50
\$ 1.00	50%	\$ 0.50
\$ 1.00	50%	\$ 0.50
\$ 200.00	50%	\$ 100.00
\$ 300,000.00	50%	\$ 150,000.00
\$ 300,000.00	50%	\$ 150,000.00
\$ 300,000.00	50%	\$ 150,000.00

\$ 60,400.00	50%	\$ 30,200.00
\$ 60,400.00	50%	\$ 30,200.00
\$ 300,000.00	50%	\$ 150,000.00
\$ 2,034.00	50%	\$ 1,017.00
\$ 1,848.00	50%	\$ 924.00
\$ 20,767.00	50%	\$ 10,383.50
\$ 16,444.00	50%	\$ 8,222.00
\$ 5,300.00	50%	\$ 2,650.00
\$ 5,781.00	50%	\$ 2,890.50
\$ 1,381.00	50%	\$ 690.50
\$ 15,131.00	50%	\$ 7,565.50
\$ 98.00	50%	\$ 49.00
\$ 97.00	50%	\$ 48.50
\$ 272.00	50%	\$ 136.00
\$ 33,219.00	50%	\$ 16,609.50
\$ 135.00	50%	\$ 67.50
\$ 24,090.00	50%	\$ 12,045.00
\$ 2,028.00	50%	\$ 1,014.00
\$ 462.00	50%	\$ 231.00
\$ 7,966.00	50%	\$ 3,983.00
\$ 31,110.00	50%	\$ 15,555.00
\$ 148.00	50%	\$ 74.00
\$ 6,235.00	50%	\$ 3,117.50
\$ 16,473.00	50%	\$ 8,236.50
\$ 12,960.00	50%	\$ 6,480.00
\$ 8,040.00	50%	\$ 4,020.00
\$ 44,098.00	50%	\$ 22,049.00
\$ 482.00	50%	\$ 241.00
\$ 35,844.00	50%	\$ 17,922.00
\$ 30,628.00	50%	\$ 15,314.00
\$ 11,450.00	50%	\$ 5,725.00
\$ 8,978.00	50%	\$ 4,489.00
\$ 2,636.00	50%	\$ 1,318.00
\$ 24,692.00	50%	\$ 12,346.00
\$ 51.00	50%	\$ 25.50
\$ 31.00	50%	\$ 15.50
\$ 286.00	50%	\$ 143.00
\$ 242.00	50%	\$ 121.00
\$ 584.00	50%	\$ 292.00
\$ 3,218.00	50%	\$ 1,609.00
\$ 247.00	50%	\$ 123.50
\$ 1,949.00	50%	\$ 974.50
\$ 2,094.00	50%	\$ 1,047.00
\$ 213.00	50%	\$ 106.50
\$ 132.00	50%	\$ 66.00
\$ 384.00	50%	\$ 192.00
\$ 6,533.00	50%	\$ 3,266.50
\$ 557.00	50%	\$ 278.50
\$ 545.00	50%	\$ 272.50
\$ 430.00	50%	\$ 215.00
\$ 1,470.00	50%	\$ 735.00
\$ 98.00	50%	\$ 49.00
\$ 38.00	50%	\$ 19.00
\$ 2,928.00	50%	\$ 1,464.00
\$ 1,120.00	50%	\$ 560.00

\$ 94.00	50%	\$ 47.00
CUSTOM		CUSTOM
CUSTOM		CUSTOM
\$ 1,283.00	50%	\$ 641.50
\$ 1,667.00	50%	\$ 833.50
\$ 1,649.00	50%	\$ 824.50
\$ 1,655.00	50%	\$ 827.50
\$ 1,893.00	50%	\$ 946.50
\$ 1,648.00	50%	\$ 824.00
\$ 2,339.00	50%	\$ 1,169.50
\$ 14,970.00	50%	\$ 7,485.00
\$ 6,316.00	50%	\$ 3,158.00
\$ 3,407.00	50%	\$ 1,703.50
\$ 8,129.00	50%	\$ 4,064.50
\$ 118.00	50%	\$ 59.00
\$ 628.00	50%	\$ 314.00
\$ 54.00	50%	\$ 27.00
\$ 280.00	50%	\$ 140.00
\$ 72.00	50%	\$ 36.00
\$ 80.00	50%	\$ 40.00
\$ 77.00	50%	\$ 38.50
\$ 22.00	50%	\$ 11.00
\$ 1,175.00	50%	\$ 587.50
\$ 1,178.00	50%	\$ 589.00
\$ 1,323.00	50%	\$ 661.50
\$ 1,544.00	50%	\$ 772.00
\$ 1,892.00	50%	\$ 946.00
\$ 2,040.00	50%	\$ 1,020.00
\$ 2,315.00	50%	\$ 1,157.50
\$ 2,314.00	50%	\$ 1,157.00
\$ 2,458.00	50%	\$ 1,229.00
\$ 2,542.00	50%	\$ 1,271.00
\$ 2,764.00	50%	\$ 1,382.00
\$ 2,936.00	50%	\$ 1,468.00
\$ 3,018.00	50%	\$ 1,509.00
\$ 3,301.00	50%	\$ 1,650.50
\$ 5,051.00	50%	\$ 2,525.50
\$ 4,834.00	50%	\$ 2,417.00
\$ 4,853.00	50%	\$ 2,426.50
\$ 4,834.00	50%	\$ 2,417.00
\$ 4,853.00	50%	\$ 2,426.50
\$ 4,991.00	50%	\$ 2,495.50
\$ 4,938.00	50%	\$ 2,469.00
\$ 4,945.00	50%	\$ 2,472.50
\$ 2,877.00	50%	\$ 1,438.50
\$ 2,964.00	50%	\$ 1,482.00
\$ 3,832.00	50%	\$ 1,916.00
\$ 403.00	50%	\$ 201.50
\$ 403.00	50%	\$ 201.50
\$ 727.00	50%	\$ 363.50
\$ 186.00	50%	\$ 93.00
\$ 630.00	50%	\$ 315.00
\$ 773.00	50%	\$ 386.50
\$ 49.00	50%	\$ 24.50
\$ 2,946.00	50%	\$ 1,473.00

\$ 170.00	50%	\$ 85.00
\$ 20.00	50%	\$ 10.00
\$ 4,000.00	50%	\$ 2,000.00
\$ 300.00	50%	\$ 150.00
\$ 181.00	50%	\$ 90.50
\$ 300.00	50%	\$ 150.00
\$ 100.00	50%	\$ 50.00
\$ 19,995.00	50%	\$ 9,997.50
\$ 3,735.00	50%	\$ 1,867.50
\$ 3,023.00	50%	\$ 1,511.50
\$ 3,431.00	50%	\$ 1,715.50
\$ 135,000.00	50%	\$ 67,500.00
\$ 33,750.00	50%	\$ 16,875.00
\$ 170.00	50%	\$ 85.00
\$ 259.00	50%	\$ 129.50
\$ 284.00	50%	\$ 142.00
\$ 467.00	50%	\$ 233.50
\$ 242.00	50%	\$ 121.00
\$ 319.00	50%	\$ 159.50
\$ 602.00	50%	\$ 301.00
\$ 5,150.00	50%	\$ 2,575.00
\$ 5,323.00	50%	\$ 2,661.50
\$ 5,332.00	50%	\$ 2,666.00
\$ 5,321.00	50%	\$ 2,660.50
\$ 5,745.00	50%	\$ 2,872.50
\$ 16,833.00	50%	\$ 8,416.50
\$ 232.00	50%	\$ 116.00
\$ 122.00	50%	\$ 61.00
\$ 200.00	50%	\$ 100.00
\$ 1,073.00	50%	\$ 536.50
\$ 19,744.00	50%	\$ 9,872.00
\$ 69,950.00	50%	\$ 34,975.00
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\$ 18,559.00	50%	\$ 9,279.50
\$ 42,143.00	50%	\$ 21,071.50
\$ 27,000.00	50%	\$ 13,500.00
\$ 4,300.00	50%	\$ 2,150.00
\$ 1,135.00	50%	\$ 567.50
\$ 157.00	50%	\$ 78.50
\$ 22,037.00	50%	\$ 11,018.50
\$ 270,000.00	50%	\$ 135,000.00
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\$ 11,522.00	50%	\$ 5,761.00
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\$ 2,190.00	50%	\$ 1,095.00
\$ 108.00	50%	\$ 54.00
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\$ 26,748.00	50%	\$ 13,374.00
\$ 27,283.00	50%	\$ 13,641.50
\$ 46,388.00	50%	\$ 23,194.00
\$ 24,909.00	50%	\$ 12,454.50
\$ 24,576.00	50%	\$ 12,288.00
\$ 3,961.00	50%	\$ 1,980.50
\$ 4,305.00	50%	\$ 2,152.50

\$ 417.00	50%	\$ 208.50
\$ 534.00	50%	\$ 267.00
\$ 607.00	50%	\$ 303.50
\$ 762.00	50%	\$ 381.00
\$ 121,500.00	50%	\$ 60,750.00
\$ 17,550.00	50%	\$ 8,775.00
\$ 260.00	50%	\$ 130.00
\$ 260.00	50%	\$ 130.00
\$ 264.00	50%	\$ 132.00
\$ 753.00	50%	\$ 376.50
\$ 416.00	50%	\$ 208.00
\$ 593.00	50%	\$ 296.50
\$ 251.00	50%	\$ 125.50
\$ 1,947.00	50%	\$ 973.50
\$ 43.00	50%	\$ 21.50
\$ 56.00	50%	\$ 28.00
\$ 25,721.00	50%	\$ 12,860.50
\$ 22,657.00	50%	\$ 11,328.50
\$ 37,203.00	50%	\$ 18,601.50
\$ 33,880.00	50%	\$ 16,940.00
\$ 37,435.00	50%	\$ 18,717.50
\$ 34,477.00	50%	\$ 17,238.50
\$ 6,433.00	50%	\$ 3,216.50
\$ 3,235.00	50%	\$ 1,617.50
\$ 30,349.00	50%	\$ 15,174.50
\$ 63,441.00	50%	\$ 31,720.50
\$ 34,442.00	50%	\$ 17,221.00
\$ 16,331.00	50%	\$ 8,165.50
\$ 61,130.00	50%	\$ 30,565.00
\$ 6,593.00	50%	\$ 3,296.50
\$ 6,646.00	50%	\$ 3,323.00
\$ 11,644.00	50%	\$ 5,822.00
\$ 12,592.00	50%	\$ 6,296.00
\$ 17,150.00	50%	\$ 8,575.00
\$ 17,200.00	50%	\$ 8,600.00
\$ 2,230.00	50%	\$ 1,115.00
\$ 749.00	50%	\$ 374.50
\$ 200.00	50%	\$ 100.00
\$ 279.00	50%	\$ 139.50
\$ 279.00	50%	\$ 139.50
\$ 270.00	50%	\$ 135.00
\$ 279.00	50%	\$ 139.50
\$ 376.00	50%	\$ 188.00
\$ 334.00	50%	\$ 167.00
\$ 898.00	50%	\$ 449.00
\$ 1.00	50%	\$ 0.50
\$ 1.00	50%	\$ 0.50
\$ 68.00	50%	\$ 34.00
\$ 13,166.00	50%	\$ 6,583.00
\$ 13,166.00	50%	\$ 6,583.00
\$ 13,166.00	50%	\$ 6,583.00
\$ 13,166.00	50%	\$ 6,583.00
\$ 320.00	50%	\$ 160.00
\$ 223.00	50%	\$ 111.50
\$ 363.00	50%	\$ 181.50

\$ 156.00	50%	\$ 78.00
\$ 156.00	50%	\$ 78.00
\$ 210.00	50%	\$ 105.00
\$ 150.00	50%	\$ 75.00
\$ 270.00	50%	\$ 135.00
\$ 61.00	50%	\$ 30.50
\$ 99.00	50%	\$ 49.50
\$ 41.00	50%	\$ 20.50
\$ 43.00	50%	\$ 21.50
\$ 45.00	50%	\$ 22.50
\$ 99.00	50%	\$ 49.50
\$ 68.00	50%	\$ 34.00
\$ 132,000.00	50%	\$ 66,000.00
\$ 6,317.00	50%	\$ 3,158.50
\$ 183.00	50%	\$ 91.50
\$ 6,517.00	50%	\$ 3,258.50
\$ 63.00	50%	\$ 31.50
\$ 28,001.00	50%	\$ 14,000.50
\$ 45,194.00	50%	\$ 22,597.00
\$ 240,000.00	50%	\$ 120,000.00
\$ 375,000.00	50%	\$ 187,500.00
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\$ 132,203.00	50%	\$ 66,101.50
\$ 624.00	50%	\$ 312.00
\$ 624.00	50%	\$ 312.00
\$ 624.00	50%	\$ 312.00
\$ 375.00	50%	\$ 187.50
\$ 270.00	50%	\$ 135.00
\$ 9,506.00	50%	\$ 4,753.00
\$ 259.00	50%	\$ 129.50
\$ 56,801.00	50%	\$ 28,400.50
\$ 56,722.00	50%	\$ 28,361.00
\$ 9,830.00	50%	\$ 4,915.00
\$ 43,305.00	50%	\$ 21,652.50
\$ 7,280.00	50%	\$ 3,640.00
\$ 16,640.00	50%	\$ 8,320.00
\$ 20,765.00	50%	\$ 10,382.50
\$ 17,623.00	50%	\$ 8,811.50
\$ 11,502.00	50%	\$ 5,751.00
\$ 7,173.00	50%	\$ 3,586.50



CODE / PN	PRODUCT / DESCRIPTION
3HE11811DA	NSP AUXILIARY DATABASE 1 TB
3HE11812DA	NSP 10K AA RESIDENTIAL SUBS
3HE11814DA	NSP 500 AA BUSINESS SUBS
3HE11815HA	NSP 22 EXTENDED NE S/W SUPPORT
3HE11815JA	NSP EXTENDED NE S/W SUPPORT
3HE13941AA	NSP LAB AS A SERVICE (LaaS) INSTANCE
3HE14159AA	CENTRALIZED LICENSE MANAGER (CLM)
3HE14513AA	NSP RHEL INSTANCE
3HE15892JA	NSP 22.6 APPLIANCE GREENFIELD SIMPLEX
3HE15892JB	NSP 22.6 APPLIANCE GREENFIELD DR
3HE15892KA	NSP 23.4 APPLIANCE GREENFIELD SIMPLEX
3HE15892KB	NSP 23.4 APPLIANCE GREENFIELD DR
3HE15893JA	NSP 22.6 APPLIANCE BROWNFIELD SIMPLEX
3HE15893JB	NSP 22.6 APPLIANCE BROWNFIELD DR
3HE15893KA	NSP 23.4 APPLIANCE BROWNFIELD SIMPLEX
3HE15893KB	NSP 23.4 APPLIANCE BROWNFIELD DR
3HE15895AA	NSP APPLIANCE LP
3HE15895AA	NSP APPLIANCE LP
3HE15895AA	NSP APPLIANCE LP
3HE15895AA	NSP APPLIANCE LP
3HE15895AA	NSP APPLIANCE LP
3HE15895AA	NSP APPLIANCE LP
3HE16003AA	NSP NETWORK INFRASTRUCTURE MANAGEMENT FP
3HE16004AA	NSP SERVICE ACTIVATION + CONFIG. FP
3HE16005AA	NSP SERVICE ASSURANCE FP
3HE16007AA	NSP NETWORK OPERATIONS ANALYTICS FP
3HE16008AA	NSP TRANSPORT SLICE OPERATIONS FP
3HE16009AA	NSP SOFTWARE DEVELOPMENT KIT
3HE16011AA	NSP WORKFLOW AUTOMATION ENGINE FP
3HE16012AA	NSP CONTROL + VISUALIZATION STARTER FP
3HE16013AA	NSP PATH CONTROL + OPTIMIZATION FP
3HE16014AA	NSP ENHANCED OPTIMIZATION FP
3HE16015AA	NSP SIMULATION FP
3HE16016AA	NSP IP CONTROL CLASS 1 NODE
3HE16017AA	NSP IP CONTROL CLASS 2 NODE
3HE16018AA	NSP IP CONTROL CLASS 3 NODE
3HE16019AA	NSP IP CONTROL CLASS 4 NODE
3HE16020AA	NSP MULTILAYER DISC. + VISUALIZATION FP
3HE16086AA	NSP APPLIANCE HA / DR LP
3HE16086AA	NSP APPLIANCE HA / DR LP
3HE16086AA	NSP APPLIANCE HA / DR LP
3HE16086AA	NSP APPLIANCE HA / DR LP
3HE16086AA	NSP APPLIANCE HA / DR LP
3HE16086AA	NSP APPLIANCE HA / DR LP
3HE16252CA	NSP 22 PLATFORM BASE
3HE16252DA	NSP PLATFORM BASE
3HE16253AA	NSP PRIVATE WIRELESS LICENSE POINT

3HE16254AA	NSP LICENSE POINT
3HE16255AA	NSP HIGH AVAILABILITY FP
3HE16256AA	NSP MULTILAYER CONTROL COORDINATION FP
3HE16258AA	NSP MULTILAYER CROSS DOMAIN LINK
3HE16259AA	NSP OPS + PROGRAMMING LAB - STANDALONE
3HE16260AA	NSP OPS + PROGRAMMING LAB - WITH HA
3HE16261AA	NSP RESOURCE CONTROL LAB
3HE16345AA	NSP AP: BROWNFIELD SERVICE DISCOVERY
3HE16346AA	NSP AP: E-LINE
3HE16347AA	NSP AP: E-LAN
3HE16348AA	NSP AP: C-LINE
3HE16349AA	NSP AP: L3 VPN
3HE16350AA	NSP AP: INTERNET ENHANCED SERVICE
3HE16351AA	NSP AP: COMPOSITE SERVICES
3HE16352AA	NSP AP: BANDWIDTH ON DEMAND
3HE16353AA	NSP AP: NE PROVISIONING - DAY 0
3HE16354AA	NSP AP: NE PROVISIONING - DAY 1
3HE16355AA	NSP AP: NE PROVISIONING - DAY 2
3HE16356AA	NSP AP: NE BACKUP
3HE16357AA	NSP AP: SERVICE MOVE - PORT/CARD
3HE16358AA	NSP AP: SERVICE MOVE - TUNNELS
3HE16359AA	NSP AP: CLOSED LOOP AUTOMATION
3HE16360AA	NSP AP: NE UPGRADE
3HE16361AA	NSP AP: FAULT AND NETWORK ASSURANCE
3HE16362AA	NSP AP: SERVICE SUPERVISION
3HE16663AA	NSP AP: TELEMETRY EXPORT ENABLEMENT
3HE16664AA	NSP AP: NETWORK PERFORMANCE MONITORING
3HE16666AA	NSP AP: LSP PATH PLACEMENT
3HE16668AA	NSP AP: PRE-PACKAGED REPORTS (N+S)
3HE16669AA	NSP AP: LSP ENHANCED PATH CONTROL
3HE16670AA	NSP AP: CUSTOM REPORTS (AD HOC)
3HE16673AA	NSP AP: PRE-PACKAGED REPORTS (AA)
3HE16674AA	NSP AP: CUSTOM REPORTS (SMALL)
3HE16674BA	NSP AP: CUSTOM REPORTS (MEDIUM)
3HE16674CA	NSP AP: CUSTOM REPORTS (LARGE)
3HE16675AA	NSP AP: IP OPTICAL TOPOLOGY DISCOVERY
3HE16676AA	NSP AP: OPTICAL AWARE IP ROUTING
3HE16677AA	NSP AP: IP OPTICAL DIVERSITY ANALYSIS
3HE16678AA	NSP AP: COORDINATED MAINTENANCE
3HE16679AA	NSP AP: FLOATING PORT RESTORATION
3HE16680AA	NSP AP: OPTICAL SERVICE PROVISIONING
3HE16681AA	NSP AP: WHAT-IF ANALYSIS
3HE16683AA	NSP AP: IP MV ADAPTOR FAMILY
3HE16683BA	NSP AP: OPTICAL MV ADAPTOR/CONTROLLER
3HE16684AA	NSP AP: AUTOMATION SERVICES - CUSTOM
3HE16685CA	NSP AP: LSS AND CARE
3HE16685DA	NSP AP: LSS AND CARE (NAR ONLY)
3HE16891AA	NSP AP: DEVELOPER TRAINING
3HE16980AA	NSP AP: DEVELOPER SUPPORT SERVICE STD.
3HE16980BA	NSP AP: DEVELOPER SUPPORT SERVICE PREM.
3HE16982AA	NSP AP: CUSTOM ALARM CORRELATION
3HE17440BA	NSP SERVER WITH RHEL 8
3HE17633AA	NSP AP: TRANSPORT SLICE ENABLEMENT
3HE17634AA	NSP AP: TRANSPORT SLICE MONITORING
3HE17636AA	NSP AP: 400ZR POINT TO POINT

3HE17637AA	NSP AP: ELASTIC IP + OPTICAL BANDWIDTH
3HE17638AA	NSP AP: pLTE PROVISIONING - D0
3HE18264AA	NSP MOBILE NETWORKS LICENSE POINT
3HE18330AA	ENC 1 YEAR TERM BASED SUBSCRIPTION
3HE18333AA	ENC DEPLOYMENT STANDARD
3HE18334AA	ENC DEPLOYMENT BESPOKE
3HE18335AA	ENC UPGRADE STANDARD
3HE18336AA	ENC UPGRADE BESPOKE
3HE19165AA	XNO DEPLOYMENT BESPOKE
3HE19167AA	XNO UPGRADE BESPOKE
3HE19299AA	NSP MULTILAYER 400ZR LINK
3HE19582AA	NSP 10K FIXED WIRELESS SUBSCRIBER

GLP (\$USD)	DISCOUNT	UNIT PRICE (\$USD)
\$ 13,000.00	50%	\$ 6,500.00
\$ 10,000.00	50%	\$ 5,000.00
\$ 20,000.00	50%	\$ 10,000.00
\$ 10,000.00	50%	\$ 5,000.00
\$ 10,000.00	50%	\$ 5,000.00
\$ 70.00	50%	\$ 35.00
No Charge	-	No Charge
\$ 1,500.00	50%	\$ 750.00
\$ 233,410.00	50%	\$ 116,705.00
\$ 317,200.00	50%	\$ 158,600.00
\$ 233,410.00	50%	\$ 116,705.00
\$ 317,200.00	50%	\$ 158,600.00
\$ 90,610.00	50%	\$ 45,305.00
\$ 133,200.00	50%	\$ 66,600.00
\$ 90,610.00	50%	\$ 45,305.00
\$ 133,200.00	50%	\$ 66,600.00
\$ 110.00	50%	\$ 55.00
\$ 110.00	50%	\$ 55.00
\$ 110.00	50%	\$ 55.00
\$ 110.00	50%	\$ 55.00
\$ 110.00	50%	\$ 55.00
\$ 110.00	50%	\$ 55.00
\$ 25.00	50%	\$ 12.50
\$ 25.00	50%	\$ 12.50
\$ 25.00	50%	\$ 12.50
\$ 25.00	50%	\$ 12.50
\$ 25.00	50%	\$ 12.50
\$ 400,000.00	50%	\$ 200,000.00
\$ 25.00	50%	\$ 12.50
\$ 100,000.00	50%	\$ 50,000.00
\$ 100,000.00	50%	\$ 50,000.00
\$ 100,000.00	50%	\$ 50,000.00
\$ 100,000.00	50%	\$ 50,000.00
\$ 3,000.00	50%	\$ 1,500.00
\$ 1,500.00	50%	\$ 750.00
\$ 500.00	50%	\$ 250.00
\$ 25.00	50%	\$ 12.50
\$ 100,000.00	50%	\$ 50,000.00
\$ 25.00	50%	\$ 12.50
\$ 25.00	50%	\$ 12.50
\$ 25.00	50%	\$ 12.50
\$ 25.00	50%	\$ 12.50
\$ 25.00	50%	\$ 12.50
\$ 25.00	50%	\$ 12.50
\$ 80,000.00	50%	\$ 40,000.00
\$ 80,000.00	50%	\$ 40,000.00
\$ 60.00	50%	\$ 30.00

[illegible]

Custom	-	-
Custom	-	-
Custom	-	-
Custom	-	-
Custom	-	-
Custom	-	-
Custom	-	-
Custom	-	-
Custom	-	-
Custom	-	-
Custom	-	-
\$ 500.00	50%	\$ 250.00
\$ 10,000.00	50%	\$ 5,000.00



IP Router - IPR SERVICES	
Part No	Description
INSTALLATION AND IMPLEMENTATION	
301091625	Program Management - Remote
301036679	Site Survey - OnSite
301036679	Engineering - Remote
301036786	Installation - OnSite (T&L not included)
301071387	Site Materials
RESIDENT ENGINEER	
3HE06254AA	NOC Engineer Support (ONSITE - 1 Month)
3HE09107AA	NOC Engineer Support (ONSITE - 1 Year)
3HE06627AA	Architecture Engineer Support (ONSITE - 1 Month)
3HE09108AA	Architecture Engineer Support (ONSITE - 1 Year)
3HE06628AA	NSP Engineer Support (ONSITE - 1 Month)
3HE09109AA	NSP Engineer Support (ONSITE - 1 Year)
FIELD CORRECTIVE MAINTENANCE	
3HE09054AA	Field Corrective Maintenance (FCM) 24x7x4HR
3HE09055AA	Field Corrective Maintenance (FCM) 8x5x4HR
3HE09056AA	Field Corrective Maintenance (FCM) 24x7xNBD
DESIGN & INTEGRATION SERVICES	
3HE06629AA	L2 wireline Design
3HE09367AA	L2 / L3 wireline / MWBH design
301094207	LTE Backhaul & Core Router Design and Integration
3HE06636AA	Network Design Consultation
3HE09043AA	Nuage Professional Services
3HE02934AA	NSP Integration - (Remote)
3HE09347AA	NSP Integration - (Onsite) - T&L not included
3HE06639AA	NSP SW Upgrade (Remote)
3HE04124AA	NSP SW Upgrade (Onsite) - T&L not included
3HE04256AA	NSP Operations Consulting
3HE06631AA	Network Integration 7x50 SR/ESS
3HE06632AA	Network Integration 7705 SAR
3HE07796AA	Network Integration 7210 SAS
3HE02941AA	Design & Integration - General IP Routing - 7750 SR, 7705 SAR, 7210 SAS
3HE07153AA	Network Integration 7750 SR, 7705 SAR, 7210 SAS - (Onsite 1 Week)

*** Notes:**

***Pricing Instructions:**

1. All hourly rates are based on a 40-hour work week and normal business hours.
2. Ordering codes are subject to change and will be determined when an official quote is provided by N
3. Site Survey is limited to the United States, excluding Hawaii and Canada
4. Site Survey Assumptions: Pricing includes performing a basic site survey, which includes verification o
5. Installation and Implementation Services pricing does not apply to states with prevailing wages statut
6. Program Management and TPM performed remotely.
7. All services are subject to specific definitions, inclusions, exclusions, terms, etc. as defined in a Statem
8. Rates do not include travel and living expenses unless otherwise noted. T&L will be added at time of
9. On-site Installation hourly rate may require T&L depending on site location and distance from an inst
10. All Design & Integration Services listed above are assumed to be performed remotely unless otherw
11. All Services pricing included by Nokia is subject to annual adjustment for inflation and will be tracke

Metric	Price
per hour	\$ 250
per site	\$ 2,500
per hour	\$ 210
per hour	\$ 150
priced per specific site conditions	Custom
per month	\$ 57,000
per year	\$ 420,000
per month	\$ 57,000
per year	\$ 420,000
per month	\$ 57,000
per year	\$ 420,000
per network	Custom
per network	Custom
per network	Custom
per day	\$ 2,000
per day	\$ 2,000
per day	\$ 2,000
per day	\$ 2,000
per day	\$ 2,000
per hour	\$ 250
per hour	\$ 250
per hour	\$ 250
per hour	\$ 250
per hour	\$ 250
per hour	\$ 250
per hour	\$ 250
per hour	\$ 250
per hour	\$ 250
per week	\$ 18,000

okia

of equipment bay location, peripheral equipment termination assignments, power type and termination assignment
ies. Pricing will be quoted based on individual State adherence to prevailing wage requirements

ment of Work that will accompany each price quote from Nokia.
final quoting.
allation base; TBD once site information is provided.
ise noted. If onsite suppoer is required, T&L will be added at time of final quoting (i.e. on-site hourly rate may requi
ed to the CPI Index.

is, and cable running routes.

re T&L depending on site location)



IP Routing Maintenance	
Part No	Description
	REMOTE TECHNICAL SUPPORT
301013231	Remote Technical Support Gold (7705 SAR, 7210 SAS)
301013231	Remote Technical Support Gold (7750 SR, 7705 SAR, 7210 SAS, 7250 IXR, 7220 IXR)
301013231	Remote Technical Support Gold (NSP & VSR)
301013231	Remote Technical Support (minimum base price for network - 7705 SAR, 7210 SAS)
301013231	Remote Technical Support (minimum base price for network - 7750 SR, 7250 IXR, 7220 IXR)
301013231	Remote Technical Support (minimum base price for network NSP platform stand alone)
301028866	TS Service C (LE-C) ION IPR
	HARDWARE RETRUN FOR REPAIR RES-RFR)
Pricing is applicable after product warranty expires (typically after year 1)	
301048468	RES-RFR - all HW products
301048468	RES-RFR (minimum base price for network) 7705 SAR, 7210 SAS, 7750 SR, 7750 SRe, 7750 SRa, 7250 IXR, 7220 IXR
3HE15371AA	OEM Comp-HPE Equip-Base
3HE15372AA	OEM Comp-HPE Equip-Standard
3HE15373AA	OEM Comp-HPE Equip-Premium
3HE15372AB	OEM Comp-HPE Equip-Standard w DMR
3HE15373AB	OEM Comp-HPE Equip-Premium w DMR
	HARDWARE REPAIR & REPLACEMENT - ADVANCED EXCHANGE (RES-AE)
301048450	RES-AE-NBD - all HW products Year 1
301048450	RES-AE-NBD - all HW products Year 2
301048476	RES-AE-4HR - all HW products Year 1
301048476	RES-AE-4HR - all HW products Year 2
301048450	RES-AE (minimum Year 1 price for base network) 7705 SAR, 7210 SAS, 7750 SR, 7750 SRe, 7750 SRa, 7250 IXR, 7220 IXR

301048450	RES-AE (minimum Year 2 price for base network) 7705 SAR, 7210 SAS, 7750 SR, 7750 SRe, 7750 SRa, 7250 IXR, 7220 IXR
SOFTWARE SUBSCRIPTION PLANS	
3HE01807AB	SRS Annual Fee - 7750 SR(x), 7210 SAS, 7250 IXR
3HE11172AA	SRS Annual Fee - VSR
3HE05610AB	SRS Annual Fee - 7705 SAR
3HE01807AB	SRS Annual Fee - 7220 IXR
3HE10161AA	SRS Annual Fee - NSP

OPTICAL MAINTENANCE	
Part No	Description
REMOTE TECHNICAL SUPPORT	
301013256	Remote Technical Support Gold - All Optical Products
301013256	Remote Technical Support Gold - ELTS
REPAIR EXCHANGE SERVICES	
301048492	Repair and Exchange Service (all products) post warranty period
301048484	Advanced Repair and Exchange Service Next Day (all products) - Year 1
301048484	Advanced Repair and Exchange Service Next Day (all products) - Year 2+
301048500	Advanced Repair and Exchange Service 4hr (all products)
SOFTWARE RELEASE SUBSCRIPTION	
3KC69726AAAA	1830 PSS-4 SSP
3KC69727AAAA	1830 PSS-8 SSP
3KC69728AAAA	1830 PSS-16II/16 SSP
3KC69729AAAA	1830 PSS-32 SSP
3KC69731AAAA	1830 PSS-24X SSP
8DG43280AAAA	NSP NFM-T
109767749	Software Subscription Plan (all other products)
3KC76611AAAA	NRC - TRANSPORT - SRS (NAR ONLY)
3KC92713AAAA	WAVEPLANNER - TRANSPORT SRS (NAR ONLY)
3KC95006AAAA	WSO - TRANSPORT SRS (NAR ONLY)

Pricing Calculation Instructions:

1 - RTS, RFR and RES-AE fees are paid annually

- 2 - % based RTS Gold, RFR and RES-AE Prices = % fees listed below x total sell price of all HW & SW i
- 3 - RTS Bronze price = RTS Gold Price x 90%

Metric	MSRP	Discount %	Unit Price
			Price per Year
% of sell price (per year)	5.0%	-	5.0%
% of sell price (per year)	7.5%	-	7.5%
% of sell price (per year)	custom quoted	-	custom quoted
per project	\$ 5,833	40%	\$ 3,500
per project	\$ 7,500	40%	\$ 4,500
per project	\$ 5,833	40%	\$ 3,500
per project	Custom	-	-
			Price per Year
% of sell price (per year)	5.0%	-	5.0%
per project	\$ 6,250	40%	\$ 3,750
per project/3 yr Min.	Custom	-	-
per project/3 yr Min.	Custom	-	-
per project/3 yr Min.	Custom	-	-
per project/3 yr Min.	Custom	-	-
per project/3 yr Min.	Custom	-	-
			Price per Year
% of sell price (per year)	4.0%	-	4.0%
% of sell price (per year)	7.5%	-	7.5%
per unit/per year	Custom quoted based on geographic location	-	Custom quoted based on geographic location
per unit/per year	Custom quoted based on geographic location	-	Custom quoted based on geographic location
per project	\$ 5,833	40%	\$ 3,750

per project	\$ 10,417	40%	\$ 6,250
			Price per Year
% of sell price (per year)	3.0%	-	3.0%
% of sell price (per year)	20.0%	-	20.0%
% of sell price (per year)	3.0%	-	3.0%
% of sell price (per year)	5.0%	-	5.0%
% of sell price (per year)	20.0%	-	20.0%

Metric	Unit Price *
per unit/per year	5% IBV
per unit/per year	CUSTOM
per unit/per year	5% IBV
per unit/per year	4% IBV
per unit/per year	7.5% IBV
per unit/per year	CUSTOM
per unit/per year	5% IBV
per unit/per year	5% IBV
per unit/per year	5% IBV
per unit/per year	5% IBV
per unit/per year	5% IBV
per unit/per year	20% NSP IBV
per unit/per year	5% IBV
per unit/per year	20% NRC IBV
per unit/per year	20% WP IBV
per unit/per year	20% WSO IBV

ncluding license fees. These % fees must meet or exceed the minimums listed below (% amount cannot be below the minin

um).

CODE / PN
3HE01619AA
3HE02775AB
3HE02775CB
3HE02784MA
3HE02785MA
3HE03125AA
3HE03125BA
3HE03127AA
3HE03127BA
3HE04707AA
3HE04708AA
3HE05051AB
3HE05051BB
3HE05574HA
3HE05653AA
3HE05653BA
3HE05831CA
3HE05833CA

3HE06418AA
3HE06520AA
3HE06582BA
3HE06582BB
3HE06582BC
3HE06582BD
3HE06582BE
3HE06582BF
3HE06582BG
3HE06582BH
3HE06681HA
3HE06788AA
3HE06788BA
3HE06789AA
3HE06789BA
3HE06796AA
3HE06797AA
3HE06969AA
3HE06969BA
3HE06969CA
3HE06969DA
3HE06970AA
3HE06970BA
3HE06971AA
3HE06973AA
3HE06973BA
3HE07279AA
3HE07673AA
3HE07769AA
3HE07939AA

3HE07955AA
3HE08116AB
3HE08117AB
3HE08216AA
3HE08362AF
3HE08362AG
3HE08362AH
3HE08363AD
3HE08363AE
3HE08363AF
3HE08364AG
3HE08364AH
3HE08364AJ
3HE08365AD

3HE08365AE
3HE08365AF
3HE08421AA
3HE08422AA
3HE08996GA
3HE08996HA
3HE09001AA
3HE09170AA
3HE09171AA
3HE09180AA
3HE09181AA
3HE09201AA

3HE09242AA
3HE09243AA
3HE09244AA
3HE09245AA
3HE09303AA
3HE09303BA
3HE09422AA
3HE09423AA
3HE09427AA
3HE09428AA
3HE09429AA
3HE09430AA
3HE09507FA
3HE09507GA

3HE10218GA
3HE10218HA
3HE10328AA
3HE10417EA
3HE10417FA
3HE10439AA
3HE10440AA
3HE10441AA
3HE10474AA
3HE10476AA
3HE10477AA

3HE10515AA
3HE10757EA
3HE10757FA
3HE10759EA
3HE10759FA
3HE10866EA
3HE10866FA
3HE10869EA
3HE10869FA
3HE10934FA
3HE10935FA

3HE10936FA
3HE11351AA
3HE11351CA
3HE11467EA
3HE11467FA
3HE11469DA

3HE11469EA
3HE11471DA
3HE11471EA
3HE11502AA
3HE11503AA
3HE11504AA
3HE11588AD
3HE11588AE
3HE11881AB
3HE12023AE
3HE12023AF
3HE12023AG
3HE12023AH
3HE12023AJ
3HE12023AK
3HE12023AM
3HE12024AA
3HE12024AB
3HE12024AC
3HE12025AA

3HE12025AB
3HE12025AC
3HE12026AA
3HE12026AB
3HE12026AC
3HE12027AA
3HE12027AB
3HE12027AC
3HE12028AA
3HE12028AB
3HE12028AC
3HE12106AA
3HE12112AA
3HE12112AB
3HE12196AB
3HE12197AB
3HE12198AB
3HE12199AB
3HE12353AA
3HE12492AA
3HE12508AA
3HE12513AA
3HE12552AA
3HE12553AA
3HE12565AA
3HE12565CA

3HE13477DA
3HE13478DA
3HE13479DA
3HE13480DA
3HE13528AA
3HE13529AA
3HE13533AA
3HE13543AA
3HE13713AA
3HE13714AA
3HE14148AD
3HE14163DA
3HE14163EA

3HE14519AA
3HE14583CA
3HE14583DA
3HE15151AA
3HE15219AA
3HE15508BA
3HE15508CA
3HE15562AA
3HE15601AA
3HE15601AB
3HE15601CA
3HE15662AB
3HE15662BB
3HE15663AB
3HE15663BB

3HE15664AB
3HE15664BB
3HE15676BA
3HE15676CA
3HE15808BA
3HE15809BA
3HE15839AA
3HE15840AA
3HE15841AA
3HE15842AA
3HE15869AA
3HE15870AA
3HE16222AA
3HE16223AA
3HE16224AA

3HE16225AA
3HE16226AA
3HE16227AA
3HE16228AA
3HE16229AA
3HE16421AA
3HE16425AA
3HE17931AA
3HE17931BA
3HE17932AA
3HE17932BA
3HE17933AA
3HE17933BA
3HE17934AA
3HE17934BA
3HE17935BA
END



PRODUCT / DESCRIPTION
SR/ESS/SAS/SAR 2 GB Compact Flash - Spare (Blank)
16-port Channelized/Unchannelized T1/E1 Any Service Any Port (ASAP) Card V2, supports channelization down to DS0 and ATM/PPP/TDM encapsulations. Each port can be independently configured for the different services and can be used for access or network ports. This card is supported in both -48 VDC and +24 VDC systems.
Conformal Coated Variant of 16-port Channelized/Unchannelized T1/E1 Any Service Any Port (ASAP) Card V2, supports channelization down to DS0 and ATM/PPP/TDM encapsulations. Each port can be independently configured for the different services and can be used for access or network ports. This card is supported in both -48 VDC and +24 VDC systems.
SAR Release 9.0 OS License. One (1) OS Upgrade is required for each SAR-8, SAR-M, SAR-A, SAR-W, SAR-Wx, SAR-H, SAR-Hc, SAR-X, SAR-Ax in the network. See the optional RTUs available for additional advanced features. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/ .
SAR Release 9.0 OS Upgrade for the basic suite of functionality. One (1) OS Upgrade is required for each SAR-8, SAR-M, SAR-A, SAR-W, SAR-Wx, SAR-H, SAR-Hc, SAR-X, SAR-Ax in the network. See the optional RTUs available for additional advanced features. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/ .
4-port OC3/STM1 Clear Channel Card, supporting ATM services and POS network links. Includes 4 SFP cages for interfaces. Each port can be used for access or network ports. SFPs sold separately. -48VDC
Conformal Coated Variant of 4-port OC3/STM1 Clear Channel Card, supporting ATM services and POS network links. Includes 4 SFP cages for interfaces. Each port can be used for access or network ports. SFPs sold separately. -48VDC
2-port OC3/STM1 Card, with channelization down to DS0 and ATM/PPP/TDM encapsulations. Each port can be independently configured for the different services and access/network. SFPs sold separately.
Conformal Coated Variant of 2-port OC3/STM1 Card, with channelization down to DS0 and ATM/PPP/TDM encapsulations. Each port can be independently configured for the different services and access/network. SFPs sold separately.
SR/ESS/SAS/SAR 4 GB Compact Flash - Spare (Blank)
SR/ESS/SAS/SAR 8 GB Compact Flash - Spare (Blank)
1RU SAR-M with 1 modular position configuration with redundant universal (-48V/+24V) DC power feeds. Node has 16 T1/E1 ASAP and 7 10/100/1000 Mbps Ethernet ports (4 SFP/3 RJ45) and built-in Control/Switch functionality. OS and other licenses sold separately.
Conformal Coated 1RU SAR-M with 1 modular position configuration with redundant universal (-48V/+24V) DC power feeds. Node has 16 T1/E1 ASAP and 7 10/100/1000 Mbps Ethernet ports (4 SFP/3 RJ45) and built-in Control/Switch functionality. OS and other licenses sold separately.
SAR Release 9.0 OS License. One (1) OS License is required for each SAR-18 in the network. See the optional RTUs available for additional advanced features. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/ .
1RU SAR-M with 1 modular position with Ethernet ports only configuration with redundant universal (-48V/+24V) DC power feeds. Node has 7 10/100/1000 Mbps Ethernet ports (4 SFP/3 RJ45) and built-in Control/Switch functionality. OS and other licenses sold separately.
Conformal Coated 1RU SAR-M with 1 modular position with Ethernet ports only configuration with redundant universal (-48V/+24V) DC power feeds. Node has 7 10/100/1000 Mbps Ethernet ports (4 SFP/3 RJ45) and built-in Control/Switch functionality. OS and other licenses sold separately.
1-port 10GBASE-LR Small Form-Factor Pluggable (XFP) Optics Module, Single Mode Fiber (SMF), 10km, 1310 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant, Extended Temperature -40/85C
1-port 10GBASE-ZR Small Form-Factor Pluggable (XFP) Optics Module, Single Mode Fiber (SMF), 80km, 1550nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant, Extended Temperature -40/85C

SROS RTP Performance Measurement per 10G/s traffic license. Per system and per active ISA license, or per network license.
SROS Enable RTP Performance license. Must be ordered as a pre-requisite to the RTP 1G or 10G RTUs. Per system and per active ISA license, or per network license.
1-color CWDM add-drop OADM module for the SAR-M. 1 Tx and 1 Rx at 1471 nm is filtered by East and West directions.
1-color CWDM add-drop OADM module for the SAR-M. 1 Tx and 1 Rx at 1491 nm is filtered by East and West directions.
1-color CWDM add-drop OADM module for the SAR-M. 1 Tx and 1 Rx at 1511 nm is filtered by East and West directions.
1-color CWDM add-drop OADM module for the SAR-M. 1 Tx and 1 Rx at 1531 nm is filtered by East and West directions.
1-color CWDM add-drop OADM module for the SAR-M. 1 Tx and 1 Rx at 1551 nm is filtered by East and West directions.
1-color CWDM add-drop OADM module for the SAR-M. 1 Tx and 1 Rx at 1571 nm is filtered by East and West directions.
1-color CWDM add-drop OADM module for the SAR-M. 1 Tx and 1 Rx at 1591 nm is filtered by East and West directions.
1-color CWDM add-drop OADM module for the SAR-M. 1 Tx and 1 Rx at 1611 nm is filtered by East and West directions.
SAR Release 9.0 OS Upgrade for the basic suite of functionality. One (1) OS Upgrade is required for each SAR-18 in the network. See the optional RTUs available for additional advanced features. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at http://libra.app.alcatel-lucent.com/
Expansion module with 2-port 10GigE XFPs for Network (Ring) connectivity. 10GigE switching between ports. XFPs sold separately. This card is supported in both -48 VDC and +24 VDC systems.
Conformal Coated Variant of Expansion module with 2-port 10GigE XFPs for Network (Ring) connectivity. 10GigE switching between ports. XFPs sold separately. This card is supported in both -48 VDC and +24 VDC systems.
2-port 10GigE Network connectivity (Ring) Card. 10GigE switching between ports. XFPs sold separately. This card is supported in both -48 VDC and +24 VDC systems.
Conformal Coated Variant of 2-port 10GigE Network connectivity (Ring) Card. 10GigE switching between ports. XFPs sold separately. This card is supported in both -48 VDC and +24 VDC systems.
1RU SAR-A with redundant -48V DC power feeds. Node has 4xRJ45/SFP combo GigE ports, 4xSFP GigE ports and 4xRJ45 FE ports. OS and other licenses sold separately.
1RU SAR-A with redundant -48V DC power feeds. Node has 4xRJ45/SFP combo GigE ports, 4xSFP GigE ports, 4xRJ45 FE ports and 8 T1/E1 ports. OS and other licenses sold separately.
SAR-H shelf with high voltage power input (88 - 300V AC or DC). Contains 4 x SFP GigE and 4 x RJ45 10/100/1000 PoE-capable ethernet ports and two module positions. AC power cord 3HE10447AA for Japan is sold separately. OS and other licenses sold separately.
SAR-H shelf with low voltage power input (+24/-48V DC). Contains 4 x SFP GigE and 4 x RJ45 10/100/1000 PoE-capable ethernet ports and two module positions. OS and other licenses sold separately.
Conformal Coated SAR-H shelf with high voltage power input (88 - 300V AC or DC). Contains 4 x SFP GigE and 4 x RJ45 10/100/1000 PoE-capable ethernet ports and two module positions. AC power cord 3HE10447AA for Japan is sold separately. OS and other licenses sold separately.
Conformal Coated SAR-H shelf with low voltage power input (+24/-48V DC). Contains 4 x SFP GigE and 4 x RJ45 10/100/1000 PoE-capable ethernet ports and two module positions. OS and other licenses sold separately.
External supply required to supply additional PoE power to the SAR-H. Can also be used to provide 48VDC (nominal) to other equipment via 9 pin D-sub connector. 85-265V AC or 88-300V DC input. 100W output power. -40 to +65C operation. IP40 enclosure rating. AC power cord 3HE10447AA for Japan is sold separately.
External supply required to supply additional PoE power to the SAR-H. Can be used to provide 48VDC (nominal) to other equipment via 9 pin D-sub connector. 20-75V DC input. 100W output power. -40 to +65C operation. IP40 enclosure rating.
1RU tray to house up to 2 x 3HE06970xA 100W power supplies
Combo module supporting 2 x T1/E1 ports with TDM and IP functionality and 2 x RS232 serial data ports. RJ45 connectors for interconnection to end equipment.
Conformal Coated Variant of Combo module supporting 2 x T1/E1 ports with TDM and IP functionality and 2 x RS232 serial data ports. RJ45 connectors for interconnection to end equipment.
SROS RTP Performance Measurement per 1Gb/s of traffic license. Per system and per active ISA license, or per network license.
low profile 12 position Fiber splice tray and termination tray for ALP-7705/7210 5RU cabinet. Min order Qty of 10 required on all orders
Kit contains brackets to wall mount or reverse rack mount a 7705 SAR-H.
SAR-O outdoor system for passive optical CWDM OADM of 4 wavelengths (1471/1491/1511/1531 nm) with an expansion port (including 1310 nm passthrough) over a dual fiber cable

SAR-H GPS Receiver Module plus Integrated and Distributed 1588v2 GrandMasters
SYS - 7210 SAS-T 12F 10T 4XFP system includes; 2 GB CPU memory (1) Fan Tray, (10) 10/100/1000 TX + Accepts(12) 100/1000 SFP + (4) XFP(s). Does not include 7210 SAS Operating Software or usage licenses.
SYS - 7210 SAS-T 12F 10T 4XFP Extended Temperature Range system includes; 2 GB CPU memory (1) Fan Tray, (10) 10/100/1000 TX + Accepts(12) 100/1000 SFP + (4) XFP(s). Does not include 7210 SAS Operating Software or usage licenses.
C-XMA Right To Use License Upgrade from LSR to IPCore for 6-port 40G C-XMA. RTU license is tied to the specific C-XMA (tied to the serial number) for which it is purchased.
SYS - 7210 SAS-T 12F 10T 4XFP DC system includes; 2 GB CPU memory (1) 3HE08116AB SYS - 7210 SAS-T 12F 10T 4XFP (1) 3HE06336AB PS - 7210 SAS-T/Mxp ETR +24V (200W) DC Does not include 7210 SAS Operating Software or usage licenses.
SYS - 7210 SAS-T 12F 10T 4XFP AC system includes; 2 GB CPU memory, (1) 3HE08116AB SYS - 7210 SAS-T 12F 10T 4XFP (1) 3HE04414AB PS-7210 SAS Mxp/T AC PS (NON-ETR) 200 Watt Does not include 7210 SAS Operating Software or usage licenses.
SYS - 7210 SAS-T 12F 10T 4XFP DC system includes; 2 GB CPU memory (1) 3HE08116AB SYS - 7210 SAS-T 12F 10T 4XFP (1) 3HE04415AB PS-7210 SAS Mxp/T DC -48V PS (NON-ETR) 200W Does not include 7210 SAS Operating Software or usage licenses.
SYS - 7210 SAS-T 12F 10T 4XFP AC Extended Temperature Range system includes; 2 GB CPU memory (1) 3HE08117AB SYS -7210 SAS-T 12F 10T 4XFP ETR (1) 3HE05580AB 7210 SAS (200W) AC ETR Power supply Does not include 7210 SAS Operating Software or usage licenses.
SYS - 7210 SAS-T 12F 10T 4XFP Extended Temperature Range DC system includes; 2 GB CPU memory (1) 3HE08117AB SYS -7210 SAS-T 12F 10T 4XFP ETR (1) 3HE05581AB 7210 SAS -48V (200W) DC ETR Power supply Does not include 7210 SAS Operating Software or usage licenses..
SYS - 7210 SAS-T 12F 10T 4XFP Extended Temperature Range DC system includes; 2 GB CPU memory (1) 3HE08117AB SYS -7210 SAS-T 12F 10T 4XFP ETR (1) 3HE06336AB PS - 7210 SAS-T/Mxp ETR +24V (200W) DC Does not include 7210 SAS Operating Software or usage licenses.
SYS - 7210 SAS-T 12F 10T 4XFP AC system includes; 2 GB CPU memory (1) 3HE08116AB SYS - 7210 SAS-T 12F 10T 4XFP (1) 3HE04414AB PS-7210 SAS Mxp/T AC PS (NON-ETR) 200 Watt (1) 3HE00271AA CBL - AC PWR CBL 110V USA Does not include 7210 SAS Operating Software or usage licenses.
SYS - 7210 SAS-T 12F 10T 4XFP AC system includes; 2 GB CPU memory (1) 3HE08116AB SYS - 7210 SAS-T 12F 10T 4XFP (1) 3HE04414AB PS-7210 SAS Mxp/T AC PS (NON-ETR) 200 Watt (1) 3HE00271AD CBL - AC PWR CBL 110V UK Does not include 7210 SAS Operating Software or usage licenses.
SYS - 7210 SAS-T 12F 10T 4XFP AC system includes; 2 GB CPU memory (1) 3HE08116AB SYS - 7210 SAS-T 12F 10T 4XFP (1) 3HE04414AB PS-7210 SAS Mxp/T AC PS (NON-ETR) 200 Watt (1) 3HE00271AC CBL - AC PWR CBL 110V EUR Does not include 7210 SAS Operating Software or usage licenses.
SYS - 7210 SAS-T 12F 10T 4XFP AC Extended Temperature Range system includes; 2 GB CPU memory (1) 3HE08117AB SYS - 7210 SAS-T 12F 10T 4XFP (1) 3HE05580AB 7210 SAS (200W) AC ETR Power supply (1) 3HE00271AA CBL - AC PWR CBL 110V USA Does not include 7210 SAS Operating Software or usage licenses.

SYS - 7210 SAS-T 12F 10T 4XFP AC Extended Temperature Range system includes; 2 GB CPU memory

(1) 3HE08117AB SYS - 7210 SAS-T 12F 10T 4XFP

(1) 3HE05580AB 7210 SAS (200W) AC ETR Power supply

(1) 3HE00271AD CBL - AC PWR CBL 110V UK

Does not include 7210 SAS Operating Software or usage licenses.

SYS - 7210 SAS-T 12F 10T 4XFP AC Extended Temperature Range system includes; 2 GB CPU memory

(1) 3HE08117AB SYS - 7210 SAS-T 12F 10T 4XFP

(1) 3HE05580AB 7210 SAS (200W) AC ETR Power supply

(1) 3HE00271AC CBL - AC PWR CBL 110V EUR

Does not include 7210 SAS Operating Software or usage licenses.

Spare - 7750 SR SFM5-12e

7750 SR12e - Mini-SFM5-12e - SFM functionality

OS – 7210 SAS-R Base OS License Release 20.X Base OS license.

This is a per chassis license, valid for release 20.X. It provides the base OS and includes support for native and MPLS-based Ethernet services (e.g. VPLS and Epipe services) to operate 7210 SAS-R6 and 7210 SAS-R12 chassis..

It excludes the use of MPLS-TP and IP services (e.g. VPRNs and IES services).

It must be also purchased for upgrade to release 20.X.

One (1) Operating Software License is required for each 7210 SAS-R6 or 7210 SAS-R12 in the network. Includes two (2) 2GB

Compact Flashess with the Operating Software

OS – 7210 SAS-R Base OS License Release 21.X Base OS license.

This is a per chassis license, valid for release 21.X. It provides the base OS and includes support for native and MPLS-based Ethernet services (e.g. VPLS and Epipe services) to operate 7210 SAS-R6 and 7210 SAS-R12 chassis..

It excludes the use of MPLS-TP and IP services (e.g. VPRNs and IES services).

It must be also purchased for upgrade to release 21.X.

One (1) Operating Software License is required for each 7210 SAS-R6 or 7210 SAS-R12 in the network. Includes two (2) 2GB

Compact Flashess with the Operating Software

SFM - 7750 SR SFM5-12e + CPM5

Bundle includes:

(1) 3HE08421AA - SFM - 7750 SR SFM5-12e

(1) 3HE08423AA - CPM - 7750 SR CPM5

6 port Ethernet Module (2xFE SFP ports, 4xGE (2xRJ.5, 2xCombo(SFP, RJ.5) for SAR-M with Poe/PoE+ capability. PoE RTU sold separately

C-XMA Right To Use License Upgrade from LSR to IPCore for 72-port 1GE C-XMA. RTU license is tied to the specific C-XMA (tied to the serial number) for which it is purchased.

SSF VSR-RR Route Reflector – Level 1 - Software Subscription Fee (SSF) that allows for the upgrade of the VSR-RR software to any currently available software releases, including new major releases, as long as the annual support contract is in effect. One (1) Level 1 SSF is required for each instance of the level 1 VSR-RR purchased. The SSF must be purchased at the time the VSR-RR license is purchased and must be renewed annually to retain access to new versions of the VSR-RR software. VSR-RR license is sold for the specified SROS release. Licenses for different releases must be purchased separately, unless covered by an SSF for VSR-RR

SSF VSR-RR Route Reflector – Level 2 - Software Subscription Fee (SSF) that allows for the upgrade of the VSR-RR software to any currently available software releases, including new major releases, as long as the annual support contract is in effect. One (1) Level 2 SSF is required for each instance of the level 2 VSR-RR purchased. The SSF must be purchased at the time the VSR-RR license is purchased and must be renewed annually to retain access to new versions of the VSR-RR software. VSR-RR license is sold for the specified SROS release and is not covered by any other Nokia software support contract. Licenses for different releases must be purchased separately

7750 SR-a Control & Processor Module (CPM) with 6-core 800Mhz CPU and 4GB DRAM.

DC BNDL - 7750 SR-a4. Non-Redundant Bundle Includes:

- (1) 3HE09195AA - CHAS - 7750 SR-a4 CHASSIS (Including filter),
- (1) 3HE09197AA - FAN - 7750 SR-a4 Fan Tray,
- (1) 3HE09199AA - PSU - 7750 SR-a DC -48v,
- (1) 3HE09201AA - CPM - 7750 SR-a,
- (4) 3HE09417AA - ACC - 7750 SR-a CPM/MDA Impedance Panels,
- (3) 3HE09419AA - ACC - 7750 SR-a PSU Impedance Panels.

AC BNDL - 7750 SR-a4. Non-Redundant Bundle Includes:

- (1) 3HE09195AA - CHAS - 7750 SR-a4 CHASSIS (Including filter),
- (1) 3HE09197AA - FAN - 7750 SR-a4 Fan Tray,
- (1) 3HE09200AA - PSU - 7750 SR-a AC,
- (1) 3HE09201AA - CPM - 7750 SR-a,
- (4) 3HE09417AA - ACC - 7750 SR-a CPM/MDA Impedance Panels,
- (3) 3HE09419AA - ACC - 7750 SR-a PSU Impedance Panels.

DC BNDL - 7750 SR-a8 Non-Redundant Bundle Includes;

- (1) 3HE09196AA - CHAS - 7750 SR-a8 CHASSIS (includes filter),
- (1) 3HE09198AA - FAN - 7750 SRa8 Fan Tray,
- (2) 3HE09199AA - PSU - 7750 SR-a DC -48V,
- (1) 3HE09201AA - CPM - 7750 SR-a,
- (8) 3HE09417AA - ACC - 7750 SR-a CPM/MDA Impedance Panels,
- (2) 3HE09418AA - ACC - 7750 SR-a PSU Impedance Panels,
- (1) 3HE09419AA - ACC - 7750 SR-a IOM Impedance Panel

AC BNDL - 7750 SR-a8 Non-Redundant Bundle Includes:

- (1) 3HE09196AA - CHAS - 7750 SR-a8 CHASSIS (includes filter),
- (1) 3HE09198AA - FAN - 7750 SRa8 Fan Tray,
- (2) 3HE09200AA - PSU - 7750 SR-a -AC,
- (1) 3HE09201AA - CPM - 7750 SR-a,
- (8) 3HE09417AA - ACC - 7750 SR-a CPM/MDA Impedance Panels,
- (2) 3HE09418AA - ACC - 7750 SR-a PSU Impedance Panels,
- (1) 3HE09419AA - ACC - 7750 SR-a IOM Impedance Panel

Fast ETHERNET module supporting 4xRJ45 10/100 ethernet data ports .

Conformal Coated Variant of Fast ETHERNET module supporting 4xRJ45 10/100 ethernet data ports .

APEQ-DC-2200-2800 Power Equalizer Module

APEQ-AC-3000 Power Equalizer Module

CHAS - 7210 SAS-R12 CHASSIS SPARE

FAN - 7210 SAS-R12 Fan Tray

PEM - 7210 SAS-R12 -48V

SF/CPM - 7210 SAS-R12

OS - 7210 SAS-T Release 20.X Base OS.

This is a per chassis license, valid for release 20.XRx. It provides the base OS and includes support for native and MPLS-based Ethernet services (e.g. VPLS and Epipe services).

It excludes the use of MPLS-TP and IP services (e.g. VPRNs and IES services).

It must also be purchased to upgrade to release 20.X.

Includes one (1) programmed 2GB Compact Flash cards with the Operating Software.

OS - 7210 SAS-T Release 21.X Base OS.

This is a per chassis license, valid for release 21.X. It provides the base OS and includes support for native and MPLS-based Ethernet services (e.g. VPLS and Epipe services).

It excludes the use of MPLS-TP and IP services (e.g. VPRNs and IES services).

It must also be purchased to upgrade to release 21.X.

Includes one (1) programmed 2GB Compact Flash cards with the Operating Software

OS - 7210 SAS-K 2F1C2T, Release 20.X Base OS license / Native Ethernet L2 VPNs license. This license is required for both ETR and non-ETR variants.

This is a per chassis license valid for release 20.X. It provides the Base OS and includes support for native Ethernet services (e.g. Layer-2 VPLS and Epipe services). It also includes support for syncE and PTP.

~~It must also be purchased for upgrade to release 20.X. It will shipped on a SD Card.~~

OS - 7210 SAS-K 2F1C2T, Release-21.X Base OS license / Native Ethernet L2 VPNs license.

This license is required for both ETR and non-ETR variants.

This is a per chassis license valid for release 21.X. It provides the Base OS and includes support for native Ethernet services (e.g. Layer-2 VPLS and Epipe services). It also includes support for syncE and PTP.

~~It must also be purchased for upgrade to release 21.X. It will shipped on a SD Card.~~

7210 SAS-Sx SONET/SDH satellite system can be configured as a 4-port OC3/STM1 or 1-port OC12/STM4, with support for channelization to DS1/E1. The system is managed by the 7750 SR host to provide TDM services on access.

OS - 7210 SAS-Mxp Release 20.X Base OS license, Standalone mode.

This is a per chassis license, valid for release 20.X. It provides the base OS and includes support for native and MPLS-based Ethernet services (e.g. VPLS and Epipe services). It excludes the use of IP services (e.g. VPRNs and IES services). It is required to operate 7210 SAS-Mxp ETR and non-ETR chassis, in standalone mode.

It excludes the use satellite mode of operation.

It must also be purchased for upgrade to release 20.X.

~~Includes one (1) programmed 2GB Compact Flash cards with the Operating Software~~

OS - 7210 SAS-Mxp Release 21.X Base OS license, Standalone mode.

This is a per chassis license, valid for release 21.X. It provides the base OS and includes support for native and MPLS-based Ethernet services (e.g. VPLS and Epipe services). It excludes the use of IP services (e.g. VPRNs and IES services). It is required to operate 7210 SAS-Mxp ETR and non-ETR chassis, in standalone mode.

It excludes the use satellite mode of operation.

It must also be purchased for upgrade to release 21.X.

~~Includes one (1) programmed 2GB Compact Flash cards with the Operating Software~~

ACC - 7210 SAS-R12 PEM Impedance Panel

ACC – 7210 SAS-R12 AIR FILTER 5 pack

ACC - 7210 SAS-R12 SF/CPM Impedance Panel

ACC 7950 XRS-20 80A BREAKERS (x24)

7750 SR12e Chassis Bundle includes:

(1) 3HE07165AA - CH-BN - 7750 SR12e Integrated Chassis

(1) 3HE08421AA - SFM - 7750 SR SFM5-12e

(1) 3HE08423AA - CPM - 7750 SR CPM5

(2) 3HE08422AA - SFM - 7750 SR mini-SFM5-12e

(3) 3HE09423AA - APEQ-AC-3000 Power Equalizer Module

(1) 3HE10114AA - ACC 7750 SR-12e AC bezel

~~(1) 3HE10475AA - ACC 7750 SR-12e 80A Breakers x16~~

7750 SR12e Chassis Bundle includes:

(1) 3HE07165AA - CH-BN - 7750 SR12e Integrated Chassis

(1) 3HE08421AA - SFM - 7750 SR SFM5-12e

(1) 3HE08423AA - CPM - 7750 SR CPM5

(2) 3HE08422AA - SFM - 7750 SR mini-SFM5-12e

(3) 3HE09422AA - APEQ-DC-2200-2800 Power Equalizer Module

~~(1) 3HE10475AA - ACC 7750 SR-12e 80A Breakers x16~~

BNDL - 7210 SAS-R12

(1) 3HE09427AA CHAS - 7210 SAS-R12 CHASSIS SPARE

(1) 3HE09430AA SF/CPM - 7210 SAS-R12

(1) 3HE10441AA ACC - 7210 SAS-R12 SF/CPM Impedance Panel

(1) 3HE09428AA FAN - 7210 SAS-R12 Fan Tray

(2) 3HE09429AA PEM - 7210 SAS-R12 -48V

(11) 3HE08159AA ACC - 7210 SAS-R IMM Impedance Panel

OS - 7210 SAS-D Release 20.X (or upgrade to rel 20.X).

OS - 7210 SAS-D Release 21.X (or upgrade to rel 21.X).

OS - 7210 SAS-M Release 20.X (or upgrade to rel 20.X).

OS - 7210 SAS-M Release 21.X (or upgrade to rel 21.X).

OS - 7210 SAS-Sx and 7210 SAS-S, 1GE/10GE variant, Release 20.X Base OS License / Native and MPLS Ethernet L2 VPNs License, Standalone Mode.

This is a per chassis license, valid for release 20.X. It provides the Base OS and includes support for native and MPLS-based Ethernet services (e.g. Layer-2 VPLS and Epipe services) for operating the chassis in standalone mode. It also includes support for syncE and PTP.

It excludes the use IP services (e.g. VPRNs and IES services).

In a stacked/VC configuration, it must be purchased for every node in the stack/VC.

~~It must also be purchased for upgrade to release 20.X. It will shipped on a SD Card~~

OS - 7210 SAS-Sx and 7210 SAS-S, 1GE/10GE variant, Release 21.X Base OS License / Native and MPLS Ethernet L2 VPNs License, Standalone Mode.

This is a per chassis license, valid for release 21.X. It provides the Base OS and includes support for native and MPLS-based Ethernet services (e.g. Layer-2 VPLS and Epipe services) for operating the chassis in standalone mode. It also includes support for syncE and PTP.

It excludes the use IP services (e.g. VPRNs and IES services).

In a stacked/VC configuration, it must be purchased for every node in the stack/VC.

~~It must also be purchased for upgrade to release 21.X. It will shipped on a SD Card~~

OS - 7210 SAS-Sx and 7210 SAS-S, 1GE/10GE variant, Release 20.X Base OS License, Satellite Mode.

This is a per chassis license for release 20.X. It allows for operating the chassis in satellite mode.

It excludes the use standalone mode of operation and use of stacking/VC configuration.

It must also be purchased for upgrade to release 20.X.

~~It will be shipped on a SD card~~

OS - 7210 SAS-Sx and 7210 SAS-S, 1GE/10GE variant, Release 21.X Base OS License, Satellite Mode.

This is a per chassis license for release 21.X. It allows for operating the chassis in satellite mode.

It excludes the use standalone mode of operation and use of stacking/VC configuration.

It must also be purchased for upgrade to release 21.X.

~~It will be shipped on a SD card~~

ASL R16.0 VSR Distributed Base - Application Software License (ASL) required to create a single distributed VSR instance. One (1) of these ASLs is required for each instance of VSR distributed system and supports a single control plane VM. Additional ASLs will be required to add control plane redundancy, bandwidth capacity, services and value added services such as AA, SEGW, BNG, WLGW & NAT.

ASL R16.0 VSR Dist Redundant Control Plane - Application Software License (ASL) required to enable a redundant control plane VM.

One (1) of these ASL is required to instantiate a redundant control plane VM per VSR system.

ASL R16.0 VSR Distributed Base < 60Gbps - Application Software License (ASL) required to create a single distributed VSR instance under 60Gbps. Not required if using ASL R15.0 VSR Distributed Base.

One (1) of these ASLs is required for each instance of a <60Gbps VSR distributed system and supports a single control plane VM. Additional ASLs will be required to add control plane redundancy, bandwidth capacity, services and value added services such as AA, SEGW, BNG, WLGW & NAT.

7750 SR IOM4-e-HS (High Scale) Baseboard. Accepts up to 2 MDA-e

Full Service Routing Functionality, Full Queuing, hierarchical policing, IPv4/IPv6 routing services. Available upgrades/licenses: VPRN

7750 SR IOM4-e-HS (High Scale) Baseboard. Accepts up to 2 MDA-e

Includes "Layer-2 High Queuing" IMM Software License/functionality for full ESS functionality which includes the use of full queuing and policing with layer-2 services.

Excludes use of multicast routing protocol or services, IPv6 routing services, VPRN services (including IPv4 and IPv6 VPNs), network interfaces when installed in a chassis running the above mentioned restricted services. Available upgrades/licenses: upgrade to L3HQ

7210 SAS-K 2F6C4T, Release 20.X Base OS License / Native and MPLS Ethernet L2 VPNs License.

This is a per chassis license valid for release 20.X and must be purchased for both 7210 SAS-K 2F6C4T (non-ETR) and 7210 SAS-K 2F6C4T ETR variant. It provides the Base OS and includes support for native and MPLS-based Ethernet services (e.g. Layer-2 VPLS and Epipe services). It also includes support for syncE and PTP.

It excludes the use IP services (e.g. VPRNs and IES services).

~~It must also be purchased for upgrade to release 20.X. It will shipped on a SD Card.~~

7210 SAS-K 2F6C4T, Release 21.X Base OS License / Native and MPLS Ethernet L2 VPNs License.

This is a per chassis license valid for release 21.X and must be purchased for both 7210 SAS-K 2F6C4T (non-ETR) and 7210 SAS-K 2F6C4T ETR variant. It provides the Base OS and includes support for native and MPLS-based Ethernet services (e.g. Layer-2 VPLS and Epipe services). It also includes support for syncE and PTP.

It excludes the use IP services (e.g. VPRNs and IES services).

~~It must also be purchased for upgrade to release 21.X. It will shipped on a SD Card.~~

OS - 7210 SAS-Sx 10GE/100GE Variant, Release 20.X Base OS License / Native and MPLS Ethernet L2 VPNs License, Standalone Mode.

This is a per chassis license valid for release 20.X. It provides the Base OS and includes support for native and MPLS-based Ethernet services (e.g. Layer-2 VPLS and Epipe services) for operating in standalone mode. It also includes support for syncE and PTP.

It is required to operate 7210 SAS-Sx 64SFP+ 4CFP4 and 7210 SAS-Sx 64SFP+ 4QSFP28 chassis, in standalone mode. It excludes the use IP services (e.g. VPRNs and IES services) and stacking/VC configuration.

It must also be purchased for upgrade to release 20.X.

~~It will shipped on a SD Card.~~

OS - 7210 SAS-Sx 10GE/100GE variant, Release 21.X Base OS License / Native and MPLS Ethernet L2 VPNs License, Standalone Mode.

This is a per chassis license valid for release 21.X. It provides the Base OS and includes support for native and MPLS-based Ethernet services (e.g. Layer-2 VPLS and Epipe services) for operating in standalone mode. It also includes support for syncE and PTP.

It is required to operate 7210 SAS-Sx 64SFP+ 4CFP4 and 7210 SAS-Sx 64SFP+ 4QSFP28 chassis, in standalone mode. It excludes the use IP services (e.g. VPRNs and IES services) and stacking/VC configuration. It must also be purchased for upgrade to release 21.X.

It will shipped on a SD Card

7210 SAS-Sx 10GE/100GE variant, Release 20.X Base OS License, Satellite Mode.

This is a per chassis license for release 20.X. It allows for operating the chassis in satellite mode.

It is required to operate 7210 SAS-Sx 64SFP+ 4CFP4 and 7210 SAS-Sx 64SFP+ 4QSFP28 chassis, in satellite mode.

It excludes the use standalone mode of operation and use of Stacking.

It must also be purchased for upgrade to release 20.X.

It will be shipped on a SD card

7210 SAS-Sx 10GE/100GE variant, Release 21.X Base OS License, Satellite Mode.

This is a per chassis license for release 21.X. It allows for operating the chassis in satellite mode.

It is required to operate 7210 SAS-Sx 64SFP+ 4CFP4 and 7210 SAS-Sx 64SFP+ 4QSFP28 chassis, in satellite mode.

It excludes the use standalone mode of operation and use of Stacking.

It must also be purchased for upgrade to release 21.X.

It will be shipped on a SD card

7210 RPS CHASSIS

7210 RPS Fiber Satellite Power Adaptor

7210 RPS INTERPOSER DCIN 12V 150WOUT

7705 SAR-Hm/Hmc Release 20 OS License. One (1) OS license is required for each SAR-Hm/Hmc in the network. See the optional RTUs available for additional advanced features. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at <http://libra.app.alcatel-lucent.com/>.

7705 SAR-Hm/Hmc Release 21 OS License. One (1) OS license is required for each SAR-Hm/Hmc in the network. See the optional RTUs available for additional advanced features. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code "SWSC-DEL-L4-10" found at <http://libra.app.alcatel-lucent.com/>.

SYS - 210 WBX 32QSFP28, base platform.

Includes Rail-Kit posts

Does not include fans or power supplies

AC Power Cable AS/NZS 3112 to IEC 60320 C13 10A/250V 1.8 meter - Australia / New Zealand

AC Power Cable NBR 14136 Type N to IEC 60320 C13 10A/250V 1.8 meter- Brazil

AC Power Cable CPCS-CCC Type I to IEC 60320 C13 10A/250V 1.8 meter- China (excluding Hong Kong and Macau)

AC Power Cable IS 1293 to IEC 60320 C13 10A/250V 1.8 meter- India

AC Power Cable CEI 23-50 P11 to IEC 60320 C13 10A/250V 1.8 meter- Italy

AC Power Cable JIS C 8303 Class I to IEC 60320 C13 10A/250V 1.8 meter - Japan

AC Power Cable SANS 164-1 to IEC 60320 C13 10A/250V 1.8 meter- South Africa

LC-LC Single Mode Fiber cable, 6 meter length

LC-LC Single Mode Fiber cable, 12 meter length

LC-LC Single Mode Fiber cable, 3 meter length

LC-SC Single Mode Fiber cable, 6 meter length

LC-SC Single Mode Fiber cable, 12 meter length
LC-SC Single Mode Fiber cable, 3 meter length
LC-LC Multi Mode Fiber cable, 6 meter length
LC-LC Multi Mode Fiber cable, 12 meter length
LC-LC Multi Mode Fiber cable, 3 meter length
LC-SC Multi Mode Fiber cable, 6 meter length
LC-SC Multi Mode Fiber cable, 12 meter length
LC-SC Multi Mode Fiber cable, 3 meter length
Category-6 RJ45 6 meter length
Category-6 RJ45 12 meter length
Category-6 RJ45 3 meter length
7210 RPS INTERPOSER DCIN 12V 450WOUT
1-port 10GBASE-BX20-U (Up-Stream) Bi-Directional (BiDi) Small Form-Factor Pluggable (XFP) Optics Module, Single Mode Fiber (SMF), 20km, TX:1330 nm, RX: 1270 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 compliant, Temperature -40/85C
1-port 10GBASE-BX20-D (Down-Stream) Bi-Directional (BiDi) Small Form-Factor Pluggable (XFP) Optics Module, Single Mode Fiber (SMF), 20km, TX: 1270 nm, RX: 1330 nm, LC Connector, Digital Diagnostic Monitor (DDM), RoHS 6/6 Compliant, Temperature -40/85C
SYS - 210 WBX 32QSFP28, DC System, Back to Front Includes; (1) 3HE11881AB SYS - 210 WBX 32QSFP28, base platform (2) 3HE11883AA PS - 210 WBX -48V DC (BtoF) (5) 3HE11888AA FAN - 210 WBX Fan Tray (BtoF) (1) 3HE14104AA ACC – Rail-kit (fits 19" RM and 21" OR Rack)
SYS - 210 WBX 32QSFP28, DC System, Front to Back Includes; (1) 3HE11881AB SYS - 210 WBX 32QSFP28 base platform (2) 3HE10837AA PS - 210 WBX, 7210 Sx 100G -48VDC (FtoB) (5) 3HE11887AA FAN - 210 WBX Fan (FtoB) (1) 3HE14104AA ACC – Rail-kit (fits 19" and 21" OR Rack)
SYS - 210 WBX 32QSFP28, AC System, Back to Front Includes; (1) 3HE11881AB SYS - 210 WBX 32QSFP28 base platform (2) 3HE11885AA PS - 210 WBX AC (BtoF) (5) 3HE11888AA FAN - 210 WBX Fan Tray (BtoF) (1) 3HE14104AA ACC – Rail-kit (fits 19" RM and 21" OR Rack)
SYS - 210 WBX 32QSFP28, AC System, Front to Back Includes; (1) 3HE11881AB SYS - 210 WBX 32QSFP28 base platform (2) 3HE11886AA PS - 210 WBX -AC (FtoB) (5) 3HE11887AA FAN - 210 WBX Fan (FtoB) (1) 3HE14104AA ACC – Rail-kit (fits 19" RM and 21" OR Rack)
1/2" RF coax grounding kit (includes grounding clamp and cable; butyl rubber tape; PVC tape)
APEQ-AC-4400 Advanced Power Equalizer Module. Accepts two redundant feeds
APEQ-HVDC-4400 High Voltage DC Advanced Power Equalizer Module. Accepts two redundant feeds
7750 SR-s 16-ports SFP-DD (10/25/100G) + 4-ports QSFP28 (10/40/100G) MDA-s. Accepts (16) 10/25/100GBase Optic Module SFP+/SFP28/SFP-DD + (4) 10/40/100GBase Optic Module QSFP+/QSFP28.
Power backup module for the 7705 SAR-Hm family. Includes enclosure, smart controller/charger, 7.2Ah battery, AC/DC adapter.
Battery replacement for 3HE12552AA. 7.2 Ah VRLA battery.
7250 IXR-6 SRLinux System License 19.x – one per system
7250 IXR-6 SR Linux System license 21.x – one per system requiring base level functionality. Supplied with media.

VSR-a SN7 R21 AC Appliance is a configuration which includes one (1) AirFrame Server Node (NDCHW1286) AC server, one (1) R21.2 VSR-a Application Software License, one (1) ASL VSR 1 Gbps BW w Standard QoS and one (1) HostOS RHEL Subscription. This bundle does not include cables such as power, console or Cat6 nor does it include SFP+ hardware. All application specific VSR licenses and additional QoS licenses are required to be purchased in addition to the base system functionality provided by the appliance.
VSR-a SN7 R21 DC Appliance is a configuration which includes one (1) AirFrame Server Node (NDCHW1331) DC server, one (1) R21.2 VSR-a Application Software License, one (1) ASL VSR 1 Gbps BW w Standard QoS, two (2) DC Power Supply Cables (3HE12032AA) and one (1) HostOS RHEL Subscription. This bundle does not include cables such as console or Cat6 nor does it include SFP+ hardware. All application specific VSR licenses and additional QoS licenses are required to be purchased in addition to the base system functionality provided by the appliance.
VSR-a SN8 R21 AC Appliance is a configuration which includes one (1) AirFrame Server Node (NDCHW2347) AC server, one (1) R21.2 VSR-a Application Software License, one (1) ASL VSR 10 Gbps BW w Standard QoS and one (1) HostOS RHEL Subscription. This bundle does not include cables such as power, console or Cat6 nor does it include SFP+ hardware. All application specific VSR licenses and additional QoS licenses are required to be purchased in addition to the base system functionality provided by the appliance.
VSR-a SN8 R21 DC Appliance is a configuration which includes one (1) AirFrame Server Node (NDCHW2349) DC server, one (1) R21.2 VSR-a Application Software License, one (1) ASL VSR 10 Gbps BW w Standard QoS, two (2) DC Power Supply Cables (3HE12032AA) and one (1) HostOS RHEL Subscription. This bundle does not include cables such as console or Cat6 nor does it include SFP+ hardware. All application specific VSR licenses and additional QoS licenses are required to be purchased in addition to the base system functionality provided by the appliance.
Nuage Virtualized Network Services (VNS) Right-To-Use license for hosting one Virtual Network Functions (VNF) on Network Service Gateway (NSG)
Nuage Virtualized Services Directory (VSD) network-wide license for lifecycle management for 500 Virtual Network Functions (VNF)
Nuage 7850 Network Services Gateway – Ethernet 200/300 (NSG-E200/E300) is powered with 2 dual 10G ports supporting 10/100/1000BASE-X and 10/100/1000BASE-T Gigabit Ethernet, 4 LAN 10/100/1000BASE-T Gigabit Ethernet ports, integrated WiFi access point, USB, and RJ-45 console. Included in bundle is qty=1 3HE11925AA AC power supply. One C13 power cord must be purchased separately. Only to be sold in conjunction with Nuage Virtualized Network Services (VNS) software.
Rack mount kit for a single Nuage 7850 Network Services Gateway – Ethernet 200/300 (NSG-E200/E300). Designed for 19” racks and is 1U high. Rack screws are not included and M5 is the maximum usable screw size.
7210 SAS-S Non-PoE RPS interconnect
7210 SAS-S PoE RPS interconnect
7705 SAR-Hm/Hmc Release 21.x OS Upgrade for the basic suite of functionality. One (1) OS Upgrade is required for each SAR-Hm/Hmc in the network. See the optional RTUs available for additional advanced features. This SW RTU license is intangible. Nothing physical is shipped. If a paper copy is required, a certificate document may be printed by following the process outlined in document code “SWSC-DEL-L4-10” found at http://libra.app.alcatel-lucent.com/ .
OS - 7210 SAS-K 3SFP+ 8C ETR, Release 20.X Base OS License / Native and MPLS Ethernet L2 VPNs License.
This is a per chassis license valid for release 20.X. It provides the Base OS and includes support for native and MPLS-based Ethernet services (e.g. Layer-2 VPLS and Epipe services). It also includes support for syncE and PTP.
It excludes the use IP services (e.g. VPRNs and IES services).
It must also be purchased for upgrade to release 20.X. It will shipped on a SD Card.
OS - 7210 SAS-K 3SFP+ 8C ETR, Release 21.X Base OS License / Native and MPLS Ethernet L2 VPNs License.
This is a per chassis license valid for release 21.X. It provides the Base OS and includes support for native and MPLS-based Ethernet services (e.g. Layer-2 VPLS and Epipe services). It also includes support for syncE and PTP.
It excludes the use IP services (e.g. VPRNs and IES services).
It must also be purchased for upgrade to release 21.X. It will shipped on a SD Card.

Rack mounted panel perforated to allow airflow through it, typically used as part of slide mounting the unit in a rack

OS - 7210 SAS-Mxp, Release 20.X Base OS License, Satellite Mode.

This is a per chassis license for release 20.X. It allows for operating the chassis in satellite mode. It is required to operate 7210 SAS-Mxp ETR and non-ETR chassis, in satellite mode.

It excludes the use standalone mode of operation.

It must also be purchase for upgrade to release 20.X.

Includes one (1) programmed 2GB Compact Flash cards with the Operating Software.

OS - 7210 SAS-Mxp, Release 21.X Base OS License, Satellite Mode.

This is a per chassis license for release 21.X. It allows for operating the chassis in satellite mode. It is required to operate 7210 SAS-Mxp ETR and non-ETR chassis, in satellite mode.

It excludes the use standalone mode of operation.

It must also be purchase for upgrade to release 21.X.

Includes one (1) programmed 2GB Compact Flash cards with the Operating Software.

7750 SR 16-ports 10/25GGBASE MACsec + 2-ports 10/40/100GBase MDA-e-XP. Accepts sixteen (16) 10/25GBase Optic Module SFP+/SFP28 + two (2) 10/40/100GBase QSFP+/QSFP28 pluggable optics.

AC Power cable with SAF-D-GRID 300 (Key C) T Latch to NEMA L6-30P 10 AWG, 3m length for NA

OS - 7210 SAS-Dxp 2SFP+ 4F6T, Release 20.X Base OS license / Native Ethernet L2 VPNs license.

This license is required for both 7210 SAS-Dxp ETR and non-ETR variants.

This is a per chassis license valid for release 20.X. It provides the Base OS and includes support for native Ethernet services (e.g. Layer-2 VPLS and Epipe services).

It must be also purchased for upgrade to release 20.X. It will shipped on a SD Card.

OS - 7210 SAS-Dxp 2SFP+ 4F6T, Release 21.X Base OS license / Native Ethernet L2 VPNs license.

This license is required for both 7210 SAS-Dxp ETR and non-ETR variants.

This is a per chassis license valid for release 21.X. It provides the Base OS and includes support for native Ethernet services (e.g. Layer-2 VPLS and Epipe services).

It must be also purchased for upgrade to release 21.X. It will shipped on a SD Card.

7750 SR-s 8-ports SFP-DD (10/25/100G) MACsec + 2-ports QSFP28 (10/40/100G) MDA-s. Accepts (8) 10/25/100GBase Optic Module SFP+/SFP28/SFP-DD + (2) 10/40/100GBase QSFP+/QSFP28.

7250 IXR-10 SRLinux System License 19.x – one per system

7250 IXR-10 SR Linux System license 20.x – one per system requiring base level functionality. Supplied with media.

7250 IXR-10 SR Linux System license 21.x – one per system requiring base level functionality. Supplied with media.

7250 IXR Large variants Release 21.x Operating Software License. Notes: One (1) Operating Software License is required for each IXR-6/10/R6/s/Xs/X1 in the network. Includes programmed media with the Operating Software.

7250 IXR Large variants Release 21.x Operating Software License with ZTP enabled. Notes: One (1) Operating Software License is required for each IXR-6/10/R6/s/Xs/X1 in the network. Includes programmed media with the Operating

7250 IXR Medium variants Release 21.x Operating Software License. Notes: One (1) Operating Software License is required for each IXR-R4, IXR-e (2p 100G, 8p 25G, 24p 10G including GNSS variants) in the network. Includes programmed media with the Operating Software.

7250 IXR Medium variants Release 21.x Operating Software License with ZTP enabled. Notes: One (1) Operating Software License is required for each IXR-R4, IXR-e (2p 100G, 8p 25G, 24p 10G including GNSS variants) in the network. Includes programmed media with the Operating Software.

7250 IXR Small variants Release 20.x Operating Software License. Notes: One (1) Operating Software License is required for each IXR-e (14p 10G, 4p Tx including GNSS variants), IXR-ec in the network. Includes programmed media with the Operating Software.
7250 IXR Small variants Release 21.x Operating Software License with ZTP enabled. Notes: One (1) Operating Software License is required for each IXR-e (14p 10G, 4p Tx including GNSS variants), IXR-ec in the network. Includes programmed media with the Operating Software.
7250 IXR-6/10 SR Linux 20.x Linecard license – one per deployed linecard
7250 IXR-6/10 SR Linux 21.x Linecard license – one per deployed linecard
Release 21.x Operating Software License with support for base features and scaling. One (1) Operating Software License is required for each node in the network. Includes two (2) programmed 4GB Compact Flash cards and two (2) 4GB SD cards with the Operating Software.
SR-OS License for the following Platforms; 7750 SR-a4/a8 7750 SR-1e/2e/3e 7750 SR-1/7/12/12e 7750 SR-1s/2s/7s/14s
Additional functionality and scale are available via additional licenses. Release 21.x ZTP - Zero Touch Provisioning - Operating Software License with support for base features and scaling. One (1) Operating Software License is required for each node in the network. Includes two (2) programmed 4GB Compact Flash cards with the Operating Software.
SR-OS License for the following Platforms; 7750 SR-1e 7750 SR-1 7750 SR-1s/2s/7s/14s
Additional functionality and scale are available via additional licenses.
ESA - 7750 SR Extended Services Appliance 100G which provides extended compute functions. AC power. This bundle does not include power cables or QSFP hardware.
ESA - 7750 SR Extended Services Appliance 100G which provides extended compute functions (no Encryption). AC power. This bundle does not include power cables or QSFP hardware.
ESA - 7750 SR Extended Services Appliance 100G which provides extended compute functions. DC Power. This bundle does not include QSFP hardware.
ESA - 7750 SR Extended Services Appliance 100G which provides extended compute functions (no Encryption). DC Power. This bundle does not include QSFP hardware.
7220 IXR-D2/3 SR Linux Enhanced scale add-on license - one per system requiring enhanced scale
7220 IXR-H2/3 SR Linux Enhanced scale add-on license - one per system requiring enhanced scale
7220 IXR-H2 with 2 PS DC, FtoB complete chassis bundle with all common hardware including: (1) 3HE16421AA - SYS - 7220 IXR-H2 128QSFP28 (2) 3HE16426AA - PS - 7220 IXR-H2 128QSFP28 -48VDC, FtoB (8) 3HE16430AA - FAN - 7220 IXR-H2 128QSFP28, FtoB (1) 3HE16662AA - ACC - Rail-Kit for 7220 IXR-H2
7220 IXR-H2 with 2 PS DC, BtoF complete chassis bundle with all common hardware including: (1) 3HE16421AA - SYS - 7220 IXR-H2 128QSFP28 (2) 3HE16427AA - PS - 7220 IXR-H2 128QSFP28 -48VDC, BtoF (8) 3HE16431AA - FAN - 7220 IXR-H2 128QSFP28, BtoF (1) 3HE16662AA - ACC - Rail-Kit for 7220 IXR-H2
7220 IXR-H2 with 2 PS AC, FtoB complete chassis bundle with all common hardware including: (1) 3HE16421AA - SYS - 7220 IXR-H2 128QSFP28 (2) 3HE16428AA - PS - 7220 IXR-H2 128QSFP28 AC, FtoB (8) 3HE16430AA - FAN - 7220 IXR-H2 128QSFP28, FtoB (1) 3HE16662AA - ACC - Rail-Kit for 7220 IXR-H2

7220 IXR-H2 with 2 PS AC, BtoF complete chassis bundle with all common hardware including: (1) 3HE16421AA - SYS - 7220 IXR-H2 128QSFP28 (2) 3HE16429AA - PS - 7220 IXR-H2 128QSFP28 AC, BtoF (8) 3HE16431AA - FAN - 7220 IXR-H2 128QSFP28, BtoF (1) 3HE16662AA - ACC - Rail-Kit for 7220 IXR-H2
7220 IXR-H3 with 1 PS DC, FtoB complete chassis bundle with all common hardware including: (1) 3HE16425AA - SYS - 7220 IXR-H3 32QSFPDD 2SFP+ (1) 3HE16432AA - PS - 7220 IXR-H3 32QSFPDD -48VDC, FtoB (6) 3HE16436AA - FAN - 7220 IXR-H3 32QSFPDD, FtoB
7220 IXR-H3 with 1 PS DC, BtoF complete chassis bundle with all common hardware including: (1) 3HE16425AA - SYS - 7220 IXR-H3 32QSFPDD 2SFP+ (1) 3HE16433AA - PS - 7220 IXR-H3 32QSFPDD -48VDC, BtoF (6) 3HE16437AA - FAN - 7220 IXR-H3 32QSFPDD, BtoF
7220 IXR-H3 with 1 PS AC, FtoB complete chassis bundle with all common hardware including: (1) 3HE16425AA - SYS - 7220 IXR-H3 32QSFPDD 2SFP+ (1) 3HE16434AA - PS - 7220 IXR-H3 32QSFPDD AC, FtoB (6) 3HE16436AA - FAN - 7220 IXR-H3 32QSFPDD, FtoB
7220 IXR-H3 with 1 PS AC, BtoF complete chassis bundle with all common hardware including: (1) 3HE16425AA - SYS - 7220 IXR-H3 32QSFPDD 2SFP+ (1) 3HE16435AA - PS - 7220 IXR-H3 32QSFPDD AC, BtoF (6) 3HE16437AA - FAN - 7220 IXR-H3 32QSFPDD, BtoF
SYS - 7220 IXR-H2 128QSFP28, base platform. Does not include fans or power supplies
SYS - 7220 IXR-H3 32QSFPDD 2SFP+, base platform. Does not include fans or power supplies
7250 IXR-6 SR Linux - Services 20.x – one per system requiring services level functionality (includes system license functionality). Supplied with media.
7250 IXR-6 SR Linux - Services 21.x – one per system requiring services level functionality (includes system license functionality). Supplied with media.
7250 IXR-10 SR Linux - Services 20.x – one per system requiring services level functionality (includes system license functionality). Supplied with media.
7250 IXR-10 SR Linux - Services 21.x – one per system requiring services level functionality (includes system license functionality). Supplied with media.
7250 IXR-6 SR Linux - Advanced 20.x – one per system requiring advanced level functionality (includes services and system license functionality). Supplied with media.
7250 IXR-6 SR Linux - Advanced 21.x – one per system requiring advanced level functionality (includes services and system license functionality). Supplied with media.
7250 IXR-10 SR Linux - Advanced 20.x – one per system requiring advanced level functionality (includes services and system license functionality). Supplied with media.
7250 IXR-10 SR Linux - Advanced 21.x – one per system requiring advanced level functionality (includes services and system license functionality). Supplied with media.
7250 IXR-10 SR Linux Enhanced Scale – one per system

MPL (GLP) \$USD	DISCOUNT	UNIT PRICE	Status
\$ 950.00	35%	\$ 617.50	Removed
\$ 4,200.00	35%	\$ 2,730.00	Removed
\$ 4,750.00	35%	\$ 3,087.50	Removed
\$ 850.00	35%	\$ 552.50	Removed
\$ 750.00	35%	\$ 487.50	Removed
\$ 18,000.00	35%	\$ 11,700.00	Removed
\$ 20,200.00	35%	\$ 13,130.00	Removed
\$ 21,000.00	35%	\$ 13,650.00	Removed
\$ 23,550.00	35%	\$ 15,307.50	Removed
\$ 1,400.00	35%	\$ 910.00	Removed
\$ 2,300.00	35%	\$ 1,495.00	Removed
\$ 13,200.00	35%	\$ 8,580.00	Removed
\$ 14,800.00	35%	\$ 9,620.00	Removed
\$ 1,500.00	35%	\$ 975.00	Removed
\$ 9,500.00	35%	\$ 6,175.00	Removed
\$ 10,650.00	35%	\$ 6,922.50	Removed
\$ 3,995.00	35%	\$ 2,596.75	Removed
\$ 19,995.00	35%	\$ 12,996.75	Removed

\$ 25,000.00	35%	\$ 16,250.00	Removed
\$ 0.10	35%	\$ 0.07	Removed
\$ 5,000.00	35%	\$ 3,250.00	Removed
\$ 5,000.00	35%	\$ 3,250.00	Removed
\$ 5,000.00	35%	\$ 3,250.00	Removed
\$ 5,000.00	35%	\$ 3,250.00	Removed
\$ 5,000.00	35%	\$ 3,250.00	Removed
\$ 5,000.00	35%	\$ 3,250.00	Removed
\$ 5,000.00	35%	\$ 3,250.00	Removed
\$ 5,000.00	35%	\$ 3,250.00	Removed
\$ 1,200.00	35%	\$ 780.00	Removed
\$ 5,200.00	35%	\$ 3,380.00	Removed
\$ 5,850.00	35%	\$ 3,802.50	Removed
\$ 10,200.00	35%	\$ 6,630.00	Removed
\$ 11,450.00	35%	\$ 7,442.50	Removed
\$ 9,500.00	35%	\$ 6,175.00	Removed
\$ 13,200.00	35%	\$ 8,580.00	Removed
\$ 12,000.00	35%	\$ 7,800.00	Removed
\$ 12,000.00	35%	\$ 7,800.00	Removed
\$ 13,500.00	35%	\$ 8,775.00	Removed
\$ 13,450.00	35%	\$ 8,742.50	Removed
\$ 3,700.00	35%	\$ 2,405.00	Removed
\$ 5,300.00	35%	\$ 3,445.00	Removed
\$ 450.00	35%	\$ 292.50	Removed
\$ 2,500.00	35%	\$ 1,625.00	Removed
\$ 3,050.00	35%	\$ 1,982.50	Removed
\$ 5,000.00	35%	\$ 3,250.00	Removed
\$ 3,060.00	35%	\$ 1,989.00	Removed
\$ 450.00	35%	\$ 292.50	Removed
\$ 9,500.00	35%	\$ 6,175.00	Removed

\$ 5,000.00	35%	\$ 3,250.00	Removed
\$ 6,225.00	35%	\$ 4,046.25	Removed
\$ 8,075.00	35%	\$ 5,248.75	Removed
\$ 300,000.00	35%	\$ 195,000.00	Removed
\$ 7,050.00	35%	\$ 4,582.50	Removed
\$ 6,475.00	35%	\$ 4,208.75	Removed
\$ 6,750.00	35%	\$ 4,387.50	Removed
\$ 8,600.00	35%	\$ 5,590.00	Removed
\$ 8,700.00	35%	\$ 5,655.00	Removed
\$ 8,875.00	35%	\$ 5,768.75	Removed
\$ 6,740.00	35%	\$ 4,381.00	Removed
\$ 6,740.00	35%	\$ 4,381.00	Removed
\$ 6,740.00	35%	\$ 4,381.00	Removed
\$ 8,700.00	35%	\$ 5,655.00	Removed

\$ 8,720.00	35%	\$ 5,668.00	Removed
\$ 8,720.00	35%	\$ 5,668.00	Removed
\$ 110,000.00	35%	\$ 71,500.00	Removed
\$ 85,000.00	35%	\$ 55,250.00	Removed
\$ 3,500.00	35%	\$ 2,275.00	Removed
\$ 3,500.00	35%	\$ 2,275.00	Removed
\$ 160,000.00	35%	\$ 104,000.00	Removed
\$ 3,300.00	35%	\$ 2,145.00	Removed
\$ 250,000.00	35%	\$ 162,500.00	Removed
\$ 18,000.00	35%	\$ 11,700.00	Removed
\$ 30,000.00	35%	\$ 19,500.00	Removed
\$ 9,300.00	35%	\$ 6,045.00	Removed

\$ 35,000.00	35%	\$ 22,750.00	Removed
\$ 35,500.00	35%	\$ 23,075.00	Removed
\$ 44,000.00	35%	\$ 28,600.00	Removed
\$ 44,500.00	35%	\$ 28,925.00	Removed
\$ 2,500.00	35%	\$ 1,625.00	Removed
\$ 3,350.00	35%	\$ 2,177.50	Removed
\$ 9,500.00	35%	\$ 6,175.00	Removed
\$ 9,500.00	35%	\$ 6,175.00	Removed
\$ 16,350.00	35%	\$ 10,627.50	Removed
\$ 3,650.00	35%	\$ 2,372.50	Removed
\$ 1,575.00	35%	\$ 1,023.75	Removed
\$ 14,550.00	35%	\$ 9,457.50	Removed
\$ 900.00	35%	\$ 585.00	Removed
\$ 900.00	35%	\$ 585.00	Removed

\$ 225.00	35%	\$ 146.25	Removed
\$ 225.00	35%	\$ 146.25	Removed
\$ 30,000.00	35%	\$ 19,500.00	Removed
\$ 900.00	35%	\$ 585.00	Removed
\$ 900.00	35%	\$ 585.00	Removed
\$ 185.00	35%	\$ 120.25	Removed
\$ 1,250.00	35%	\$ 812.50	Removed
\$ 185.00	35%	\$ 120.25	Removed
\$ 2,078.00	35%	\$ 1,350.70	Removed
\$ 275,000.00	35%	\$ 178,750.00	Removed
\$ 275,000.00	35%	\$ 178,750.00	Removed

\$ 38,600.00	35%	\$ 25,090.00	Removed
\$ 225.00	35%	\$ 146.25	Removed
\$ 225.00	35%	\$ 146.25	Removed
\$ 700.00	35%	\$ 455.00	Removed
\$ 700.00	35%	\$ 455.00	Removed
\$ 1,000.00	35%	\$ 650.00	Removed
\$ 1,000.00	35%	\$ 650.00	Removed
\$ 500.00	35%	\$ 325.00	Removed
\$ 500.00	35%	\$ 325.00	Removed
\$ 50,000.00	35%	\$ 32,500.00	Removed
\$ 20,000.00	35%	\$ 13,000.00	Removed

\$ 25,000.00	35%	\$ 16,250.00	Removed
\$ 705,000.00	35%	\$ 458,250.00	Removed
\$ 533,000.00	35%	\$ 346,450.00	Removed
\$ 350.00	35%	\$ 227.50	Removed
\$ 350.00	35%	\$ 227.50	Removed
\$ 5,000.00	35%	\$ 3,250.00	Removed

\$ 5,000.00	35%	\$ 3,250.00	Removed
\$ 2,000.00	35%	\$ 1,300.00	Removed
\$ 2,000.00	35%	\$ 1,300.00	Removed
\$ 6,516.00	35%	\$ 4,235.40	Removed
\$ 3,028.00	35%	\$ 1,968.20	Removed
\$ 2,832.00	35%	\$ 1,840.80	Removed
\$ 550.00	35%	\$ 357.50	Removed
\$ 550.00	35%	\$ 357.50	Removed
\$ 12,200.00	35%	\$ 7,930.00	Removed
\$ 30.00	35%	\$ 19.50	Removed
\$ 30.00	35%	\$ 19.50	Removed
\$ 30.00	35%	\$ 19.50	Removed
\$ 30.00	35%	\$ 19.50	Removed
\$ 30.00	35%	\$ 19.50	Removed
\$ 30.00	35%	\$ 19.50	Removed
\$ 30.00	35%	\$ 19.50	Removed
\$ 75.00	35%	\$ 48.75	Removed
\$ 75.00	35%	\$ 48.75	Removed
\$ 70.00	35%	\$ 45.50	Removed
\$ 75.00	35%	\$ 48.75	Removed

\$ 75.00	35%	\$ 48.75	Removed
\$ 70.00	35%	\$ 45.50	Removed
\$ 75.00	35%	\$ 48.75	Removed
\$ 75.00	35%	\$ 48.75	Removed
\$ 70.00	35%	\$ 45.50	Removed
\$ 75.00	35%	\$ 48.75	Removed
\$ 75.00	35%	\$ 48.75	Removed
\$ 40.00	35%	\$ 26.00	Removed
\$ 70.00	35%	\$ 45.50	Removed
\$ 100.00	35%	\$ 65.00	Removed
\$ 30.00	35%	\$ 19.50	Removed
\$ 4,248.00	35%	\$ 2,761.20	Removed
\$ 9,995.00	35%	\$ 6,496.75	Removed
\$ 9,995.00	35%	\$ 6,496.75	Removed
\$ 16,800.00	35%	\$ 10,920.00	Removed
\$ 16,800.00	35%	\$ 10,920.00	Removed
\$ 15,540.00	35%	\$ 10,101.00	Removed
\$ 15,540.00	35%	\$ 10,101.00	Removed
\$ 200.00	35%	\$ 130.00	Removed
\$ 10,000.00	35%	\$ 6,500.00	Removed
\$ 13,700.00	35%	\$ 8,905.00	Removed
\$ 335,000.00	35%	\$ 217,750.00	Removed
\$ 750.00	35%	\$ 487.50	Removed
\$ 400.00	35%	\$ 260.00	Removed
\$ 25,000.00	35%	\$ 16,250.00	Removed
\$ 25,000.00	35%	\$ 16,250.00	Removed

\$ 28,000.00	35%	\$ 18,200.00	Removed
\$ 30,000.00	35%	\$ 19,500.00	Removed
\$ 66,000.00	35%	\$ 42,900.00	Removed
\$ 68,000.00	35%	\$ 44,200.00	Removed
\$ 75.00	35%	\$ 48.75	Removed
\$ 9,995.00	35%	\$ 6,496.75	Removed
\$ 1,645.00	35%	\$ 1,069.25	Removed
\$ 125.00	35%	\$ 81.25	Removed
\$ 1,068.00	35%	\$ 694.20	Removed
\$ 1,212.00	35%	\$ 787.80	Removed
\$ 450.00	35%	\$ 292.50	Removed
\$ 600.00	35%	\$ 390.00	Removed
\$ 600.00	35%	\$ 390.00	Removed

\$ 55.00	35%	\$ 35.75	Removed
\$ 500.00	35%	\$ 325.00	Removed
\$ 500.00	35%	\$ 325.00	Removed
\$ 120,000.00	35%	\$ 78,000.00	Removed
\$ 700.00	35%	\$ 455.00	Removed
\$ 450.00	35%	\$ 292.50	Removed
\$ 450.00	35%	\$ 292.50	Removed
\$ 170,000.00	35%	\$ 110,500.00	Removed
\$ 25,000.00	35%	\$ 16,250.00	Removed
\$ 25,000.00	35%	\$ 16,250.00	Removed
\$ 25,000.00	35%	\$ 16,250.00	Removed
\$ 10,000.00	35%	\$ 6,500.00	Removed
\$ 11,500.00	35%	\$ 7,475.00	Removed
\$ 3,000.00	35%	\$ 1,950.00	Removed
\$ 3,500.00	35%	\$ 2,275.00	Removed

\$ 1,000.00	35%	\$ 650.00	Removed
\$ 1,500.00	35%	\$ 975.00	Removed
\$ 10,000.00	35%	\$ 6,500.00	Removed
\$ 10,000.00	35%	\$ 6,500.00	Removed
\$ 10,000.00	35%	\$ 6,500.00	Removed
\$ 11,000.00	35%	\$ 7,150.00	Removed
\$ 40,000.00	35%	\$ 26,000.00	Removed
\$ 40,000.00	35%	\$ 26,000.00	Removed
\$ 40,000.00	35%	\$ 26,000.00	Removed
\$ 40,000.00	35%	\$ 26,000.00	Removed
\$ 10,000.00	35%	\$ 6,500.00	Removed
\$ 10,000.00	35%	\$ 6,500.00	Removed
\$ 93,939.43	35%	\$ 61,060.63	Removed
\$ 93,939.43	35%	\$ 61,060.63	Removed
\$ 93,178.43	35%	\$ 60,565.98	Removed

\$ 93,178.43	35%	\$ 60,565.98	Removed
\$ 45,834.25	35%	\$ 29,792.26	Removed
\$ 45,988.00	35%	\$ 29,892.20	Removed
\$ 45,515.33	35%	\$ 29,584.96	Removed
\$ 45,669.08	35%	\$ 29,684.90	Removed
\$ 87,276.63	35%	\$ 56,729.81	Removed
\$ 42,722.01	35%	\$ 27,769.31	Removed
\$ 40,000.00	35%	\$ 26,000.00	Removed
\$ 40,000.00	35%	\$ 26,000.00	Removed
\$ 40,000.00	35%	\$ 26,000.00	Removed
\$ 40,000.00	35%	\$ 26,000.00	Removed
\$ 40,000.00	35%	\$ 26,000.00	Removed
\$ 60,000.00	35%	\$ 39,000.00	Removed
\$ 60,000.00	35%	\$ 39,000.00	Removed
\$ 60,000.00	35%	\$ 39,000.00	Removed
\$ 60,000.00	35%	\$ 39,000.00	Removed
\$ 25,000.00	35%	\$ 16,250.00	Removed



CODE / PN	PRODUCT / DESCRIPTION	MPL (GLP) \$USD	DISCOUNT
105412522	CA E-KS-24227,L1 26GA RE00 UNDERWRITERS*	\$ 0.36	50%
105412530	CA E-812A 4/26 RVAR	\$ 0.19	50%
105412928	COPPER CABLE 286A TINNED 4 PAIR, 24AWG	\$ 0.19	50%
105412951	COPPER CABLE 286A TINNED 8 PAIR, 24AWG	\$ 0.72	50%
106038029	GROM-001-GROM-016 1/16IN*	\$ 3.72	50%
106312523	OPTICAL ATTENUATOR,A3010	\$ 6.91	50%
106989098	CA E-WP-94077,L2 6PR 22GA CUT TO ORDER *	\$ 1.73	50%
107504219	KIT-001-TAPE-MKR CM LBL *	\$ 58.82	50%
108072489	ADAPTER ASSEMBLY, C1101A-2	\$ 9.89	50%
108672874	CA E-1175ARD 1/22 RVAR 1	\$ 0.50	50%
108672890	T1/DS1, 1175A, 22AWG, 1PR, Gray jacket	\$ 0.49	50%
109080473	CABLE ASSEMBLY,LCCADS-A-AB-AB-150	\$ 254.14	50%
109342246	FI SIM 3.0 SM FC-FC 20M	\$ 15.29	50%
109373266	FI SIM 1.6 SM LC-LC 3M	\$ 10.86	50%
109543835	CA ASSY-LWSCC3-12-BS-NC-E/W COAX CONNZD*	\$ 94.22	50%
109544171	CABLE ASSY*COAX	\$ 94.22	50%
109546515	CA E-LWS09 8COND 24GA NON-CONN 300V CUS*	\$ 0.43	50%
109546606	CA E-LWS56 8COND 24GA NON-CONN 300V CUS	\$ 0.59	50%
109546754	CA ASSY-LWSES09-O-RJ-RJ-E/W SGNL CONNZD*	\$ 5.11	50%
109546952	CA ASSY-LWSES26-B-RS-RS-E/W SGNL CONNZD*	\$ 10.09	50%
109547042	CA ASSY-S56ORREW SGNL CONNZD OFT 300V 8*	\$ 13.44	50%
109547059	CA ASSY-LWSES59-O-RJ-RJ-E/W SGNL CONNZD	\$ 8.12	50%
109552430	CA ASSY-LWSE16-O-RS-RS-E/W SGNL CONNZD*	\$ 7.16	50%
109552455	CA ASSY-LWSES16-O-RS-RS-E/W SGNL CONNZD*	\$ 22.32	50%
109552463	CA ASSY-LWSES16-B-RS-RS-E/W SGNL CONNZD*	\$ 10.92	50%
109592915	CLI-LWSMC-2-A40LC-LC-E/W 2UN SGL MODE 0*	\$ 41.09	50%
109602201	CLB-LWSMC-001C-SRB (OFS#108834169) 1UN *	\$ 0.44	50%
109608604	CABLE ASSEMBLY, LWSE13-O-RS-RS-E/W, SIG	\$ 9.96	50%
109608646	CABLE ASSEMBLY, LWSE14-O-RS-RS-E/W, SIG	\$ 9.23	50%
109608711	CABLE ELECTRONIC, LWS13, 8 COND, 24 GA,	\$ 0.82	50%
109608745	CA E-LWS14 8COND 24GA NON-CONN 300V CUS*	\$ 0.82	50%
109617241	FIBER OPTIC CABLE INTERCONNECTION, LWSM6	\$ 81.18	50%
109619478	CLI-LWSA5-2-SCSC-E/W 2UN MULT OFT CUST *	\$ 57.00	50%
109619502	CLI-LWSA5-2-LCLC-E/W 2UN MULT OFT CUST *	\$ 65.40	50%
109624387	CA E-LWS54 8COND 24GA NON-CONN 300V CUS*	\$ 0.59	50%
109624429	CA ASSY-LWSES54-O-RJ-RJ-E/W SGNL CONNZD*	\$ 8.61	50%
109656637	CA SM SX LC-LC, LWSMC2B	\$ 84.48	50%
109661959	CA ASSY-LWSES66-O-RS-RS-E/W SGNL CONNZD	\$ 28.08	50%
109673483	CA E-LWS19 4PR 24GA NON-CONN 300V CUST *	\$ 0.82	50%
109673517	CA ASSY-LWSES19-O-RS-RS-E/W SGNL CONNZD*	\$ 9.23	50%
109673533	CABLE ASSY,LWSES19-G-RS-RS-E/W,SHIELDED,	\$ 10.09	50%
109673558	CABLE ASSY,LWSE19-O-RS-RS-E/W,SHIELDED,	\$ 9.23	50%
109674002	2F, Indoor, SM-BIF, OFNR, 2.9mm OD SubUn	\$ 50.11	50%
109708958	CA E-LWS64 8COND 24GA NON-CONN 300V CUS*	\$ 0.96	50%
109730002	CA E-LWS12 4PR 24GA NON-CONN 300V CUST *	\$ 0.82	50%
109730036	CA ASSY-LWSES12-O-RS-RS-E/W SGNL CONNZD*	\$ 19.07	50%
109743195	CA ASSY-LWSES64-O-RS-RS-EW SGNL CONNZD *	\$ 28.56	50%
109766063	FEE,1830PSS,3 YEAR SW SUBSCRIPTION	Custom Bid	0%

109767749	FEE,1830PSS,1 YEAR SW SUBSCRIPTION	Custom Bid	0%
109767756	FEE,1830PSS-1/PSS-4,1 YR SW SUBSCRIPTION	\$ 1,700.00	50%
109767764	FEE,1830PSS-1/PSS-4,3 YR SW SUBSCRIPTION	\$ 5,000.00	50%
109780270	FEE,1830PSS,SW UPGRADE	\$ 1,200.00	50%
109780288	FEE,1830PSS-4,SW UPGRADE	\$ 500.00	50%
109781146	1AB187280001, RU OPTO TRX SFP 1GBE LX	\$ 233.00	50%
109781450	FEE, 1354RM-PHM, 1 YEAR SW SUBSCRIPTION	\$ 1,700.00	50%
109781468	FEE, 1354RM-PHM, 3 YEAR SW SUBSCRIPTION	\$ 5,000.00	50%
109785691	SFP MODULE,REUSE,CH300,1AB231410033	\$ 3,200.00	50%
109785709	SFP MODULE,REUSE,CH49,1AB231410014	\$ 3,200.00	50%
109786384	XFP MODULE,DWWM CH54,REUSE,1AB356630007	\$ 7,327.20	50%
109791319	OPTO TRX SFP I-16.1 DDM REUSE	\$ 400.00	50%
109791582	CIRCUIT PACK,1692 MSE,REUSE,3AL95063AA	\$ 3,632.80	50%
109792101	REUSE, CKP 109593012,WWCK01,1625 LAMBDAX	\$ 61,862.40	50%
109792119	REUSE, CKP 108940511,WWAD03, 1625 LAMBDA	\$ 7,530.11	50%
300475712	POWER CABLE HO7VK-2,5MM-*	\$ 0.51	50%
300477627	29178 POWER CABLE HO7VK-6MM GREEN YELLOW	\$ 2.12	50%
300478211	CABLE TIE 150MM 3,6MM TY*	\$ 0.22	50%
300478310	TESAFLEX 15MM (BLUE) IN*	\$ 0.74	50%
300478328	TESAFLEX 15MM (RED) INS*	\$ 0.59	50%
300478567	COROPLAST ADHESIVE TAPE *	\$ 0.69	50%
300479714	TUBULAR LUG 35MM HOLE OF*	\$ 2.70	50%
300480621	53580.080.001 NUT H M8 A4 (STAINLESS ST*)	\$ 0.14	50%
300492246	CABLE TIE TYB 23M SET O	\$ 0.03	50%
300497294	CABLE LUG 2.5MM2 M6	\$ 0.43	50%
300497336	TUBE CORRUGATED 23MM TWO-PART BLACK	\$ 16.58	50%
300498359	26877 LGY 35MM2 450/750V RED	\$ 13.41	50%
300498367	26875 LGY 35MM2 450/750V BLUE	\$ 8.42	50%
300503000	BARBED TAPE FIBER OPTIC	\$ 60.42	50%
300506219	NUT M6 SKT NR M6 NUT D*	\$ 0.36	50%
300506557	TUBE SR- RNF-100 1/4 TYP	\$ 0.78	50%
300507449	VELCRO TAPE 4,5M-ROLL	\$ 18.75	50%
300537529	HEX-HEAD SCREW,M8X20MM	\$ 0.33	50%
300547924	4810000241 HEAT SHRINKAB	\$ 1.45	50%
300547932	4810000242 HEAT SHRINKAB	\$ 1.20	50%
300547957	4810000244 HEAT SHRINKAB	\$ 3.51	50%
300547965	4810000245 HEAT SHRINKAB	\$ 3.62	50%
300548146	4810000149 WASHER SPRING*	\$ 0.10	50%
300548153	4810000150 WASHER SPRING*	\$ 0.17	50%
301005476	Incentive Credit, Optics, 1830 PSS	Custom Bid	0%
301042891	HIGH LEVEL OTD-DWDM BOOKING PLACEHOLDER	Custom Bid	0%
301071387	SITE MATERIAL PLACEHOLDER FOR IPD	\$ 0.02	50%
400704698	FUSE-KS19780L6 30A PG00 *	\$ 3.48	50%
400898318	SUPT-PLT8LH-Q0 CA NYLON PG00 COMMON	\$ 2.40	50%
400935615	PLUG-1451 SNAP IN BLANK *	\$ 0.79	50%
401231501	FUSE-GMT 1/2A 1/2 AMP GM*	\$ 1.56	50%
401231527	FUSE-GMT 3A BUSSMANN DIV*	\$ 1.01	50%
401231535	FUSE-GMT 5A 5 AMP GMT BU*	\$ 1.18	50%
401359955	LUG TERM-RC2207 STAKON 1*	\$ 0.46	50%
401466594	FUSE-GMT 2A TYCO ELECTRONICS	\$ 1.10	50%
401922919	PLUG-1470 PUSH PENNY 1/2	\$ 0.50	50%
402099436	FUSE-GMT BUSSMANN DIVISI*	\$ 0.91	50%
402255152	LUG TERM-10RC10 STAKON T*	\$ 0.66	50%
402328926	FUSE-GMT 18/100	\$ 1.03	50%
402646657	THREADED ROD, HTHR050	\$ 24.34	50%

402777148	CBL PWR 12 AWG 600V SOLID GREEN PVC	\$ 0.29	50%
402779839	CBL PWR 12 AWG 600V SOLID WHITE PVC	\$ 0.29	50%
402779847	CBL PWR 12 AWG 600V SOLID BLACK PVC	\$ 0.29	50%
402834873	COV CAP-P2860-10 CHAN END	\$ 1.68	50%
403935059	CONN-5356 LIQ TYT 1-1/2 *	\$ 41.26	50%
405171703	FUSE-KS19780L26 30A 30 A*	\$ 10.20	50%
405347402	CONN ELEC-WP91412L1 BU00*	\$ 2.06	50%
405347436	CONN ELEC-WP91412L2 BU00*	\$ 2.66	50%
405347519	CONN ELEC-WP91412L3 BU00 BURNDY CORP.	\$ 2.76	50%
405347543	CONN ELEC-WP91412L4 BU00*	\$ 3.12	50%
405347683	CONN ELEC-WP91412L8 BU00*	\$ 4.58	50%
405347923	CONN ELEC-WP91412L27 BU00 BURNDY CORP.	\$ 6.84	50%
405348202	CONN ELEC-WP91412L54 BU0*	\$ 3.74	50%
405348228	CONN ELEC-WP91412L56 BU00 BURNDY CORP.	\$ 5.04	50%
405356171	Lug,WP91412L73, 2H-5/8,14-10AWG, 8-10 st	\$ 3.55	50%
405422858	PAKG-RCB-961 FILAMENT TAPE ROLL 1 X 6*	\$ 13.82	50%
405445958	CONN, RF COAX	\$ 0.60	50%
405445982	PLUG-WP91246L133 1IN	\$ 1.13	50%
405662859	CNTR-RCB988 1.0 EA STOCK	\$ 42.48	50%
405663741	CNTR-RCB323 CP	\$ 15.74	50%
406021626	CONN ELEC-WP91412L75 LO0*	\$ 2.28	50%
406144428	Lug,YAZV10-2TC14, 2H-5/8,14-10AWG, 1/4 s	\$ 3.19	50%
406187294	FIBER PROTECTION KIT, FGS-MJWR-A	\$ 30.98	50%
406197681	PAKG-RCB 986 OSI - OUTSI*	\$ 31.66	50%
406225680	DUCT, FGS-MSHS-A	\$ 124.92	50%
406225698	CABLE RACK BRACKET KIT, FGS-HLDR 5/8	\$ 22.90	50%
406225714	THREADED ROD BRACKET KIT, FGS-HNTR-5/8	\$ 37.80	50%
406281261	HARDWARE, LOCK SCREW-MALE, 250-8501-010	\$ 0.60	50%
406298778	END CAP-P2860-10 CHAN PL*	\$ 3.96	50%
406308106	GUTTER, FGS-MDSP-A	\$ 73.46	50%
406308171	END COVER, FGS-HMEC-A	\$ 18.10	50%
406308189	HORIZON FITTING, FGS-MHRT-A	\$ 58.39	50%
406332841	LUG TERM-WP91412L111 CRI*	\$ 4.13	50%
406335141	LUG TERM-WP91412L135 CRI*	\$ 28.34	50%
406338145	LUG TERM-WP91412L93 CRIM*	\$ 4.68	50%
406338152	LUG TERM-WP91412L94 CRIM*	\$ 4.54	50%
406338194	LUG TERM-WP91412L98 CRIM*	\$ 5.74	50%
406338244	LUG TERM-WP91412L101 CRI*	\$ 3.19	50%
406338343	LUG TERM-WP91412L103 CRI*	\$ 2.76	50%
406338350	LUG	\$ 4.13	50%
406338368	LUG TERM-WP91412L105 CRI	\$ 8.83	50%
406338392	LUG,TERMINAL,CRIMP 3/8in STUD	\$ 2.40	50%
406338400	LUG TERM-WP91412L108 CRI*	\$ 3.02	50%
406338442	LUG TERMINAL, CRIMP PER WP-91412L110	\$ 2.57	50%
406338483	LUG TERM-WP91412L115 CRI	\$ 3.82	50%
406338574	LUG TERM-WP91412L117 CRI*	\$ 2.90	50%
406338665	LUG TERM-WP91412L121 CRI*	\$ 4.27	50%
406338673	LUG TERM-WP91412L122 CRI*	\$ 3.65	50%
406386870	FIBER OPTIC CABLE TROUGH,	\$ 14.11	50%
406405654	THREADED ROD, FGS-HTHR-5/8-30	\$ 15.43	50%
406434175	LUG TERM-WP91412L158 CRI	\$ 12.00	50%
406434472	LUG TERM-WP91412L136 CRI	\$ 8.40	50%
406455394	FGS-MJWR-C	\$ 9.31	50%
406455402	DUCT, FIBER, FGS-KTW1-C	\$ 133.30	50%
406471375	CONN ELEC-YA6CL-2TC10 NO*	\$ 4.94	50%

406496836	FGuide 90deg Horiz Elbow, 4x4 in,yellow	\$ 64.58	50%
406510669	FGuide 45deg Down Elbow, 4x4 in,yellow	\$ 60.86	50%
406510693	45 DEGREE UP ELBOW	\$ 83.16	50%
406537613	END CAP, 2IN, FGS-HMEC-C	\$ 11.76	50%
406537647	HORIZONTAL TEE FITTING, 6 W	\$ 175.54	50%
406540963	HORIZON-FGS-MHTA-C T& CO*	\$ 104.78	50%
406614099	LUG TERM-YA4CL-2TC14 OSI	\$ 5.16	50%
406614115	LUG TERM-YA8CL-2TC14 OSI*	\$ 2.18	50%
406645671	WR COP-KS22641L1 6GA G 1	\$ 1.20	50%
406645721	WR COP-KS22641L1 8GA G 1*	\$ 0.79	50%
406645804	WR COP-KS22641L1 12GA W *	\$ 0.34	50%
406645820	WR COP-KS22641L1 12GA RED 1COND A STRAN*	\$ 0.34	50%
406670109	PLUG ELEC-UPL220-026 TROMPETER ELECTRON*	\$ 8.45	50%
406700641	FUSE-WP92461L107 30A 170	\$ 12.62	50%
406821595	JUNCTION,4X4 CONDUIT CROSS,FGS-MHXP-A	\$ 353.04	50%
406836031	CONN ELEC-5357 LIQUIDTIG*	\$ 56.42	50%
406905802	PLUG ELEC-UPL220-025 TROMPETER ELECTRON*	\$ 8.45	50%
407006337	FUSE-TPA-10 10A 48V DC C*	\$ 20.11	50%
407006345	FUSE-TPA-15 15A 48V DC C	\$ 23.52	50%
407006360	FUSE-TPA-25 25A 48V DC C	\$ 14.52	50%
407006378	FUSE-TPA-30 30A 48V DC C*	\$ 16.08	50%
407006394	FUSE-TPA-50 50A 48V DC C*	\$ 15.22	50%
407051747	CONDUIT, U0500001001	\$ 2.07	50%
407142868	CNTR-RCB 261 OSI - OUTSI*	\$ 49.08	50%
407214436	TRIM-AXCUTL L TRIM EDGE	\$ 28.32	50%
407225846	KIT-483578900 MTG 483578900 MOUNTING KIT	\$ 198.74	50%
407302900	EQP OS-HSC12FR CLEAR TUB	\$ 0.98	50%
407319235	LUG TERM-YAV2CL-2TC14FX-90 CRIMP 0.25IN*	\$ 10.44	50%
407334671	LUG TERM-WP91412L171 CRIMP 14GA 750GA F*	\$ 2.76	50%
407334713	TLB_0V*0A	\$ 18.94	50%
407357318	FUSE ALARM/INDICATING PIN/BEAD 15 A #GMT	\$ 1.18	50%
407384635	KIT-TMH263 HDWR EQUIPMEN	\$ 8.74	50%
407394576	LUG TERM-YA2CL-2TC14E2 C*	\$ 5.35	50%
407405489	CBL PWR, DOUBL INS,STRANDED,GRAY,LSZH	\$ 0.84	50%
407405497	CBL PWR 600V 1 COND STRANDED GREEN LSZH	\$ 0.84	50%
407405505	CBL PWR 600V 1 COND	\$ 0.84	50%
407405513	CBL PWR 600V 1COND LSZH	\$ 0.86	50%
407405521	CBL PWR, 1 CORE,KS24194 L3 STRANDED,LSZH	\$ 0.86	50%
407405539	CBL PWR 12AWG STRANDED GREEN LSZH 1 COND	\$ 0.87	50%
407405547	CBL PWR 600V STRANDED 1COND	\$ 0.86	50%
407405554	WR PWR-KS24194L3 10GA 600V COPPER 1COND*	\$ 0.96	50%
407405570	CBL PWR 10AWG 600V STRANDED GREEN LSZH	\$ 0.96	50%
407405588	CBL PWR 600V STRANDED 7x23x0.0201 LSZH	\$ 0.96	50%
407405596	CBL PWR 600V 1 COND	\$ 1.44	50%
407405604	CBL PWR 600V 1 COND	\$ 1.32	50%
407405612	CBL PWR 600V 1 COND LSZH	\$ 1.32	50%
407405620	CBL PWR 600V STRANDED 7x23x0.0201 LSZH	\$ 1.32	50%
407405638	PWR CBL KS24194 600V 6GA 1COND BLUE LSZH	\$ 1.79	50%
407405646	WR PWR-KS24194L3 6GA 600V COPPER 1COND	\$ 1.80	50%
407405661	PWR CBL KS24194 600V 6GA 105DEG LSZH	\$ 1.70	50%
407405679	CBL PWR 600V STRANDED BLACK 1COND	\$ 0.96	50%
407405687	CBL PWR 600V 1 COND	\$ 1.30	50%
407405695	PWR CBL KS24194L3 600V 6GA 1COND LSZH	\$ 1.66	50%
407405703	PWR CBL KS24194 600V 4GA L3 1 COND LSZH	\$ 2.38	50%
407405729	PWR CBL KS24194 600V 4GA L3 1 COND LSZH	\$ 2.02	50%

407405752	PWR CBL KS24194 600V 2GA L3 1/0 STRD LSZ	\$ 3.42	50%
407405786	PWR CBL KS24194 600V L3 1/0 STRD LSZH	\$ 5.21	50%
407405836	CBL PWR 600V 1 COND	\$ 6.68	50%
407405844	CBL PWR 600V 1 COND LSZH	\$ 6.17	50%
407417179	BRKR CKT-2566-923-00 20A*	\$ 148.94	50%
407431857	LUG TERM-YAV4CL-2TC14FX-*	\$ 7.56	50%
407576198	LUG TERM-YA6CL-NT6 CRIMP 6GA 6GA 1GA FE	\$ 6.53	50%
407576636	CBL PWR 600V 1 COND, STRANDED GRAY LSZH	\$ 0.96	50%
407726041	LUG TERM-WP91412L176 CRI	\$ 5.42	50%
407749142	LUG TERM-YA8C-L1-BOX CRI	\$ 1.18	50%
407758341	LUG TERM-YA25L-2TC38 CRI*	\$ 4.99	50%
407767532	EXTN-02324-34 0IN 25.812*	\$ 61.44	50%
407817550	LUG TERM-WP91412 L180 CR	\$ 7.03	50%
407834258	PWR CBL KS24194 600V 1COND STRANDED RED	\$ 1.89	50%
407870468	PWR CBL KS24194 600V 2GA L3 1/0 STRD LSZ	\$ 3.17	50%
407890748	LUG TERM-WP91412 L183 CR*	\$ 20.93	50%
407998160	BRKR CKT-LMLK1-1RLS4-298*	\$ 47.81	50%
407998202	BRKR CKT-LMLK1-1RLS4-298	\$ 23.71	50%
407998269	BRKR CKT-LMLK1-1RLS4-298	\$ 21.17	50%
408048320	COAXIAL CONNECTOR, 2025-96-7	\$ 5.74	50%
408135887	PWR CBL KS24194 600V 4GA L3 1 COND LSZH	\$ 2.21	50%
408140499	PWR CBL 16AWG 600V RED/BLACK PVC STRND	\$ 0.43	50%
408140507	WR PWR-WP-93746L1 10GA 600V COPPER 2CON*	\$ 1.92	50%
408156545	WR PWR-WP-93746L1 10GA 6*	\$ 2.52	50%
408178564	FUSE-KLM-30 30A 600 ALTE	\$ 19.78	50%
408252187	Lug 2H 6AWG 1/4 Stud, 5/8 Spacing, short	\$ 2.95	50%
408255255	KIT-FGS-KT03-A1 CAP FIBER CABLE 4in END	\$ 79.20	50%
408264547	LUG TERM-LPC245350400 ST*	\$ 14.40	50%
408264596	LUG TERM-LPC245391600 ST*	\$ 5.66	50%
408275519	CBL PWR 600V 2 COND R/R-BLACK PVC	\$ 3.24	50%
408275576	CBL PWR 600V 2 COND B/B-BLACK PVC	\$ 3.24	50%
408298131	KIT-209676 FUSE COMMON 1*	\$ 1.03	50%
408352003	12x4 Horizontal Tee Yellow	\$ 244.73	50%
408352029	12x4 to Single 6 Adapter Yellow	\$ 175.54	50%
408352045	GUTTER-FGS-MH9E-F 90 ELB*	\$ 214.99	50%
408352060	GUTTER-FGS-HMEC-F END CA*	\$ 32.90	50%
408352110	BRKT-FGS-HNTR-F-5/8 CNTL	\$ 57.12	50%
408373405	KIT-54715 PWR COMMON #6 *	\$ 7.42	50%
408373470	Lug,256-30695-1298, 2H-5/8,14-10AWG,1/4	\$ 4.32	50%
408382083	KIT-130287 CONNECTOR CORECOMM RJ45 TO D*	\$ 16.03	50%
408390318	TRAY-02183-01 SLDG 19X17*	\$ 423.60	50%
408397099	Cabling accessory	\$ 16.03	50%
408406536	KIT-YA6C-L BOX PWR COMMO	\$ 1.51	50%
408414787	KIT-YAV10-2TC10 PWR COMM	\$ 3.79	50%
408426039	SLI-BRACKET, 4 INCH L	\$ 5.52	50%
408426930	BALUN-MT242A-F TRANSMISS	\$ 0.02	50%
408428878	KIT-YA6C-L1 BOX PWR COMM*	\$ 1.63	50%
408440642	KIT-YA2CL-2TC14 PWR COMM	\$ 4.22	50%
408440675	KIT-YA2C-L2BOX PWR COMMO	\$ 3.07	50%
408442515	KIT-YA8C-L BOX PWR COMMO*	\$ 1.18	50%
408452134	BRKT-PPBRKT3.5 MTG STL 3*	\$ 11.40	50%
408459394	KIT-TP106 TERM BRCG VARI*	\$ 0.36	50%
408471043	RACKG OPTN-0040320231 AD*	\$ 36.62	50%
408479624	KIT-FGS-JUNC-A JCT ADC S*	\$ 33.53	50%
408479632	MATL PAKG-RCB135 ANTSTC *	\$ 4.68	50%

408521052	ADPTR EL-095911 F/F DB-2*	\$ 14.76	50%
408532679	TUBG-FGS-MFTY-15F PVC 0X*	\$ 67.51	50%
408635449	DUCT-FVTHD2X2YL VERTICAL 0IN 0IN 0IN PL*	\$ 103.06	50%
408635688	BRC-FTR2X2YL END 0IN 0IN COMMON	\$ 55.94	50%
408660538	TUBE-FGS-MEX1-C-5F FTG P*	\$ 75.43	50%
408685030	DUCT-FRRA4X4YL HORIZONTAL 0IN 4IN 4IN P*	\$ 150.67	50%
408685121	DUCT-FRLPR42BL RDCR 00X4	\$ 57.80	50%
408685147	DUCT-FROVRA4X4YL OUTSIDE 0IN 4IN 4IN PL	\$ 150.67	50%
408685212	DUCT-FRTR4X4YL SPILLOUT TRUMPET 0IN 4IN	\$ 99.74	50%
408694354	KIT-0010580100 FRWK COMM	\$ 7.24	50%
408697480	DUCT-FGS-KTW1-CA CHAN 2IN 2IN 72IN PLSTC	\$ 107.83	50%
408698652	DUCT-FGS-JUNC-B CONN 6IN 4IN 5IN PLSTC	\$ 37.49	50%
408701043	KIT-2023934510 FRWK COMMON (1) 5/8-11 T	\$ 24.00	50%
408730133	LBL-19444 INFO 3.125IN 6.5IN GMDBKAP F*	\$ 1.47	50%
408748853	DUCT FIBER CABLE 4 IN, 2 IN	\$ 413.21	50%
408763134	BRKR CKT-101607 60A 1 24V DC PROTN PLUG*	\$ 125.95	50%
408764439	RACEWAY-02327-01 WRG TROUGH 0DEG(A) 25.*	\$ 202.06	50%
408764447	AC BLANK RACEWAY 25.84 L	\$ 91.06	50%
408768760	BRKR CKT-256694801 60A 1 (-48)V DC TOGL*	\$ 180.46	50%
408769511	BRKR CKT-102277 20A 1 24V DC TOGL PLUG-*	\$ 34.80	50%
408769560	BRKR CKT-102281 40A 1 24V DC TOGL PLUG-*	\$ 34.80	50%
408769586	BRKR CKT-102283 60A 1 24V DC TOGL PLUG-	\$ 126.34	50%
408777472	LUG FERRULE STRAIGHT 4MM2 INS. COPPER DI	\$ 0.08	50%
408782803	FUSE-06100C-20 20A 125 AC/DC INDCTG FST*	\$ 10.44	50%
408786523	BAR-R2-23-122-3 CA TIE STL ROUND 0.188I*	\$ 22.20	50%
408802551	DUCT-FIVRA2X2YL VERT 2.24IN 6.95IN 6.95*	\$ 110.64	50%
408802577	DUCT-FOV452X2YL VERT 2.24IN 4.41IN 7.69	\$ 71.62	50%
408804417	LUG TERM-245393800 CRIMP 0.25IN 4/0 NO	\$ 168.94	50%
408808186	CON-ACCSRY	\$ 5.88	50%
408821353	DUCT-FGS-MFAW-A CONN 6.8IN 4.25IN 5.51I*	\$ 22.56	50%
408839439	CA ASSY-1533R-GREY ETH N-CONNZD OFT 300	\$ 0.54	50%
408847697	DUCT-FRTSC4YL COV 0IN 0IN 0IN PLSTC PVC	\$ 121.20	50%
408847713	DUCT-FRRASC4YL COV 0IN 0IN 0IN PLSTC PVC	\$ 99.98	50%
408847796	DUCT-FROVRASC4YL COV 0IN 0IN 0IN PLSTC	\$ 98.52	50%
408848398	DUCT-FGS-MEXP-E-A/B/F SO JCT BS 7.89IN *	\$ 287.28	50%
408868651	SPLICE KIT-YSR34FX28FXLTCKITC 350-4/0	\$ 54.60	50%
408868677	SPLICE KIT-YSR34FX25FXLTCKITC 350-1/0	\$ 51.00	50%
408868719	SPLICE INLINE YSR312CFXLTCKITC 350-2/0	\$ 55.58	50%
408868727	SPLICE INLINE YSR29FX25FXLTCKITC 4/0	\$ 40.82	50%
408868735	SPLICE INLINE YSR29FX2CFXLTCKITC 4/0-#2	\$ 43.97	50%
408868792	SPLICE INLINE YSR25FX6CFXLTCKITC 1/0-#6*	\$ 32.62	50%
408868800	SPLICE INLINE YSR2CFX6CFXLTCKITC #2-#6 *	\$ 26.09	50%
408868818	LUG TERM YSR4CFX6CFXLTCKITC #4-#6 *	\$ 21.70	50%
408871267	CON-ACCSRY	\$ 3.53	50%
408874196	CA ELECL-408874196 1COND 1.37795IN B 3.*	\$ 16.43	50%
408889616	KIT-RFCH702 CA RK SITE MATERIAL (2) RUB	\$ 4.80	50%
408894467	KIT-AFJ2402C FRWK SITE MATERIAL 5 HOLED	\$ 44.88	50%
408895274	LUG TERM-YAZV6C2TC14FX CRIMP 0.25IN 6GA	\$ 5.30	50%
408895290	LUG TERM-YAZV4C2TC14FX CRIMP 0.25IN 4GA*	\$ 6.62	50%
408895316	LUG TERM-YAZV2C2TC14FX CRIMP 0.25IN 2GA*	\$ 6.60	50%
408895399	LUG TERM-YAZ2C-2TC14 CRIMP 0.25IN 2GA N*	\$ 6.62	50%
408895407	LUG TERM-YAZ25-2TC38 CRIMP 0.375IN 1/0 *	\$ 10.20	50%
408895605	LUG TRM, YAZV6C2TC14E1FX,CRMP,, 25 , 6GA	\$ 7.27	50%
408895639	LUG TERM-YAZV4C2TC14E2FX CRIMP 0.25IN 4*	\$ 9.36	50%
408895654	LUG TERM-YAZ2C-2TC38 CRIMP 0.375IN 2GA *	\$ 5.47	50%

408895662	LUG TERM-YAZ2C-2TC14E2 CRIMP 0.25IN 2GA*	\$ 8.02	50%
408895738	LUG TERM-YAZV2CTC14FX 2GA, 1/4 STUD *	\$ 4.92	50%
408895795	LUG TERM-YAZV2C2TC38FX CRIMP 0.375IN 2G*	\$ 5.81	50%
408895837	LUG TERM-YAZ25-2TC14 CRIMP 0.25IN 1/0 N*	\$ 8.64	50%
408897619	PWR DISTN-009-8005-0404 LOW VLTG 24V 20*	\$ 1,848.00	50%
408898625	KIT-FMT-VELCROKIT CA FSTNR ADC 4 STRIPS	\$ 57.65	50%
408911378	ROD THD-TR60-06 0.625IN 78IN 6.50032FT *	\$ 28.32	50%
408919439	STOP-283855 FIRE STL 36IN	\$ 96.58	50%
408922029	LUG TERM-YAZ2C-2TC14E1 CRIMP 0.25IN 2GA*	\$ 7.20	50%
408933604	FUSE DUMY-110852 0.406IN 1.5IN PLSTC EA*	\$ 1.71	50%
408935310	STR-FBM96CB FILLER PLSTC 0.875IN 96IN B*	\$ 3.50	50%
408935336	LUG TERM-54904BEPH STRT 10IN 6GA 6GA 0.*	\$ 2.35	50%
408940203	MTG-7113.000 FR 70IN 2IN 0IN STL RITTAL	\$ 103.39	50%
408941235	KIT-LWEKIT AUX SITE MATERIAL (20) ETLW *	\$ 10.32	50%
408941250	KIT-AFC3203K AUX SITE MATERIAL (2) 6FT	\$ 111.84	50%
408941300	KIT-SAF2606 CA RK SITE MATERIAL (4) AUX*	\$ 12.24	50%
408941318	KIT-SAF2503 CA RK SITE MATERIAL (2) AUX*	\$ 6.48	50%
408941755	KIT-ACB6RDG-10 CA RK CA RK (10) POWER C*	\$ 61.96	50%
408941854	KIT-WH14K213 CA RK CA RK (13) STRAIGHT *	\$ 84.72	50%
408941953	SPLICE INLINE YSR26FX2CFXLTCKITC 2/0-#2	\$ 47.11	50%
408941961	SPLICE INLINE YSR25FX2CFXLTCKITC 1/0-#2	\$ 41.04	50%
408941979	SPLICE INLINE YSR2CFX4CFXLTCKITC #2-#4	\$ 36.53	50%
408943900	WR PWR-KS24194L3 12GA 600V CPR 1COND (E*	\$ 0.87	50%
408946606	BRKR CKT-CBB100E 100A 1 (-48)V DC TOGL	\$ 43.20	50%
408964559	LUG TERM-YA2CL2TC38 STRT 2GA 2GA FEM CO*	\$ 5.04	50%
408971570	FUSE-TLS100 100A 170 DC CKT PROTN NORM *	\$ 24.72	50%
408973519	OPTICAL SPLICING MODULE 1U-24 LEFT	\$ 263.53	50%
408981249	CONN COAX-BNC-3N-BSC 75OHM BNC PLUG MAL*	\$ 5.35	50%
408989366	LUG TERM-YAZV6C2TC14FX90 90 DEG 0.25IN *	\$ 8.52	50%
408991263	TOOL-C39407-A139-A12 WR WRPPG PLSTC EA0*	\$ 54.66	50%
408991776	TAG-CTND15 WRNG 1.5IN 0.03125IN BRS RD *	\$ 2.78	50%
408993004	LBL-408993004 INFO 3.125IN 6.5IN VINLSL*	\$ 1.46	50%
409013851	RECTIFIER MODULE, DPS 1200B-48, PLUG IN,	\$ 694.32	50%
409015757	BRKT-2100500130 CA STL 0.5IN 5IN 0.25IN*	\$ 18.98	50%
409018884	LUG TERM-YAZV4C-2TC14FX90 CRIMP 0.25IN *	\$ 7.66	50%
409029279	LUG TERM-256-30695-1148 PRES 0.25IN 6GA*	\$ 7.13	50%
409030616	KIT-CAF2902 AUX COMMON (1) 5 BOLT (2) *	\$ 6.96	50%
409031911	KIT-2075670810 CA RK CABLE RACK POWER C	\$ 38.98	50%
409033446	LUG TERM-YH3931WCC CRIMP 0IN 750 MCM FE*	\$ 92.06	50%
409033529	CON-ACCSRY	\$ 27.77	50%
409033537	LUG TERM-YH292CWCC CRIMP 0IN 4/0 FEM CO*	\$ 44.62	50%
409033545	LUG TERM-YH298CWCC CRIMP 0IN 4/0 FEM CO*	\$ 46.73	50%
409033552	LUG TERM-YH2C2CWCC CRIMP 0IN 2GA FEM CO*	\$ 23.76	50%
409033560	CON-ACCSRY	\$ 27.14	50%
409033578	CON-ACCSRY	\$ 15.67	50%
409033628	COV-CCFO-FR PROTV PLSTC 0IN CLR POWER	\$ 15.07	50%
409033636	COV-CCFD-FR PROTV PLSTC 0IN CLR POWER	\$ 17.18	50%
409035011	DUCT-FGS-MFAW-B SPLC 6IN 4IN 4IN PLSTC	\$ 25.42	50%
409041647	SPLICE INLINE YSR25FX4CFXLTCKITC 1/0-#4	\$ 38.28	50%
409047503	LUG TERM-YA2CL2NT14 CRIMP 0.25IN 2GA FE*	\$ 7.32	50%
409048113	LUG TERMINAL, YAZ8C-2TC10, STRAIGHT, 8 G	\$ 7.18	50%
409048139	LUG TERM-YAZ8C-2TC14 STRT 8GA 8GA 8GA F	\$ 5.28	50%
409048162	LUG TERM-YAZ8C-2TC38 STRT 8GA 8GA 8GA F*	\$ 5.28	50%
409048170	LUG TERM-YAZ25-2TC14E1 STRT 0GA 0GA 1/0*	\$ 10.13	50%
409062072	FUSE-KLM-20 20A 500 DC CRTG FST ACTG SN*	\$ 22.80	50%

409062080	FUSE-KLM-15 15A 500 DC CRTG FST ACTG SN	\$ 20.64	50%
409062395	DUCT-FGS-MEXP-LP-G FBR CBL 2IN 6IN 6IN *	\$ 216.17	50%
409062494	LUG TERM-YAEV10-L36- RNG TONG 10GA 1	\$ 1.56	50%
409063864	FRWK-11752-723 0IN STL 23IN 1.72FT 0IN *	\$ 133.32	50%
409064235	LUG TERM-YAZ2C2TC3890 CRIMP 0.375IN 0.6	\$ 13.65	50%
409064763	KIT-ECN3958 PKG COMMON BOX	\$ 19.58	50%
409066859	DUCT, 027-2000-4065, FIBER CABLE, 4 IN,	\$ 117.48	50%
409066867	DUCT, 027-1000-4066, FIBER CABLE, 4 IN,	\$ 58.27	50%
409067303	ADPTRNONEL-0040320330 BRKT 3.5IN 12-24 *	\$ 32.62	50%
409069879	TRUMPT FTG-FGS-MTRM-A FCMS 4IN 4IN 1IN *	\$ 55.56	50%
409069887	DUCT-FGS-MU9E-A ELBOW 4.73IN 8.6IN 8.6I	\$ 126.50	50%
409070224	BREAKER CIRCUIT, D0017117, 63 A, 1, 250	\$ 48.01	50%
409072048	KIT, BATT WIRE #1, 125A, 4 AWG 10 FT *	\$ 156.00	50%
409073400	ADPTRNONEL-0040320530 MTG RK 7IN 12-24 *	\$ 240.00	50%
409073475	ADPTRNONEL-2086380830 MTG BRKT 8IN 12-2*	\$ 54.55	50%
409077054	BRKR CKT-502666 100A 1 (-48)V DC TOGL P	\$ 43.20	50%
409077856	KIT-409077856 ASSY LUCENT 408895613 - L	\$ 105.43	50%
409079332	COV-FGS-SU9E-A DUCT PLSTC 4IN Y FIBER D*	\$ 62.68	50%
409079340	COV-FGS-SD9E-A DUCT PLSTC 4IN Y FIBER D*	\$ 75.22	50%
409079357	COV-FGS-SU4E-A DUCT PLSTC 4IN Y FIBER D*	\$ 71.30	50%
409079365	COV-FGS-SD4E-A DUCT PLSTC 4IN Y FIBER D	\$ 81.50	50%
409079431	KIT-7231 HDWR COMMON WASHERS	\$ 0.17	50%
409084514	KIT-TTS3-153 INSTLN INSTALL 3-WAY STAND*	\$ 105.96	50%
409085024	CA ASSY-CA4-0025-17C-T00-1 SGNL CONNZD *	\$ 205.20	50%
409085487	KIT-409085487 HDWR COMMON (2) PHM SCREW*	\$ 5.38	50%
409087715	LUG TERM-TN1014 CRIMP 0.25IN 12GA 10GA	\$ 1.56	50%
409089174	SPLC-YS2CFXLTKITC 2GA 2GA CODE OR FLX *	\$ 21.50	50%
409089836	KIT-WH08K213 CA RK COMMON (13) 8 STRAI*	\$ 74.40	50%
409101045	BOX-RCB981 CORRUGATED 12IN 12IN 12IN CA*	\$ 19.27	50%
409101052	BOX-RCB303 CORRUGATED 10IN 8IN 2.25IN C*	\$ 11.52	50%
409102035	SPLICE IN-LINE, YSR34FX26FXLTCKITC, 350*	\$ 45.14	50%
409102043	SPLICE IN-LINE, YSR34FX2CFXLTKITC, 350*	\$ 46.06	50%
409102548	CONN ELEC-100021C SHLD 8CONT PRES PRES *	\$ 32.76	50%
409105848	CNDT ELECL-5346 RGD 1-1/2 ALMN OFT	\$ 46.46	50%
409105996	CNDT-ALC 1/2INALUM.CONDUIT RGD 1/2 ALM*	\$ 1.99	50%
409106010	CNDT-ALC 1INALUM.CONDUIT RGD 1 ALMN 10*	\$ 4.54	50%
409107364	PNL-DI-R2CU1 CRS CONN 19IN 6IN 10.2IN S*	\$ 2,040.79	50%
409108016	ADPTR EL-82-100 COAX 1UN 0IN 0IN EA00 UL	\$ 24.24	50%
409108099	SHLD-99028 ICE 48IN STL EA00 VALMONT IN*	\$ 8,906.42	50%
409108669	KIT-R-6045L27 LBL SERVICES (1) PTL-64-4*	\$ 239.59	50%
409108727	BATTERY TRAY 19 ELTEK VALERE 217035 *	\$ 288.00	50%
409109238	SPLICE KIT-YSR2CFX8CFXLTKITC #2 #8 *	\$ 27.82	50%
409109246	SPLICE KIT-YSR4CFX10CLTKITC #4 #10 *	\$ 43.73	50%
409109253	SPLICE KIT-YSR4CFX8CFXLTKITC #4 #8 *	\$ 27.67	50%
409109261	SPLICE KIT-YSR6CFX10CLTKITC #6 #10 *	\$ 28.99	50%
409109287	SPLICE KIT-YSR8CFX10CLTKITC, #8 #10 *	\$ 24.74	50%
409109816	CLI-PAS-MM-12FT 2UN MULT 12FT STD 2UN L*	\$ 47.09	50%
409115623	CLI-JR1MO002LCUSCU010F 2UN MULT 10FT ST*	\$ 46.08	50%
409117108	CON-PB	\$ 31.56	50%
409118544	KIT-R-6045L20A LBL SERVICES (1)PTLFP-01*	\$ 82.92	50%
409122603	KIT-TK-0659L4 INSTLN SERVICES (2) ITE-7*	\$ 41.14	50%
409122611	KIT-TK-0659L24 INSTLN SERVICES (12) ITE*	\$ 262.70	50%
409122637	KIT-TK-0659L48 INSTLN SERVICES (24) ITE	\$ 512.64	50%
409122645	KIT-TK-0659L101 INSTLN SERVICES (1) ITE*	\$ 21.74	50%
409122660	KIT-TK-0659L124 INSTLN SERVICES (12) IT*	\$ 262.70	50%

409122678	KIT-TK-0659L136 INSTLN SERVICES (18) IT*	\$ 423.31	50%
409123254	ADPTRNONEL-0040320530 RE*	\$ 46.27	50%
409125622	LUG-RA484, INS RING TONGUE 22-18 GA RED	\$ 0.96	50%
601165749	CABLE STRAP, ED8C504-50 G6	\$ 5.38	50%
601202823	RACEWAY EQUIPMENT, ED8C509-50 G6	\$ 12.72	50%
601248404	DOOR, ED6C321-50 G3	\$ 547.56	50%
601401433	EQUIPMENT, ED8C805-50 G7	\$ 34.94	50%
601463813	EQUIPMENT, ED8C812-50 G21	\$ 400.80	50%
601463839	EQUIPMENT, ED8C812-50 G23	\$ 110.40	50%
601463847	EQUIPMENT, ED8C812-50 G24	\$ 156.67	50%
601463995	EQUIPMENT, ED8C805-50 G10	\$ 47.02	50%
601825250	EQUIPMENT, ED8C784-50 G23	\$ 101.26	50%
804222990	FUSE-P422299 DUMMY	\$ 6.79	50%
804223006	FUSE-P422300 DUMMY	\$ 7.03	50%
814251930	FLAT WASHER, P-42E193, STEEL, 5/8	\$ 0.72	50%
847073749	KIT-HDWR KIT #3 MOUNTING*	\$ 7.75	50%
847079860	BOLT HEX 18.10 M6/16MM STEEL	\$ 0.11	50%
847174901	WSHR-FLAT STEEL ST-70-14*	\$ 0.16	50%
847755246	HARDWARE, NUMBER PLATE 145P	\$ 0.17	50%
847891264	ASSY- ADPTR ADAPTER	\$ 32.66	50%
848201919	KIT-HDWR M5X10MM SCREWS *	\$ 0.48	50%
848919601	KIT- CA RK SEE DRAWING IN JMANAGER FOR *	\$ 125.83	50%
848919742	JUNCT LOW TO HIGH AUX FRAMING	\$ 27.02	50%
848919866	KIT- CA RK SEE DRAWING IN JMANAGER FOR *	\$ 38.47	50%
848963625	KIT-KIT-UNISTSUPT BRKT EXTR 1 PC 106198*	\$ 7.30	50%
849105895	KIT-849105895 FIXT SITE MATERIAL (2) CO*	\$ 51.38	50%
849106018	KIT-849106018 FIXT SITE MATERIAL (2) CO*	\$ 47.71	50%
900486861	TUBG-HSC700-1000 CAP	\$ 20.28	50%
901198689	WSHR-M5 FLAT M5 5.3X10.0*	\$ 0.02	50%
901249813	WSHR-M8 FLAT 8.4X17X1.6M*	\$ 0.05	50%
901249821	WSHR LK-M8 HELCL SPG M8 *	\$ 0.04	50%
901249839	NUT HEX-M8 M8 6.5X13MM F*	\$ 0.05	50%
901263327	SCR CAP-M8X25 8 MM HEX H*	\$ 0.20	50%
901328906	TIE-WRAP 4.5X194MM PLSTC	\$ 0.03	50%
901350322	SCR M-.25 IN 20 TPI 1 IN*	\$ 0.15	50%
901361287	SCREW, CAP, M5, .8 MM, 12 MM STANDARD, H	\$ 0.07	50%
901377770	BOX- OUTLET 2.125IN 4.65625IN 1.5IN DIE*	\$ 13.06	50%
901377838	FTG CNDT-KS5351 INSULATE*	\$ 12.91	50%
901396416	SCR M-.216 IN 24 TPI 1/4*	\$ 10.80	50%
995840386	SLVG-ACRYL FLEX BRD 20 1*	\$ 2.09	50%
996238093	ELB-5252 1/2 90 DEG ELEC*	\$ 6.36	50%
996533501	BOX OUTL-4SJD-1 4X11/16IN	\$ 6.77	50%
997083795	CNDT ELECL-5362 1/2IN LI*	\$ 14.09	50%
997104567	CNDT ELECL-8123 1/2IN IN*	\$ 4.15	50%
997623723	LUG TERM-C77 STAKON 12X1*	\$ 0.26	50%
997813621	COV-2510 RECEPTACLE	\$ 1.10	50%
997813712	COV-8487 CNDT BOX OTHER	\$ 2.01	50%
1AB000530001	CONNECTOR, BURNDY LOCKING LATCH	\$ 0.12	50%
1AB002130002	CON COAX 1.6/5.6 FEM 75Ohm CRIMP silver	\$ 3.94	50%
1AB006030063	HOUSING, SCREENED SUB-D,	\$ 10.64	50%
1AB009720030	Male Coaxial Connector (50 Ohms)	\$ 5.71	50%
1AB014010001	Kabel Typ 216,8m/LAN-KABEL1:1Cat6/ RJ45	\$ 33.00	50%
1AB014410005	FUSE OTHER 15/3.1/20 10A _QUICK	\$ 1.01	50%
1AB014410009	FUSE OTHER 15/3.1/20 7.5A _QUICK	\$ 2.50	50%
1AB014410010	FUSE*OTHER*15A _QUICK	\$ 1.25	50%

1AB017500058	BREAKER 8A	\$ 149.00	50%
1AB024380016	CIRCUIT BREAKER 8A S9 RACK	Custom Bid	0%
1AB032050003	LUG UNINS RING CRIMP M6 8AWG	\$ 0.66	50%
1AB032050093	CABLE LUG 6/>2,5-6	Custom Bid	0%
1AB032050225	LUG 45deg DOUBLE HOLE 8AWG	\$ 10.20	50%
1AB051530076	CON-LUG+FASTON-YA8CL1-BOX	\$ 0.58	50%
1AB051530095	LUG PIN CRIMP_UNINSUL 3.72mm/3.74mm 6.35	\$ 3.26	50%
1AB051530097	LUG*PIN*CRIMP UNINSUL*6.35mm	\$ 15.77	50%
1AB051530098	90deg 2-hole lug: 10AWG, 1/4IN stud size	\$ 8.62	50%
1AB051530112	LUG 2 HOLE SCREW_UNINSUL 2.82mm/2.82mm	\$ 8.40	50%
1AB051530119	LUG PIN CRIMP_UNINSUL 7.3mm/7.4mm 7.37um	\$ 10.01	50%
1AB054490002	LSA-PLUS Series 2 Disco 10P	\$ 6.03	50%
1AB058580013	16A istic DC 48V DIN + 2x +svorka	\$ 70.95	50%
1AB058580016	CIRC BREAK 10A C60H-DC 1P C	\$ 75.30	50%
1AB064050001	CAT 6-19 P_1U PATCHPANEL_w 24 COUPL RJ45	\$ 368.95	50%
1AB089570031	CON-OPTO-SMLC_ADAPTOR	\$ 24.00	50%
1AB121750001	CIRCUIT BREAKER C60H 1x20A	\$ 73.61	50%
1AB121750003	CIRCUIT BREAKER C60H 1x63A	\$ 77.00	50%
1AB121750004	CIRCUIT BREAKER C60H 1x50A	\$ 91.04	50%
1AB134970011	ADAPTER DB9FxrJ45	\$ 5.47	50%
1AB156410001	CON-CBLRD Connector Modular Jack/Plug	\$ 2.93	50%
1AB162710004	CIRCUIT BREAKER 8A 72VDC	\$ 14.00	50%
1AB162710006	CIRCUIT BREAKER 15A 72VDC	\$ 24.00	50%
1AB169400001	CON-OPTO-SM*FC-SC-ADAPTOR	\$ 8.78	50%
1AB182170001	PANEL 16 PORT 120 ohms-W/W WITH CABLE SC	Custom Bid	0%
1AB182640001	LUG TERMINAL, 1/0 STR, 1/4, HOLE, 5/8 SP	\$ 9.89	50%
1AB185030004	CA SM DX 2.7 LC-LC 15M YL LSZH	\$ 57.07	50%
1AB187280031	OPTO TRX SFP 1GBE LX/LX10 DDM	\$ 156.00	50%
1AB187280033	OPTO TRX SFP 1GBE SX DDM	\$ 80.00	50%
1AB187280042	OPTO TRX SFP 1GBE ZX DDM	\$ 856.00	50%
1AB188030002	CA MM SX 2.0 LC-LC 3M OR	\$ 22.75	50%
1AB194670004	OPTO TRX SFP S-1.1 DDM	\$ 116.80	50%
1AB194670005	OPTO TRX SFP L-1.1 DDM -40/+85	\$ 308.00	50%
1AB194670006	OPTO TRX SFP L-1.2 DDM -40/+85	\$ 500.00	50%
1AB194670007	OPTO TRX SFP S-1.1 DDM -40/+85	\$ 140.00	50%
1AB195070029	JUMPER LC BC FC MM 50 mic 8 m	Custom Bid	0%
1AB196360004	OPTO TRX SFP S-4.1 DDM	\$ 228.00	50%
1AB196360005	OPTO TRX SFP S-4.1 DDM -40/+85	\$ 251.00	50%
1AB196360006	OPTO TRX SFP L-4.1 DDM -40/+85	\$ 313.60	50%
1AB196360007	OPTO TRX SFP L-4.2 DDM -40/+85	\$ 432.00	50%
1AB196370005	OPTO TRX SFP I-16.1 DDM	\$ 400.00	50%
1AB196370006	OPTO TRX SFP S-16.1 DDM -5/+85	\$ 492.00	50%
1AB196370007	OPTO TRX SFP S-16.1 ANYRATE DDM	\$ 441.60	50%
1AB196370008	OPTO TRX SFP L-16.1 DDM -5/+80	\$ 1,131.00	50%
1AB196370009	OPTO TRX SFP L-16.2 DDM -5/+80	\$ 1,323.00	50%
1AB196370013	OPTO TRX SFP I-16.1 DDM -40/+85	\$ 425.00	50%
1AB202160001	CIRCUIT BREAKER C120H 1x80A 48VCC	\$ 175.39	50%
1AB202160002	CIRCUIT BREAKER C120H 1x125A	\$ 315.70	50%
1AB202160003	CIRCUIT BREAKER C120H 1x100A	\$ 152.96	50%
1AB214000005	CA MM SX 1.6 LC-LC 10M YL	\$ 13.44	50%
1AB214540001	XFP I-64.1/10GBE BASE L	\$ 1,757.00	50%
1AB214710002	OPTO TRX SFP 100BASE LX -40/+85 DDM	\$ 135.00	50%
1AB215120007	CA SM SX 2.0 LC-LC 5M YL LSZH	\$ 11.52	50%
1AB215120009	CA SM SX 2.0 LC-LC 15M YL LSZH	\$ 14.07	50%
1AB215120060	DUPLEX JUMPER S.M. LC/PC-LC/PC 1.4M ETSI	\$ 26.00	50%

1AB215120061	DUPLEX JUMPER S.M. LC/PC-LC/PC 1.4M NAR	\$ 135.00	50%
1AB215120094	OPTICAL CABLE ASSY, SM, LC-LC, 140/155MM	\$ 41.00	50%
1AB217280001	XFP S64-2B/10GBE BASE E	\$ 3,501.00	50%
1AB217280002	XFP P1L1-2D2	\$ 9,868.00	50%
1AB229830003	JLCAT6 2M	\$ 8.61	50%
1AB229830006	CABLE ASSY CAT6E S/FTP WE RJ45-RJ45 5M	\$ 11.60	50%
1AB229830011	Kabel Typ 216,0,5m/LAN-KABEL1:1Cat6/RJ45	\$ 14.64	50%
1AB229830012	Kabel Typ 216,25m/LAN-KABEL1:1Cat6/RJ45	\$ 27.22	50%
1AB243210001	CIRC BREAK*100A_FAST, 10/10 GMT_DUAL FEE	\$ 924.00	50%
1AB251130001	SENSOR*sensor-CMC-TC-access sensor*0A*1*	\$ 213.92	50%
1AB252030001	10DB ATTENUATOR	\$ 101.00	50%
1AB255910001	LUG 2 HOLE CRIMP_NO 7.37mm 6.35mm	\$ 5.33	50%
1AB266440001	2 HOLE LUG M6 HOLES FOR 16MM2	\$ 10.42	50%
1AB283380001	Cable entry panel_482.6 mm (19 inch)	\$ 163.51	50%
1AB293800001	Parent CA SM-BIF SCA-LC40 RISER 1.6mm YL	\$ 41.60	50%
1AB293800002	Parent CA SM-BIF 2F FCA-LC40 RISER 1.6mm	\$ 40.58	50%
1AB297410012	CIRCUIT BREAKER 40A,_80VDC, MAGNETIC,_W/	\$ 24.02	50%
1AB300680001	LUG,YA8CL-NT8,CMPRSSN_NO 8 WIRE 1 HOLE	\$ 8.16	50%
1AB304630001	LUG, 2AWG LONG BARREL_2HOLE 1/4 STUD	\$ 11.06	50%
1AB310140001	SFP FE/ FDDI 100BASE-T EL W/EXT TEMP	\$ 560.00	50%
1AB310800001	LUG 2H 1/4IN STUD, 5/8IN, NARROW, 2AWG	\$ 5.06	50%
1AB311640003	LUG 4AWG 2HOLE Stud Hole 1/4in CC 5/8in	\$ 11.64	50%
1AB324570004	FUSE*KNIFE*NH1*100A_MEDIUM	\$ 42.91	50%
1AB348170014	CA MM SX 2.4 LC-LC 15M OR	\$ 29.46	50%
1AB349800001	Parent CA SM-BIF 2F LCU40-LCU,ONFR 1.6mm	\$ 34.24	50%
1AB349820001	OPTO-CABLE-ASSY SM LC/UPC SC/UPC	\$ 34.24	50%
1AB349840001	CA 1F, Red Jacket, Indoor	\$ 20.54	50%
1AB352700007	AC POWER CABLE, AUS PSI	\$ 81.00	50%
1AB352700009	CA-AC PWR SUPPLY CBL AUS (PSS-16II)	\$ 50.00	50%
1AB352700010	CA-AC PWR SUPPLY CBL UK/IRLND (PSS16II)	\$ 54.00	50%
1AB352700011	CA-AC PWR SPLY CBL CNTRL EUR (PSS16II)	\$ 46.00	50%
1AB353260001	4PR/24AWG CAT5E SINGLE END RJ45 SHLD OE	\$ 18.60	50%
1AB356630001	OE-TRX XFP DWDM CH60	\$ 9,159.00	50%
1AB356630002	OE-TRX XFP DWDM CH59	\$ 9,159.00	50%
1AB356630003	OE-TRX XFP DWDM CH58	\$ 9,159.00	50%
1AB356630004	OE-TRX XFP DWDM CH57	\$ 9,159.00	50%
1AB356630005	OE-TRX XFP DWDM CH56	\$ 9,159.00	50%
1AB356630006	OE-TRX XFP DWDM CH55	\$ 9,159.00	50%
1AB356630007	OE-TRX XFP DWDM CH54	\$ 9,159.00	50%
1AB356630008	OE-TRX XFP DWDM CH53	\$ 9,159.00	50%
1AB356630009	OE-TRX XFP DWDM CH52	\$ 9,159.00	50%
1AB356630010	OE-TRX XFP DWDM CH51	\$ 9,159.00	50%
1AB356630011	OE-TRX XFP DWDM CH50	\$ 9,159.00	50%
1AB356630012	OE-TRX XFP DWDM CH49	\$ 9,159.00	50%
1AB356630013	OE-TRX XFP DWDM CH48	\$ 9,159.00	50%
1AB356630014	OE-TRX XFP DWDM CH47	\$ 9,159.00	50%
1AB356630015	OE-TRX XFP DWDM CH46	\$ 9,159.00	50%
1AB356630016	OE-TRX XFP DWDM CH45	\$ 9,159.00	50%
1AB356630017	OE-TRX XFP DWDM CH44	\$ 9,159.00	50%
1AB356630018	OE-TRX XFP DWDM CH43	\$ 9,159.00	50%
1AB356630019	OE-TRX XFP DWDM CH42	\$ 9,159.00	50%
1AB356630020	OE-TRX XFP DWDM CH41	\$ 9,159.00	50%
1AB356630021	OE-TRX XFP DWDM CH40	\$ 9,159.00	50%
1AB356630022	OE-TRX XFP DWDM CH39	\$ 9,159.00	50%
1AB356630023	OE-TRX XFP DWDM CH38	\$ 9,159.00	50%

1AB356630024	OE-TRX XFP DWDM CH37	\$ 9,159.00	50%
1AB356630025	OE-TRX XFP DWDM CH36	\$ 9,159.00	50%
1AB356630026	OE-TRX XFP DWDM CH35	\$ 9,159.00	50%
1AB356630027	OE-TRX XFP DWDM CH34	\$ 9,159.00	50%
1AB356630028	OE-TRX XFP DWDM CH33	\$ 9,159.00	50%
1AB356630029	OE-TRX XFP DWDM CH32	\$ 7,327.20	50%
1AB356630030	OE-TRX XFP DWDM CH31	\$ 9,159.00	50%
1AB356630031	OE-TRX XFP DWDM CH30	\$ 7,327.20	50%
1AB356630032	OE-TRX XFP DWDM CH29	\$ 9,159.00	50%
1AB356630033	OE-TRX XFP DWDM CH28	\$ 9,159.00	50%
1AB356630034	OE-TRX XFP DWDM CH27	\$ 9,159.00	50%
1AB356630035	OE-TRX XFP DWDM CH26	\$ 9,159.00	50%
1AB356630036	OE-TRX XFP DWDM CH25	\$ 9,159.00	50%
1AB356630037	OE-TRX XFP DWDM CH24	\$ 9,159.00	50%
1AB356630038	OE-TRX XFP DWDM CH23	\$ 9,159.00	50%
1AB356630039	OE-TRX XFP DWDM CH22	\$ 9,159.00	50%
1AB356630040	OE-TRX XFP DWDM CH21	\$ 9,159.00	50%
1AB356630041	OE-TRX XFP DWDM CH20	\$ 9,159.00	50%
1AB356630042	OE-TRX XFP DWDM CH19	\$ 9,159.00	50%
1AB356630043	OE-TRX XFP DWDM CH18	\$ 9,159.00	50%
1AB356630044	OE-TRX XFP DWDM CH17	\$ 9,159.00	50%
1AB357990001	OE-TRX SFP 100B FX	\$ 128.00	50%
1AB359780001	EL TRX SFP 1000BASE-T	\$ 126.00	50%
1AB371240001	8DB ATTENUATOR	\$ 101.00	50%
1AB371250001	4DB ATTENUATOR	\$ 101.00	50%
1AB375380005	XFP S-64-2B/10GBE BASE-E -40/+85	\$ 3,780.00	50%
1AB376350002	SFP L-1.1 -40/+85	\$ 279.00	50%
1AB376720004	SFP 1GBE EZX -40/+85	\$ 1,559.00	50%
1AB376720006	SFP GBE VX -40/+85 (1310NM)	\$ 248.00	50%
1AB377160001	SFP CWDM SH 1471NM	\$ 756.00	50%
1AB377160002	SFP CWDM SH 1491NM	\$ 756.00	50%
1AB377160003	SFP CWDM SH 1511NM	\$ 756.00	50%
1AB377160004	SFP CWDM SH 1531NM	\$ 756.00	50%
1AB377160005	SFP CWDM SH 1551NM	\$ 756.00	50%
1AB377160006	SFP CWDM SH 1571NM	\$ 756.00	50%
1AB377160007	SFP CWDM SH 1591NM	\$ 756.00	50%
1AB377160008	SFP CWDM SH 1611M	\$ 756.00	50%
1AB377200010	SFP CWDM LH 1491 NM -40/+85	\$ 1,890.00	50%
1AB377200012	SFP CWDM LH 1531 NM -40/+85	\$ 1,890.00	50%
1AB377200014	SFP CWDM LH 1571 NM -40/+85	\$ 1,890.00	50%
1AB378370002	XFP CWDM-LH 1491NM	\$ 7,444.00	50%
1AB378370011	XFP CWDM-LH 1511NM (-40/85)	\$ 5,195.00	50%
1AB378370014	XFP CWDM-LH 1571NM (-40/85)	\$ 5,195.00	50%
1AB379580001	LUG 2 HOLE CRIMP_UNINSUL 6.54mm/6.54mm	\$ 6.94	50%
1AB382180001	SFP FE 100BASE-LX -40/+85	\$ 146.00	50%
1AB392040002	QSFP+ 40GBASE-LR4 -5/70	\$ 7,695.00	50%
1AB392210001	Parent CA SM-BIF 2F SCU-LCU 250/250mm	\$ 52.76	50%
1AB393080005	SFP 1000BX / STM-4 20KM UPSTREAM	\$ 343.00	50%
1AB393080006	SFP 1000BX / STM-4 20KM DOWNSTREAM	\$ 360.00	50%
1AB393080008	SFP 100BX/ FE 40KM-DOWNSTREAM	Custom Bid	0%
1AB393080010	SFP 1000BX / STM-4 40KM DOWNSTREAM	\$ 432.00	50%
1AB393080019	SFP OC-48/STM-16 40KM UPSTREAM	\$ 702.00	50%
1AB393080020	SFP OC-48/STM-16 40KM DOWNSTREAM	\$ 217.00	50%
1AB402160001	CFP 100G (4X25G) 100G BASE LR4/100G OTU4	\$ 111,780.00	50%
1AB402160022	CFP LR4 (4X25GBS) 1310NM	Custom Bid	0%

1AB405070001	DS1 20 port Cross Connect panel	\$ 1,705.15	50%
1AB423830001	ADAPTER RJ45_CAT6_KEYSTONE	\$ 8.34	50%
1AB424150007	CABLE CAT5E_PLENUM RJ45/RJ45_SHLD 150FT	\$ 170.62	50%
1AB426470001	CFP2 100G BASE-LR4 (4X25G) SINGLE RATE 1	\$ 43,235.84	50%
1AB427960001	Parent CA SM-BIF 24F LC-LC 250/250mm BO	\$ 696.56	50%
1AB428190004	CAT6 ASM STR SFTP Bot_LSZH WH RJ45 2 m	\$ 3.74	50%
1AB428190006	CAT6 ASM STR SFTP Bot_LSZH WH RJ45 3 m	\$ 3.91	50%
1AB428190008	CAT6 ASM STR SFTP Bot_LSZH WH RJ45 5.5 m	\$ 11.82	50%
1AB428190009	CAT6 ASM STR SFTP Bot_LSZH WH RJ45 10 m	\$ 17.03	50%
1AB428190010	CAT6 ASM STR SFTP Bot_LSZH WH RJ45 15 m	\$ 26.22	50%
1AB428190011	CAT6 ASM STR SFTP Bot_LSZH WH RJ45 20 m	\$ 36.19	50%
1AB428190013	CAT6 ASM STR SFTP Bot_LSZH WH RJ45 30 m	\$ 56.62	50%
1AB428190015	CAT6 ASM STR SFTP Bot_LSZH WH RJ45 40 m	\$ 55.15	50%
1AB430900001	Ground Busbar Kit, UL, 2x12in Cu w 12x0.	\$ 149.98	50%
1AB432400004	CA MM SX 2.0 LCU_SB-LCU_SB 2M AQ LSZH	\$ 13.56	50%
1AB441420001	2 Hole Lug w/Window, 4 Flex, 3/8in Stud	\$ 5.81	50%
1AB441641045	Parent CA SM-BIF 8F LCU_SB-SCU_SB 36/36I	\$ 198.60	50%
1AB441641104	Parent CA SM-BIF 1F LCU_SB/LCU_SB, Int O	\$ 16.26	50%
1AB441641106	Parent CA SM-BIF 1F LCU_SB/SCU_SB, Int O	\$ 16.26	50%
1AB441641122	Parent CA SM-BIF 2F SCU_SB/SCU_SB, Int O	\$ 32.52	50%
1AB441641134	Parent CA SM-BIF 2F LCU_SB-LCU_SB 36/36I	\$ 70.40	50%
1AB441641135	Parent CA SM-BIF 2F LCU_SB-SCU_SB 36/36I	\$ 70.40	50%
1AB441641170	Parent CA SM-BIF 2F LCU_SB-STU 72/108IN	\$ 70.40	50%
1AB441810003	Parent CA SM-BIF 2F LCU_SB-SCU_SB 6/9FT	\$ 71.80	50%
1AB445430001	70A Standard-Trip Circuit Breaker 118161	\$ 58.63	50%
1AB448430001	Parent CA MM-BIF 12F LCU-LCU, 24/24in BO	\$ 422.40	50%
1AB450360001	LUG DISCONNECT FEM CRIMP_YELLOW 620um/88	\$ 0.34	50%
1AB457780002	Parent CA SM-BIF 2F LCU_SB-SCA, Int OFNR	\$ 39.62	50%
1AB457780003	Parent CA SM-BIF 2F LCA-LCU_SB, Int OFNR	\$ 39.62	50%
1AB461630001	Parent CA MM-BIF 2F LCU40-LCU, OFNP 2.0m	\$ 33.60	50%
1AB461630002	Parent CA MM-BIF 2F LCU40-SCU, OFNP	\$ 31.92	50%
1AB463340002	AC POWER CORD, EURO PSI	\$ 128.00	50%
1AB469590001	CONNECTOR, RCPT ASSY, 64 POS, C SLOT (CH	\$ 29.52	50%
1AB470360001	CABLE LAN FTP CAT5e RJ45 10M BK INDOOR	\$ 14.83	50%
1AB472790001	MODULAR ADAPTER, DB25(M) to RJ45,8P8C,GY	\$ 3.48	50%
1AB474280001	CA-MPT OM4 OPTICAL JUMPER CABLE 3.0M	\$ 613.00	50%
1AB474800002	QSFP28 100GBASE-LR4/OTU4 SMF 10KM	\$ 22,000.00	50%
1AB474800013	SFP+ 2/4/8G FC 850NM MMF 50/150M	\$ 198.40	50%
1AB474800017	XFP 10GBASE-SR 850NM MMF 300M	\$ 584.96	50%
1AB474800018	XFP 10GB/S MULTIRATE 1310NM SMF 10KM	\$ 628.48	50%
1AB474800019	XFP TUNABLE DWDM UP TO 11.3GB/S SMF 80KM	\$ 8,343.04	50%
1AB474800020	XFP 10GB/S MULTIRATE 1550NM SMF 40KM	\$ 2,699.52	50%
1AB474800021	XFP OC192/STM64:P1L1-2D2/10GBASE-Z 80KM	\$ 3,448.32	50%
1AB474800022	SFP 1000BASE-SX+1/2G FC 850NM MMF	\$ 80.64	50%
1AB474800023	SFP 1/2/4G FC 850NM MMF	\$ 185.60	50%
1AB474800025	SFP OC12-IR1/S.4-1 1310NM SMF 20KM	\$ 318.72	50%
1AB474800027	SFP OC48-SR/I-16.1 1310NM SMF 2KM	\$ 372.48	50%
1AB474800037	QSFP28 100GE CWD4 SMF 2KM	\$ 14,000.00	50%
1AB474810001	Lug, 4AWG 2-Hole 90 Degree, 1/2in stud,	\$ 12.34	50%
1AB476510005	CIRCUIT_BREAKER 80 VDC 25A 1P	\$ 125.64	50%
1AB476510006	CIRCUIT_BREAKER 80 VDC 40A 1P	\$ 125.64	50%
1AB476510007	CIRCUIT_BREAKER 80 VDC 50A 1P	\$ 46.55	50%
1AB477450001	CA SM SX 1.6 LCU40-LCU40 1M BL INDOOR	\$ 20.71	50%
1AB477460001	CA SM SX 1.6 LCU40-LCU40 0.5M BL INDOOR	\$ 20.11	50%
1AB478800001	CA-C AND L BAND(C/L)FILTER Y-CABLE	\$ 2,058.00	50%

1AB478930001	OPTO-SPLITTER SIMPLEX Y-CABLE	\$ 400.00	50%
1AB478960001	OPTO-SPLITTER 3DB DUPLEX Y-CABLE	\$ 650.00	50%
1AB484530001	CB LELK1-1RS4-30452-80 BULLET TYPE WHITE	\$ 124.99	50%
1AB490110001	CA MM 12F 3.0 MPO-MPO 10M AQ PVC OM4 BIF	\$ 604.01	50%
1AB490110010	CA MM 12F 3.0 MPO-MPO 20M AQ PVC OM4 IN	\$ 728.02	50%
1AB490110011	CA MM 12F 3.0 MPO-MPO 15M AQ PVC OM4 IN	\$ 979.08	50%
1AB490110012	CA SM 24F 3.6 MPO-MPO 100M YL PVC INDOOR	\$ 892.80	50%
1AB490110013	CA SM 24F 3.6 MPO-MPO 90M YL PVC INDOOR	\$ 854.40	50%
1AB490110014	CA SM 24F 3.6 MPO-MPO 80M YL PVC INDOOR	\$ 816.00	50%
1AB490110015	CA SM 24F 3.6 MPO-MPO 70M YL PVC INDOOR	\$ 775.20	50%
1AB490110016	CA SM 24F 3.6 MPO-MPO 60M YL PVC INDOOR	\$ 756.00	50%
1AB490110017	CA SM 24F 3.6 MPO-MPO 50M YL PVC INDOOR	\$ 741.60	50%
1AB490110018	CA SM 24F 3.6 MPO-MPO 30M YL PVC INDOOR	\$ 686.40	50%
1AB490110019	CA SM 24F 3.6 MPO-MPO 20M YL PVC INDOOR	\$ 643.08	50%
1AB490110020	CA SM 24F 3.6 MPO-MPO 15M YL PVC INDOOR	\$ 620.76	50%
1AB490110021	CA SM 24F 3.6 MPO-MPO 10M YL PVC INDOOR	\$ 598.44	50%
1AB490110022	CA SM 24F 3.6 MPO-MPO 40M YL PVC INDOOR	\$ 712.80	50%
1AB490110030	CA SM 12F 3.0 MPO-MPO 30M YL PVC OS2 BIF	\$ 1,003.18	50%
1AB490110031	CA SM 12F 3.0 MPO-MPO 20M YL PVC OS2 BIF	\$ 978.00	50%
1AB490110033	CA MM B 12F 3.0 MPO-MPO 100M AQ PVC OM4	\$ 2,719.25	50%
1AB490110035	CA MM B 12F 3.0 MPO-MPO 80M AQ PVC OM4	\$ 2,309.78	50%
1AB490110036	CA MM B 12F 3.0 MPO-MPO 60M AQ PVC OM4	\$ 1,900.34	50%
1AB490110037	CA MM B 12F 3.0 MPO-MPO 70M AQ PVC OM4	\$ 2,105.06	50%
1AB490110038	CA MM B 12F 3.0 MPO-MPO 50M AQ PVC OM4	\$ 1,695.62	50%
1AB490110039	CA MM B 12F 3.0 MPO-MPO 40M AQ PVC OM4	\$ 976.06	50%
1AB490110040	CA MM B 12F 3.0 MPO-MPO 30M AQ PVC OM4	\$ 852.05	50%
1AB490110041	CA MM B 12F 3.0 MPO-MPO 2M AQ PVC OM4 IN	\$ 392.11	50%
1AB490110042	CA MM B 12F 3.0 MPO-MPO 3FT AQ PVC OM4 I	\$ 379.90	50%
1AB490110043	CA SM A 12F 3.0 2xMPO_A_F 2M YL PVC OS2	\$ 866.28	50%
1AB490110044	CA SM A 12F 3.0 2xMPO_A_F 1M YL PVC OS2	\$ 860.81	50%
1AB490110045	CA MM B 12F 3.0 MPO-MPO 1M AQ PVC OM4 IN	\$ 380.86	50%
1AB490950001	Lug 8AWG 5/16 RED ONE HOLE	\$ 3.55	50%
1AB493500001	RJ45 PLUG BUNDLED CAT.5E CABLE 10FT	\$ 50.88	50%
1AB495100001	Silver Plated Wire Contacts, 1/0 AWG	\$ 11.16	50%
1AB496410001	CA 3.0 12PAIR 22AWG 6RJ45-UN 50FT	\$ 177.24	50%
1AB496420001	CA 3.0 12PAIR 22AWG 6RJ45-UN 25FT	\$ 108.67	50%
1AB496430001	CA 3.0 12PAIR 22AWG 6RJ45-UN 10FT	\$ 66.91	50%
1AB496440001	CA 3.0 12PAIR 22AWG 6RJ45-UN 5FT	\$ 52.73	50%
1AB497050001	Trimm Inc 60 Circuit breaker p/n 0300177	\$ 84.24	50%
1AB498080001	Lug 2AWG, 2-Hole 0.25IN Narrow	\$ 11.83	50%
1AB498520001	100A CONNECTOR 6-10 AWG	\$ 315.00	50%
1AB499880001	DAC 1m, 25G SFP28 to 25G SFP28 30AWG PVC	\$ 36.72	50%
1AB501310001	AC power cord-Saf-d-Grid to L6-20, 3mtrs	\$ 136.08	50%
1AB502380001	Lug 2AWG Class I, 1/4IN stud x 1IN O.C.	\$ 29.16	50%
1AB502470001	Fuse 12A GMT 102287	\$ 3.19	50%
1AB503020001	Lug 2 Hole w/Window 1/0 Flex 1/4in Stud	\$ 27.89	50%
1AB505050001	Single Pole Breaker 70A	\$ 80.40	50%
1AB505430001	CA SM DX 1.6 LCU40-LCU40 10M YL LSZH G65	\$ 56.35	50%
1AB505440001	CA SM SX 1.6 LCU_SB-LCU_SB 0.155M YL LSZ	\$ 23.83	50%
1AB505450001	CA SM SX 1.6 LCU_SB-LCU_SB 0.23M YL LSZH	\$ 24.34	50%
1AB505460001	CA SM DX 1.6 LCU40-LCU40 7M YL LSZH G652	\$ 55.80	50%
1AB505470001	CA SM DX 1.6 LCU40-LCU40 3.50M YL LSZH G	\$ 45.02	50%
1AB505480001	CA SM SX 1.6 LCU40-LCU40 2.35M YL LSZH G	\$ 22.32	50%
1AB505490001	CA SM SX 1.6 LCA40-LCA40 0.61M YL LSZH G	\$ 28.39	50%
1AC000570003	PLASTICS IRTS POLYOLEFIN_BLACK 3/8 NONE	\$ 3.02	50%

1AC000570008	19mm heat shrinkable tubing black	\$ 3.55	50%
1AC000570009	PLASTICS IRTS POLYOLEFIN POLYOLEFIN-BLAC	\$ 2.11	50%
1AC001060074	CBL00849580000000 CBL 1C FLEX 10MM2 V-AM	\$ 2.66	50%
1AC016760003	CABLE 4 PAIR SHIELED	\$ 6.75	50%
1AC020900002	PWR WIRE, 1/0 STR, CLASS I BLUE, BRAIDE	\$ 6.02	50%
1AC021080001	PWR WIRE, 40011, 4 STR, KS24194 L4, CLAS	\$ 3.00	50%
1AC021650001	PWR WIRE, 40038, 350 STR, TELCOFLEX IV K	\$ 15.61	50%
1AC021830001	PWR WIRE, 40014, 2 STR, KS24194 L4, CLAS	\$ 5.14	50%
1AC025770001	HEAT SHRINK TBG RNF-100-1/4-CL-STK, CLEA	\$ 0.94	50%
1AC025860001	PWR WIRE, 39772, 4 STR, CLASS I GRAY, B	\$ 3.00	50%
1AC028080001	PWR WIRE, 40021, 1/0 STR, CLASS I RED,	\$ 6.26	50%
1AC040000001	Cat 6 4-pair UTP Cable_Grey 305Meters	\$ 2.36	50%
1AC045350001	TUBE, R-6189, Quikrete_8620-13, 5.5oz co	\$ 7.30	50%
1AC049130001	PWR WIRE,40009,4 STR,CLASS I RED,BRAIDED	\$ 3.00	50%
1AC053320001	PWR CBL 450/750V 1x10mm2 TH/LSZH GN/YW	\$ 3.99	50%
1AC054190002	Optical Cable: 24 Fiber, G.657A.2 O/I SM	\$ 8.60	50%
1AC055600001	Child FO Cbl SM-BIF 2F Int OFNR/LSZH Zip	\$ 0.24	50%
1AC055610001	Child FO Cbl SM-BIF 1F Int OFNR/LSZH 1.6	\$ 0.20	50%
1AC056420001	Child FO Cbl MM-BIF 12F BB OFNR Breakout	\$ 3.09	50%
1AC057971002	Child FO Cable SM-BIF 8F Backbone OFNR	\$ 1.54	50%
1AC057971014	Child FO Cable SM-BIF 2F Backbone OFNR B	\$ 0.44	50%
1AC057971015	Child FO Cable SM-BIF 1F Backbone OFNR/L	\$ 0.20	50%
1AC058090001	Child FO Cable MM-BIF 2F OFNP 2.0mm AQ I	\$ 0.44	50%
1AD001970043	NUT*HEX*HEX-HD-M10*8.22MM-SS(A2-70)*PASS	\$ 0.47	50%
1AD005740037	LABEL 35x31,75x0,045mm	\$ 0.11	50%
1AD013890004	NUT/MISC-M 6,000L	\$ 105.60	50%
1AD018570007	O.F. STORAGE TRAY LEFT	Custom Bid	0%
1AD031630001	HPUL RAIL 4U 19inch /21inch	\$ 83.98	50%
1AD035260002	FIBER ADAPTER PATCH PANEL	\$ 60.14	50%
1AD039480001	BUSBAR CONNECTION TERMINAL ABB ZK 154	\$ 36.30	50%
1AD057870002	4x4 Dual 2 inch Flex Tube Att-FGS-KT03-A	\$ 124.20	50%
1AD058550001	Horizontal T-part FGS-MHTA-C	\$ 104.78	50%
1AD082730009	OPTICAL SPLICING MODULE_MOB24 LC/LC_LEFT	\$ 755.52	50%
1AD086000001	Packing ECN3965 TAPE AND DISPENSER KIT C	\$ 60.48	50%
1AD087020001	Patchfeld (4HE)*120 SC Duplexkupplungen	\$ 881.26	50%
1AD087030001	Patchfeld (1HE)*120 Port SC Kupplungen	\$ 31.71	50%
1AD087190001	cable bracket 1HE 100mm	\$ 4.83	50%
1AD087370007	Label Kit, R-6045-L14A, ATT MSP Job/Ord	\$ 459.07	50%
1AD088510001	FGS-HNTR-1/2 inch Support Kit	\$ 52.42	50%
1AD088630001	SNAP-ON COVER 904X6	\$ 83.76	50%
1AD093020001	Plastic part DUCT EXPRESS EXIT PLASTIC_D	\$ 196.20	50%
1AD093360001	Mech part 19IN TOWEL BAR STEEL_TOWEL BAR	\$ 19.44	50%
1AD093650001	BRACKETS KIT SX/DX 5U 19	\$ 152.90	50%
1AD101930001	CRIMPING Use According to HEX	Custom Bid	0%
1AD111260001	(SUB)RACK NAKED 19INCH >-INDOOR 23/19INx	\$ 1,602.00	50%
1AD112400001	FIDT4X4BL organizador interno canaleta	Custom Bid	0%
1AD120030001	Plastic part SHRINK TUBING, RED, 22AWG p	\$ 3.46	50%
1AD123540001	ADAPTOR CABLE 2X32P_CONN TO 3X24P	\$ 140.34	50%
1AD127290001	Strut End cap - MEK grey, 1 BOX of 50 EA	\$ 108.00	50%
1AD135630001	Plate 2U 19 for-4 batteries 151x65x99	\$ 134.84	50%
1AD140520001	Unistrut 1/2-13_Spring Nut P4010	\$ 2.52	50%
1AD144210001	FO Duct, E2X2YL6, Yellow FO Protective D	\$ 57.74	50%
1AD145990001	STORAGE STRAY 48FO 1U R/L 19P/ETSI	Custom Bid	0%
1AD147550001	BANDEAU ENERGIE_TRU 19P MSB_4644	\$ 309.65	50%
1AD151800001	Plastic part DUCT COUPLING ADAPTER, 4IN,	\$ 20.90	50%

1AD155410001	48 VDC fan_w/ CMC monitoring_800x800	\$ 2,741.95	50%
1AD155420001	48 VDC fan_w/ CMC monitoring_WxD 600x800	\$ 1,561.39	50%
1AD155430001	48 VDC fan_w/ CMC monitoring_600x600	\$ 2,706.31	50%
1AD164700001	KIT, CABLE GUIDE ASSY,_CGA05775, CABLE G	\$ 74.16	50%
1AD168270001	Plastic part TUBING, 7/8X50FT, YELLOW, S	\$ 302.98	50%
1AD173520001	Kit of 50 M6 Screws and 50 Cage Nuts	\$ 138.43	50%
1AD173640001	BRL Cushion BC141X 1-5/8",10@0.24",10p	\$ 36.91	50%
1AD173900001	LABEL for 3mm DUPLEX FIBER - WHITE	\$ 0.20	50%
1AD174570001	Horizontal Rack Ground_Bar Kit	\$ 144.82	50%
1AD176260001	1 Inch Schedule 40 Steel_Pipe (Dark Gray	\$ 57.84	50%
1AD205740002	2232060045 Newton ALU 7950 BLACK seismic	\$ 6,311.06	50%
1AD207260001	12-24x3/4 PHILLIPS HEAD MACHINE SCREW	\$ 0.43	50%
1AD207270001	12-24x3/8 PHILLIPS HEAD MACHINE SCREW	\$ 0.26	50%
1AD207280001	FGS-KTW2-R: FGS VERT DUCT KIT 2W X 4H YE	\$ 237.07	50%
1AD212160001	Mech part Ty-Rap Saddle Support Mounting	\$ 0.86	50%
1AD215810002	224541009Q Newton Cabinet XRS-20e WHITE	\$ 15,237.24	50%
1AD215810005	222279019Q Newton 4in WHITE Vertical Cab	\$ 305.88	50%
1AD217030001	12-24x1.00 PH SCREW	\$ 0.86	50%
1AD218070001	2 Post Rack Shelf- 13in Vented Flanges D	\$ 142.15	50%
1AF06266AAAA	TAG, 145PTAG, Burndy, Flame Ret Nylon, 9	\$ 0.74	50%
1AF06632AAAA	PWR SPARE/ACCESSORY_BLIND PANEL, 236408	\$ 28.99	50%
1AF06812AAAA	RECTIFIER, 100.7670.4825, DOUBLE FUSED,	\$ 1,262.40	50%
1AF07283AAAA	Rectifier Module APR48-3G 48V 1800W	\$ 349.15	50%
1AF07284AAAA	OPTICAL SPLICING MODU_MOB24 SC/APC_RIGHT	\$ 300.00	50%
1AF07716AAAA	Install Mat DUCT_4x4 horizontal T_Snap-o	\$ 107.69	50%
1AF07717AAAA	Install Mat DUCT_4x4 90 horizontal_elbow	\$ 79.39	50%
1AF09631AHAA	JF11-0015A,48240V4U25AR0325A,125AH,19in	\$ 14,995.44	50%
1AF09782AAAA	PHB SR30A-0048/09, COMPOSED OF	\$ 1,828.00	50%
1AF09888AAAA	ADVA_150CC-584 Unit_AC power cord left a	\$ 1,726.92	50%
1AF10504AAAA	BAT_12V_7.2Ah_FG20722_PB	\$ 23.51	50%
1AF17969AAAA	THERMAL TRANSFER PRINTABLE TRANSLUCENT V	\$ 88.27	50%
1AF20293AAAA	Install Mat Z INST ACCESSORIES CUST PJ_C	\$ 199.80	50%
1AF20294AAAA	Drop Attachment 4X4 Channel Telect	\$ 117.00	50%
1AF20353AAAA	Trax (4) dual split tube adapter, 027-20	\$ 46.20	50%
1AF20354AAAA	Install Mat Z INST ACCESSORIES CUST PJ_i	\$ 141.67	50%
1AF20600AAAA	Hose 2 in Telect	\$ 404.69	50%
1AF21890AAAA	FLATPACK2_48-60/2000_RECT MODULE	\$ 796.80	50%
1AF23256AAAA	FRSPJC24YL Cover for Spill-Over Junction	\$ 90.62	50%
1AF23377AAAA	Horizontal Cable Manager Front 1RU 19	\$ 65.47	50%
1AF26722AAAA	Eltek Flatpack S 48/1000HE	\$ 283.20	50%
1AF28732AAAA	Flatpack S 48/1800 HE	\$ 464.02	50%
1AF28741AAAA	50KVA inverter 230VAC	\$ 97,356.00	50%
1AF29759AAAA	KoldLok Integral Raised Floor Grommet, P	\$ 203.64	50%
1AF30508AAAA	FPX-1FR000-000 Panel, 1RU, 19in, putty w	\$ 446.16	50%
1AF31252AAAA	Major Accounts - Wireline Label Kit	\$ 388.73	50%
1AF31253AAAA	Major Accounts - Wireline Ribbon Kit	\$ 90.60	50%
1AF31339AAAA	Saddle nut MQA-F 1/2in, 377886, box 50pc	\$ 450.48	50%
1AF31645AAAA	HIGH VOLTAGE DC POWER SUPPLY PSI-M	\$ 3,624.00	50%
1AF31854AAAA	ODF_FMT Fiber Storage Panel 1ru, 19in	\$ 601.42	50%
1AF32252AAAA	Vertical duct, 1IN GRAY, 6FT	\$ 79.20	50%
1AF32253AAAA	Vertical duct cover, 1IN, 6FT	\$ 12.53	50%
1AF32744AAAA	6ft AC power cable C13 to C14 10A 18AWG	\$ 7.58	50%
1AF32769AAAA	6ft AC power cable C13 to C14 13A 16AWG	\$ 15.12	50%
1AF32856AAAA	Rectiverter 230/48 Module 2kW	\$ 878.40	50%
1AF32977AAAA	Inverter 2000 for IXR-X1/Xs	\$ 2,270.40	50%

1AF40919AAAA	kit de tierra- feeder / 7/8	\$ 20.68	50%
1AH03594AAAA	SW_ROYALTIES_Network Mgmt - Application	\$ 382.80	50%
1AK03660AAAA	HP 2m Multi-mode OM3 LC/LC FC Cable	\$ 52.54	50%
1AK09874AAAA	HP 58x0AF Bck(pwr)-Frt(ports) Fan Tray	\$ 301.49	50%
1AK10867AAAA	HPE 32GB 2Rx4 PC4-2400T-R Kit	\$ 993.36	50%
1AK11052AAAA	HPE 12Gb DL380 Gen9 SAS Expander Card	\$ 1,269.69	50%
1AK14865AAAA	HPE 300GB SAS 10K SFF SC DS HDD	\$ 423.59	50%
1AK17711AAAA	ANTENNA KITS (10M) FOR GNSS SFP MODULE	\$ 5,490.00	50%
1AK17712AAAA	CA-ANTENNA CABLE (60M) FOR GNSS SFP MODU	\$ 2,196.00	50%
1AK22172AAAA	Nokia-Complete ION KIT	\$ 256.80	50%
21103140AAEA	PLUG-IN CABLE, CA 24RU02	Custom Bid	0%
21103140AAFA	PLUG-IN CABLE, CA 24RU02	Custom Bid	0%
21103140AAGA	PLUG-IN CABLE, CA 24RU02	Custom Bid	0%
21119963AABA	PLUG ASSEMBLY PLA-JMP05	\$ 2.06	50%
21119963AACA	U-PLUG JMP05	\$ 3.20	50%
3AG33109AC	BLANK PLATE,1830 PSS-36/64,FULL SLOT	\$ 119.00	50%
3AG33109ACAA	BLANK PLATE, FULL SLOT	\$ 119.00	50%
3AG33173AAAA	BLANK PLATE	\$ 172.80	50%
3AG33233AA	HIGH POWER CONN, FUSE & ALARM PANEL	\$ 4,422.60	50%
3AG33233AAXX	HIGH POWER CONN, FUSE AND ALARM PANEL	\$ 4,423.00	50%
3AG33543ABAA	PSS-64/36 DIRECT SHIPMENT EXTRA TEMPERATURE	\$ 5,327.00	50%
3AG33543ADAA	PSS-64/36 DIR SHIPM. EXTRA TEST DURATION	\$ 3,660.00	50%
3AG33544AAAA	PSS-64/36 FAT STANDARD	\$ 6,346.00	50%
3AG33589AA	DUST FILTER	\$ 238.00	50%
3AG33589AAAA	DUST FILTER	\$ 238.00	50%
3AG33657AA	RACK ALARM UNIT	\$ 1,688.00	50%
3AG33657AAAA	RACK ALARM UNIT	\$ 1,688.00	50%
3AG33682AAXX	SENSOR KIT PRESSURE	\$ 691.20	50%
3AG33752AA	PLUG KIT, XFP DUMMY	\$ 130.95	50%
3AG33752AAAA	PLUG KIT, XFP DUMMY	\$ 130.95	50%
3AG34592AAAA	SWP 1830PSS-OCS R9.1.0	\$ 115.00	50%
3AG34593AAAA	SWPL 1830PSS-OCS R9.1.0	\$ 77.00	50%
3AL35074AA	CIRCUIT BREAKER MODULE (2CB/80A OR 1CB/1	\$ 586.00	50%
3AL35084AA	ONETRU FRAME	\$ 787.00	50%
3AL35098BA	CIRCUIT BREAKER W/ AUX CONTACT (100A)	\$ 229.50	50%
3AL35098BF	ONETRU CIRCUIT BREAKER W/ AUX CONTACT (1	\$ 283.50	50%
3AL35113AA	INTERCONNECTION KIT	\$ 184.95	50%
3AL75117ACAA	ESWL WDM ETHERNET BLADE LIC. PT FEE N-E	\$ 192.00	50%
3AL75118ACAA	ESWL TDM ETHERNET BLADE LIC. PT FEE N-E	\$ 256.00	50%
3AL81776AA	XFP DWDM TUNABLE CT	\$ 8,460.00	50%
3AL81920AA	1000BASE-BX10 2CH BIDI CSFP (UPSTREAM,13	\$ 373.00	50%
3AL81921AA	1000BASE-BX10 2CH BIDI CSFP (DOWNSTREAM,	\$ 412.00	50%
3AL82020AA	CFP4 100GBASE-LR4 (4X25G) SINGLE RATE 10	\$ 29,019.00	50%
3AL82022AA	CFP2 100G BASE-ER4 (4X25G) SINGLE RATE 100GE	\$ 38,258.00	50%
3AL82023AA	CFP4 100GBASE-LR4/OTU-4 (4X25G) DUAL RAT	\$ 34,000.00	50%
3AL82046AA	CFP4 100GBASE-SR4 SINGLE RATE 100GE	\$ 7,346.00	50%
3AL82067AA	1DC100M CFP DIGITAL COHERENT 100G METRO	\$ 184,000.00	50%
3AL82073AF	SFP+ DWDM 40KM (CH55) -40/85	\$ 2,229.00	50%
3AL82073AP	SFP+ DWDM 40KM (CH47) -40/85	\$ 2,229.00	50%
3AL82073AS	SFP+ DWDM 40KM (CH44) -40/85	\$ 2,229.00	50%
3AL82073AX	SFP+ DWDM 40KM (CH39) -40/85	\$ 2,229.00	50%
3AL82073BA	SFP+ DWDM 40KM (CH36) -40/85	\$ 2,229.00	50%
3AL82073BF	SFP+ DWDM 40KM (CH31) -40/85	\$ 2,229.00	50%
3AL82073BJ	SFP+ DWDM 40KM (CH28) -40/85	\$ 2,229.00	50%
3AL82073BS	SFP+ DWDM 40KM (CH20) -40/85	\$ 2,229.00	50%

3AL82073BT	SFP+ DWDM 40KM (CH19) -40/85	\$ 2,229.00	50%
3AL82073BV	SFP+ DWDM 40KM (CH17) -40/85	\$ 2,229.00	50%
3AL82076AA	SFP GBE CWDM SH 1471NM (-40/85)	\$ 1,069.00	50%
3AL82076AB	SFP GBE CWDM SH 1491NM (-40/85)	\$ 1,069.00	50%
3AL82076AD	SFP GBE CWDM SH 1531NM (-40/85)	\$ 1,069.00	50%
3AL82076AE	SFP GBE CWDM SH 1551NM (-40/85)	\$ 1,069.00	50%
3AL82076AF	SFP GBE CWDM SH 1571NM (-40/85)	\$ 1,069.00	50%
3AL82076AG	SFP GBE CWDM SH 1591NM (-40/85)	\$ 1,069.00	50%
3AL82076AH	SFP GBE CWDM SH 1611NM (-40/85)	\$ 1,069.00	50%
3AL82107AA	SFP+ CPRI2-6 (15KM) -40/85	\$ 208.00	50%
3AL82110AJ	SFP+ DWDM 40KM APD CH52 -40/85	\$ 3,258.00	50%
3AL82110AK	SFP+ DWDM 40KM APD CH51 -40/85	\$ 3,258.00	50%
3AL82110AM	SFP+ DWDM 40KM APD CH49 -40/85	\$ 3,258.00	50%
3AL82110BA	SFP+ DWDM 40KM APD CH36 -40/85	\$ 3,258.00	50%
3AL82110BM	SFP+ DWDM 40KM APD CH25 -40/85	\$ 3,258.00	50%
3AL82110BN	SFP+ DWDM 40KM APD CH24 -40/85	\$ 3,258.00	50%
3AL82150AA	C2ACO CFP2-ACO	\$ 145,280.00	50%
3AL82161AA	SFP28 25GE_10GE_CPRI7/8/10 SR -40/85	\$ 907.00	50%
3AL82162AA	SFP28 25GE_10GE_CPRI7/8/10 LR -40/85	\$ 1,657.00	50%
3AL82163AA	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH61	\$ 7,412.00	50%
3AL82163AB	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH60	\$ 7,412.00	50%
3AL82163AC	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH59	\$ 7,412.00	50%
3AL82163AD	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH58	\$ 7,412.00	50%
3AL82163AE	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH57	\$ 7,412.00	50%
3AL82163AF	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH56	\$ 7,412.00	50%
3AL82163AG	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH55	\$ 7,412.00	50%
3AL82163AH	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH54	\$ 7,412.00	50%
3AL82163AJ	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH53	\$ 7,412.00	50%
3AL82163AK	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH52	\$ 7,412.00	50%
3AL82163AL	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH51	\$ 7,412.00	50%
3AL82163AM	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH50	\$ 7,412.00	50%
3AL82163AN	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH49	\$ 7,412.00	50%
3AL82163AP	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH48	\$ 7,412.00	50%
3AL82163AQ	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH47	\$ 7,412.00	50%
3AL82163AR	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH46	\$ 7,412.00	50%
3AL82163AS	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH45	\$ 7,412.00	50%
3AL82163AT	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH44	\$ 7,412.00	50%
3AL82163AU	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH43	\$ 7,412.00	50%
3AL82163AV	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH42	\$ 7,412.00	50%
3AL82163AW	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH41	\$ 7,412.00	50%
3AL82163AX	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH40	\$ 7,412.00	50%
3AL82163AY	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH39	\$ 7,412.00	50%
3AL82163AZ	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH38	\$ 7,412.00	50%
3AL82163BA	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH37	\$ 7,412.00	50%
3AL82163BB	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH36	\$ 7,412.00	50%
3AL82163BC	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH35	\$ 7,412.00	50%
3AL82163BD	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH34	\$ 7,412.00	50%
3AL82163BE	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH33	\$ 7,412.00	50%
3AL82163BF	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH32	\$ 7,412.00	50%
3AL82163BG	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH31	\$ 7,412.00	50%
3AL82163BH	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH30	\$ 7,412.00	50%
3AL82163BJ	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH29	\$ 7,412.00	50%
3AL82163BK	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH28	\$ 7,412.00	50%
3AL82163BL	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH27	\$ 7,412.00	50%
3AL82163BM	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH26	\$ 7,412.00	50%

3AL82163BN	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH25	\$ 7,412.00	50%
3AL82163BP	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH24	\$ 7,412.00	50%
3AL82163BQ	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH23	\$ 7,412.00	50%
3AL82163BR	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH22	\$ 7,412.00	50%
3AL82163BS	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH21	\$ 7,412.00	50%
3AL82163BT	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH20	\$ 7,412.00	50%
3AL82163BU	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH19	\$ 7,412.00	50%
3AL82163BV	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH18	\$ 7,412.00	50%
3AL82163BW	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH17	\$ 7,412.00	50%
3AL82163BX	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH16	\$ 7,412.00	50%
3AL82163BY	SFP28 25GE_10GE_CPRI7/8/10 13KM DW CH15	\$ 7,412.00	50%
3AL82164AA	QSFP28 E4WDM-10 4X25GE_CPRI7/8/10_10GE I	\$ 8,284.00	50%
3AL82172AA	XFP DWDM TUNABLE Z-CHIRP -5/+70	\$ 4,055.00	50%
3AL82173AA	SFP 2MBPS 2KM CT MMF	\$ 157.00	50%
3AL82174AA	XFP DWDM TUNABLE Z-CHIRP -5/+70	\$ 4,055.00	50%
3AL82178AA	QSFP28 100GE 4WDM-20 BIDI-U -20/+85	\$ 7,181.00	50%
3AL82179AA	QSFP28 100GE 4WDM-20 BIDI-D -20/+85	\$ 7,181.00	50%
3AL82183AA	SFP+ 10GBASE-ZR/P1L1-2D2 80KM ET W/ OID	\$ 3,444.00	50%
3AL82184AA	SFP+ 10GBASE-ER/P1S1-2D2B 40KM ET W/ OID	\$ 2,311.00	50%
3AL82185AA	SFP L-16.2/LR-2 80KM IT W/ OID	\$ 1,657.00	50%
3AL82186AA	SFP L-16.1/LR-1 40KM IT W/ OID	\$ 1,038.00	50%
3AL82221AA	SFP BIDI OTC-D STM-1/GE ULH 1514NM IT	\$ 2,398.00	50%
3AL89857AAAA	SFP DUMMY PLUG KIT	\$ 17.14	50%
3AL91622ABXX	MA NG TRU BYPASS EXT	Custom Bid	0%
3AN44747AA	MA TO HOST 2 SPOOLS	\$ 139.00	50%
3AN44747AAXX	21 INCHES D.C.U.ASSEMBLED SUPPORT	\$ 139.00	50%
3AN51356ABAA	TRU DUMMY COVER	Custom Bid	0%
3HE07939AA	7705 SAR-O 2-FIBER CWDM 4 COLOR1471-1531	\$ 3,671.00	50%
3HE07939BA	7705 SAR-O 2-FIBER CWDM 4 COLOR1551-1611	\$ 3,927.00	50%
3KC12828AC	ED 4 EQUIPMENT CONTROLLER (-40 / 65C)	\$ 3,220.00	50%
3KC12831AB	ED4 POWER FILTER(DC) WITH WT EM-HARDENED	\$ 2,041.00	50%
3KC12831ABXX	ED4 POWER FILTER(DC) WITH WT EM-HARDENED	\$ 2,041.00	50%
3KC12831CA	ED4 POWER FILTER(DC) W/WT EM-HARDENED V2	\$ 1,935.00	50%
3KC12834AC	ED 4 POWER FILTER (AC) WITH WT-HARDENED	\$ 4,770.00	50%
3KC12841AA	ED 4 FAN UNIT HARDENED	\$ 1,418.00	50%
3KC12841AAXX	ED 4 FAN UNIT HARDENED	\$ 1,418.00	50%
3KC12852AA	ED 4 STATIC FILTER HARDENED CWDM 4 CH (A	\$ 2,822.00	50%
3KC12852AAXX	ED 4 STATIC FILTER HARDENED CWDM 4 CH (A	\$ 2,822.00	50%
3KC12852AB	ED 4 STATIC FILTER HARDENED CWDM 4 CH (B	\$ 2,822.00	50%
3KC12852ABXX	ED 4 STATIC FILTER HARDENED CWDM 4 CH (B	\$ 2,822.00	50%
3KC12853AA	ED 4 STATIC FILTER HARDENED CWDM 8 CH	\$ 4,920.00	50%
3KC12853AAXX	ED 4 STATIC FILTER HARDENED CWDM 8 CH	\$ 4,920.00	50%
3KC12854AA	ED 4 STATIC FILTER HARDENED DWDM 8 CH (A	\$ 7,383.00	50%
3KC12854AAXX	ED 4 STATIC FILTER HARDENED DWDM 8 CH (A	\$ 7,383.00	50%
3KC12854AB	ED 4 STATIC FILTER HARDENED DWDM 8 CH (B	\$ 7,383.00	50%
3KC12854ABXX	ED 4 STATIC FILTER HARDENED DWDM 8 CH (B	\$ 7,383.00	50%
3KC12854AC	ED 4 STATIC FILTER HARDENED DWDM 8 CH (C	\$ 7,383.00	50%
3KC12854ACXX	ED 4 STATIC FILTER HARDENED DWDM 8 CH (C	\$ 7,383.00	50%
3KC12854AD	ED 4 STATIC FILTER HARDENED DWDM 8 CH (D	\$ 7,383.00	50%
3KC12854ADXX	ED 4 STATIC FILTER HARDENED DWDM 8 CH (D	\$ 7,383.00	50%
3KC12857AA	ED 4 STATIC FILTER HARDENED DWDM 4 CH (A	\$ 4,727.00	50%
3KC12857AAXX	ED 4 STATIC FILTER HARDENED DWDM 4 CH (A	\$ 4,727.00	50%
3KC12857AB	ED 4 STATIC FILTER HARDENED DWDM 4 CH (B	\$ 4,727.00	50%
3KC12857ABXX	ED 4 STATIC FILTER HARDENED DWDM 4 CH (B	\$ 4,727.00	50%
3KC12857AC	ED 4 STATIC FILTER HARDENED DWDM 4 CH (C	\$ 4,727.00	50%

3KC12857ACXX	ED 4 STATIC FILTER HARDENED DWDM 4 CH (C	\$ 4,727.00	50%
3KC12857AD	ED 4 STATIC FILTER HARDENED DWDM 4 CH (D	\$ 4,727.00	50%
3KC12857ADXX	ED 4 STATIC FILTER HARDENED DWDM 4 CH (D	\$ 4,727.00	50%
3KC12857AE	ED 4 STATIC FILTER HARDENED DWDM 4 CH (E	\$ 4,727.00	50%
3KC12857AEXX	ED 4 STATIC FILTER HARDENED DWDM 4 CH (E	\$ 4,727.00	50%
3KC12857AF	ED 4 STATIC FILTER HARDENED DWDM 4 CH (F	\$ 4,727.00	50%
3KC12857AFX	ED 4 STATIC FILTER HARDENED DWDM 4 CH (F	\$ 4,727.00	50%
3KC12857AG	ED 4 STATIC FILTER HARDENED DWDM 4 CH (G	\$ 4,727.00	50%
3KC12857AGXX	ED 4 STATIC FILTER HARDENED DWDM 4 CH (G	\$ 4,727.00	50%
3KC12857AH	ED 4 STATIC FILTER HARDENED DWDM 4 CH (H	\$ 4,727.00	50%
3KC12857AHXX	ED 4 STATIC FILTER HARDENED DWDM 4 CH (H	\$ 4,727.00	50%
3KC12864AA	ED 4 DUST FILTER	\$ 11.00	50%
3KC12864AAXX	ED 4 DUST FILTER	\$ 11.00	50%
3KC12890AA	ED 4 SHELF COVER - ALL RACK SIZES	\$ 37.00	50%
3KC12890AAXX	ED 4 SHELF COVER - ALL RACK SIZES	\$ 37.00	50%
3KC12949AAXX	ED 4 CA-HK CABLE, 15M, SHIELDED (ANSI)	\$ 43.00	50%
3KC12950AA	ED 4 POWER FILTER BLANK	\$ 132.00	50%
3KC12950AAXX	ED 4 POWER FILTER BLANK	\$ 132.00	50%
3KC12952AA	ED 4 STATIC FILTER BLANK (1/2 SLOT)	\$ 113.00	50%
3KC12952AAXX	ED 4 STATIC FILTER BLANK (1/2 SLOT)	\$ 113.00	50%
3KC12953AA	ED 4 STATIC FILTER BLANK (FULL SLOT)	\$ 169.00	50%
3KC12953AAXX	ED 4 STATIC FILTER BLANK (FULL SLOT)	\$ 169.00	50%
3KC12954BA	CA-ED 4 DC POWER SUP,5M(ANSI,-48V/24V)	\$ 76.00	50%
3KC12954BAXX	CA-ED 4 DC POWER SUP,5M(ANSI,-48V/24V)	\$ 76.00	50%
3KC12954BB	CA-ED 4 DC POWER SUP,10M(ANSI,-48V/24V)	\$ 127.00	50%
3KC12954BBXX	CA-ED 4 DC POWER SUP,10M(ANSI,-48V/24V)	\$ 127.00	50%
3KC12954BC	CA-ED 4 DC POWER SUP,3.6M(ANSI,-48V/24V)	\$ 63.00	50%
3KC12954BCXX	CA-ED 4 DC POWER SUP,3.6M(ANSI,-48V/24V)	\$ 63.00	50%
3KC12959AC	ED PSS 4 SHELF KIT(E4SHF, E4EC, E4FAN) H	\$ 6,349.00	50%
3KC12960AA	ED 4 SHELF	\$ 3,477.00	50%
3KC12960AAXX	ED 4 SHELF-SHELF,BP,SHELF ID,DUST FILTER	\$ 3,477.00	50%
3KC13016AAXX	AC CABLE ADAPTOR	\$ 35.00	50%
3KC13063AAAA	PRE-STAGING 1830PSS-4 STANDARD	\$ 2,159.00	50%
3KC13064AAAA	PRE-STAGING 1830PSS-4 EXTRA TEST	\$ 720.00	50%
3KC13065AAAA	PRE-STAGING 1830PSS-4 EXTRA TEMP	\$ 2,777.00	50%
3KC13066AAAA	PRE-STAGING 1830PSS-4 EXTRA TIME	\$ 3,838.00	50%
3KC13067AAAA	ACI-1830PSS4 FAT STANDARD	\$ 6,346.00	50%
3KC13130CD	CA-E1/DS1 2MHZ AND 1PPS ToD,20M	\$ 159.30	50%
3KC13130CE	CA-E1/DS1 2MHZ AND 1PPS ToD, 5M	\$ 57.50	50%
3KC13130DA	CA-1PPS(50Ohm) (SMB 1.0/2.3 - BNC), 1M	\$ 32.60	50%
3KC13130EA	CA-100ohm 1PPS ToD w/ RJ48C, 5m	\$ 50.17	50%
3KC13130EC	CA-100ohm 1PPS ToD w/ RJ48C, 20m	\$ 118.30	50%
3KC13172AA	CA-1830PSS4 CRAFT INTERFACE TERMINAL(CIT	\$ 122.00	50%
3KC13310AA	11DPM8 - 8XANY MUXPONDER	\$ 14,780.00	50%
3KC13331AA	ED 4 SHELF EXTENDED COVER	\$ 909.00	50%
3KC13333AA	ED 4 MOUNTING BRACKETS(19,23 INCHES)	\$ 381.00	50%
3KC13361AA	ED4 RACK INSTL KIT(19 INCH) NO PWR CABLE	\$ 555.00	50%
3KC13361AB	ED4 INSTALLTN KIT(ANSI RACK)W/O PWR CBLE	\$ 586.00	50%
3KC13402AAAA	ACI-NMS INSTALLATION&TEST	\$ 32,010.00	50%
3KC13550AAAA	SWP-1830PSS-4 R9.1.0	\$ 116.00	50%
3KC13552AAAA	SWPL 1830PSS-4 R9.1.0	\$ 77.00	50%
3KC13560AAAA	SWP-1830PSS-4 R10.0.0	\$ 90.00	50%
3KC13846AAAA	SWP 1830PSS-4 R13.0.0	\$ 115.00	50%
3KC19289AA	VWM STATIC FILTER CWDM 8 CH (AA VARIANT)	\$ 3,769.50	50%
3KC19289BA	VWM STATIC FILTER CWDM 8 CH (BA VARIANT)	\$ 4,274.00	50%

3KC19289CA	VWM STATIC FILTER CWDM 8 CH (CA VARIANT)	\$ 4,354.00	50%
3KC19289CP	VWM STATIC FILTER CWDM 4 CH (CP VARIANT)	\$ 2,735.00	50%
3KC19289CQ	VWM STATIC FILTER CWDM 4 CH (CQ VARIANT)	\$ 2,734.50	50%
3KC19289DA	VWM BAND SPLITTER/COMBINER	\$ 1,728.30	50%
3KC19387AA	VWM SHELF KIT (CWDM 19)	\$ 1,320.00	50%
3KC19387AAXX	VWM SHELF KIT (CWDM 19 INCHES)	\$ 1,320.00	50%
3KC19388AA	VWM SHELF KIT (CWDM 21 INCH)	\$ 1,320.00	50%
3KC19389AA	VWM SHELF KIT (CWDM ANSI)	\$ 1,320.00	50%
3KC19389AAXX	VWM SHELF KIT (CWDM ANSI)	\$ 1,320.00	50%
3KC35392ABXX	ONETRUI KIT, ANSI	\$ 12,832.00	50%
3KC41016AA	KIT, ONERACK BULGED DOOR W/ LEFT HANDLE	\$ 3,900.00	50%
3KC42969AA	VWM EC SLOT BLANK COVER	\$ 268.00	50%
3KC43050AA	1830 PASSIVE VWM KIT	\$ 10,172.00	50%
3KC43057AA	1830 VWM DC2 INDOOR SHELF 1RU, 19 INCH	\$ 6,560.00	50%
3KC43058AB	1830 VWM DC2 OCML PLUGGABLE, V1, W OTDR	\$ 27,300.00	50%
3KC43059AB	1830 VWM DC2 OCML PLUGGABLE, V2, w/ OTDR	\$ 34,800.00	50%
3KC43060AA	1830 VWM DC2 POWER SUPPLY MODULE, DC	\$ 800.00	50%
3KC43061AA	1830 VWM DC2 POWER SUPPLY MODULE, AC	\$ 700.00	50%
3KC43062AA	1830 VWM DC2 FAN MODULE	\$ 360.00	50%
3KC43063AA	1830 VWM DC2 INSTALLATION KIT	\$ 400.00	50%
3KC43069AA	1830 VWM DC2 BLANK COVER	\$ 250.00	50%
3KC43070AA	1830 VWM DC2 FIBER MANAGEMENT BRACKET	\$ 400.00	50%
3KC43093AAAA	ESWP 1830 VWM MS R8.5.1	\$ 115.00	50%
3KC43096AAAA	ESWP 1830 VWM SMM R8.5.1	\$ 115.00	50%
3KC43105AA	SHELF 19IN, 0.5RU, 4 SLOTS, TYPE II	\$ 129.00	50%
3KC43119AA	SLOT BLANK, 0.5RU, 2 SLOTS, TYPE II	\$ 35.00	50%
3KC43125AAAA	ESWL 1830 VWM TLU MANAGER RTU	\$ 250.00	50%
3KC43126AAAA	ESWL 1830 VWM MANAGEMENT SERVER RTU	\$ 500,000.00	50%
3KC43128AA	1830 VWM DC2 OCML DC BUNDLE	\$ 10,400.00	50%
3KC43129AA	1830 VWM DC2 OCML AC BUNDLE	\$ 10,200.00	50%
3KC43139BA	POD 8CH B VARIANT, LM, CH(48..41)	\$ 4,430.00	50%
3KC43140BA	SFD 8CH B VARIANT, LM, CH(48..41)	\$ 4,520.00	50%
3KC43143AA	1830VWM POD-8 STRAND MOUNTING BRACKET	\$ 257.00	50%
3KC48910AA	8EC2E - EQUIPMENT CONTROLLER SECURED	\$ 2,512.00	50%
3KC48936AA	PSS8-C SHELF KIT - PSS8CKIT	\$ 8,923.00	50%
3KC48940AA	PSS8-C SHELF - PSS8-C (PSS8CSHF, 8SP)	\$ 4,052.00	50%
3KC48943AA	AIR FILTER - PSS8-C	\$ 82.00	50%
3KC48946AA	PSS8-C INST KIT-19IN EIA	\$ 796.00	50%
3KC48947AA	8CVR-C - PSS8-C FRONT COVER	\$ 150.00	50%
3KC48963AA	CC EAL3 PSS-16II SHELF KIT	\$ 29,505.00	50%
3KC48980AA	16UP2 - USER PANEL - PSS16II	\$ 1,561.60	50%
3KC49039AA	ANTENNA KITS (10M) FOR GNSS SFP MODULE	\$ 5,490.00	50%
3KC49050AB	16IIKIT-PSS16II SHELF KIT (1XSHELF 1XFAN	\$ 15,680.00	50%
3KC49050AC	PSS16II AC/DC SHELFKIT (AC/DC SHELF 16FA	\$ 11,975.00	50%
3KC49050AD	PSS16II AC/DC SHLFKIT LP W/16FAN2C 16UP2	\$ 12,160.00	50%
3KC49160AB	12P120 10G, 12 PROG PORTS, 2 RTUS	\$ 16,640.00	50%
3KC49161AB	12P120 10G,12 PROG PORTS,6 RTUS	\$ 23,984.00	50%
3KC49753AAAA	PRE-STAGING 1830PSS-8 STANDARD	\$ 2,302.00	50%
3KC49753ABAA	PRE-STAGING 1830PSS-8 EXTRA TEST	\$ 555.00	50%
3KC49753ACAA	PRE-STAGING 1830PSS-8 EXTRA TEMP	\$ 1,386.00	50%
3KC49753ADAA	PRE-STAGING 1830PSS-8 EXTRA TIME	\$ 6,182.00	50%
3KC49763AAAA	PRE-STAGING 1830PSS-16II STANDARD	\$ 2,516.00	50%
3KC49763ABAA	PRE-STAGING 1830PSS-16II EXTRA TEST	\$ 2,267.00	50%
3KC49763ACAA	PRE-STAGING 1830PSS-16II EXTRA TEMP	\$ 3,400.00	50%
3KC49763ADAA	PRE-STAGING 1830PSS-16II EXTRA TIME	\$ 2,267.00	50%

3KC50013AB	16INSTET - PSS16II INST KIT-ETSI	\$ 797.00	50%
3KC50023AA	CA-AC POWER SUPPLY CABLE_CHINA 16A(5M)	\$ 783.00	50%
3KC50023AC	CA-AC PWR SPLY CA-CONTINENTAL EUROPE 16A	\$ 887.00	50%
3KC50023AD	CA-AC POWER SUPPLY CABLE_UK/IRELAND 16A	\$ 783.00	50%
3KC50133AA	AC/DC SHLF SET SNGL(INC 1XSHF-SNGL,2XRCT	\$ 6,260.00	50%
3KC50134AA	AC/DC SHLF SET DUPLEX(INC 1XSHF-DPLX,4XR	\$ 13,301.00	50%
3KC50136AA	AC/DC SHF INST KIT-ETSI, SINGLE	\$ 265.00	50%
3KC50137AA	AC/DC SHF INST KIT-ETSI, DUPLEX	\$ 327.00	50%
3KC50257AA	CC EAL3 PSS-8 SHELF KIT (WITH 2X8EC2E)	\$ 12,754.00	50%
3KC50547AA	PSS-24X ETSI/ANSI CABLE INSTALLATION KIT	\$ 2,323.00	50%
3KC50611AA	PSS-24X ANSI RACK INSTALLATION KIT	\$ 2,505.00	50%
3KC50674AA	PSS-24X ETSI MIDDLE COMPLETE AIR BAFFLE	\$ 474.00	50%
3KC50675AA	PSS-24X ETSI LOWER COMPLETE AIR BAFFLE	\$ 816.00	50%
3KC50707AA	PSS-24X SUBRACK BLANK ETSI	\$ 334.00	50%
3KC59925AA	4UC400 - 4X100G UPLINK	\$ 180,000.00	50%
3KC60346AA	2UC400 - 2 CARRIER UPLINK (UNRESTRICTED)	\$ 570,000.00	50%
3KC60371AAAA	PRE-STAGING 1830PSS-24X STANDARD	\$ 2,515.00	50%
3KC60372AAAA	PRE-STAGING 1830PSS-24X EXTRA TEST	\$ 2,267.00	50%
3KC60373AAAA	PRE-STAGING 1830PSS-24X EXTRA TEMP	\$ 3,400.00	50%
3KC60374AAAA	PRE-STAGING 1830PSS-24X EXTRA TIME	\$ 2,267.00	50%
3KC60375AA	2AC100H CFP2 ANALOG COH LH 100G	\$ 47,905.00	50%
3KC60389AA	4UC400 - 4X100G UPLINK N-E	\$ 68,618.00	50%
3KC60390AA	CCC - CENTRAL CLOCK AND CONTROLLER N-E	\$ 6,303.00	50%
3KC60391AA	30AN300 - 30X10G SFP CLIENT CARD N-E	\$ 26,105.00	50%
3KC60522AA	2UC400E - 2 CARRIER UPLINK HP ENCRYPTED	\$ 162,121.00	50%
3KC68210AC	HIGH PERFORMANCE SMS WITH 2 PSU	\$ 206,635.00	50%
3KC68210AD	SECURITY MGMT SERVER NETHSM WITH 2 PSU	\$ 206,635.00	50%
3KC68210AE	HIGH PERFORMANCE SMS REV AE WITH 2 PSU	\$ 206,635.00	50%
3KC68212AAAA	ESWL SMS ENCRYPTED LAMBDA 10G RTU	\$ 25,822.00	50%
3KC68225AA	10 SMS SMARTCARDS V1	\$ 5,831.00	50%
3KC68231AAAA	ESWL SMS ENCRYPTED LAMBDA 100G RTU	\$ 206,756.00	50%
3KC68233AAAA	ESWP SECURE MGMT SERVER R2.1.1 APPLIC	\$ 77,466.00	50%
3KC68236AAAA	ESWP SECURE MGMT SERVER R2.0.1 APPLIC	\$ 77,466.00	50%
3KC68241AAAA	ESWP SECURE MGMT SERVER R3.0 APPLIC	\$ 77,466.00	50%
3KC68247AAAA	ESWL SMS ENCRYPTED AE LAMBDA 10G RTU	\$ 25,822.00	50%
3KC68248AAAA	ESWL SMS ENCRYPTED AE LAMBDA 100G RTU	\$ 206,576.00	50%
3KC68251AAAA	ESWL SMS ENCRYPTED MW LINK RTU	\$ 15,360.00	50%
3KC68254AAAA	ESWP SECURE MGMT SERVER R2.1.1 ISO	\$ 77,466.00	50%
3KC68259AAAA	ESWP SECURE MGMT SERVER R2.2.1 APPLIC	\$ 77,466.00	50%
3KC68264AAAA	ESWP SMS VIR MACHINE INSTALLER V2.0.1	\$ 1.00	50%
3KC68266AAAA	ESWP MIGRATION TOOL V3.0.0 FOR 1830 SMS	\$ 1.00	50%
3KC68267AAAA	ESWP APPLNCE INST TOOL V1.1.0 - 1830 SMS	\$ 1.00	50%
3KC68270AAAA	ESWP SECURE MGMT SERVER R3.0.1 APPLIC	\$ 67,685.00	50%
3KC68280AAAA	ESWP MIGRATION TOOL V3.0.1 FOR 1830 SMS	\$ 1.00	50%
3KC68308AA	1830PSD RACK MOUNT BRACKET KIT 19 INCHES	\$ 188.00	50%
3KC68309AA	1830PSD RACK MOUNT BRACKET KIT ETSI	\$ 211.00	50%
3KC68310AA	1830PSD RACK MOUNT BRACKET KIT 23INCHES	\$ 211.00	50%
3KC68311AA	1830PSD WALL MOUNT BRACKET KIT	\$ 68.00	50%
3KC68315AAAA	ESWP 1830PSD 10G SOFTWARE R1.0 OLCS	\$ 103.00	50%
3KC68320AAAA	ESWL 1830PSD 10G OTN LICENSE	\$ 399.00	50%
3KC68323AAAA	ESWP 1830 PSD 10G SOFTWARE R1.1 OLCS	\$ 103.00	50%
3KC68325AAAA	ESWL 1830PSD 10G ETHERNET LICENSE	\$ 399.00	50%
3KC68329AAAA	ESWP 1830 PSD 10G SOFTWARE R1.1.1 OLCS	\$ 115.00	50%
3KC68332AAAA	ESWP 1830 PSD 10G SOFTWARE R1.1.2 OLCS	\$ 115.00	50%
3KC68340AAAA	ESWP 1830 PSD 10G SOFTWARE R1.2 OLCS	\$ 115.00	50%

3KC68345AA	1830 PHOTONIC SERVICE DEMARCATION PSD-DC	\$ 6,780.00	50%
3KC68348AAAA	ESWP 1830 PSD 10G SOFTWARE R2.0 OLCs	\$ 115.20	50%
3KC69412AAAA	SWP 1830PSI-2T R1.0.0	\$ 115.00	50%
3KC69418AA	PSI-2T 2-POST RACK 23IN EIA INSTALL KIT	\$ 320.00	50%
3KC69418AB	PSI-2T 2-POST RACK 19IN EIA INSTALL KIT	\$ 326.00	50%
3KC69423AAAA	SWP 1830PSI-2T R2.0.0	\$ 115.00	50%
3KC69446AAAA	ESWP 1830PSI-2T R4.0	\$ 115.00	50%
3KC69451AAAA	SWP 1830PSI-2T R2.0.2	\$ 115.00	50%
3KC69455AAAA	SWP 1830 PSI-2T R4.0.3	\$ 115.00	50%
3KC69624AAAA	SWP 1830PSS-8/32 R9.1.0 ECE	\$ 115.00	50%
3KC69626AAAA	SWPL 1830PSS-8/32 R9.1.0 ECE	\$ 77.00	50%
3KC69629AAAA	SWPL 1830PSS R9.1 PSS16II/16/32/24XN-E	\$ 77.00	50%
3KC69633AAAA	SWP 1830PSS-EPT R9.1.0 DVD	\$ 115.00	50%
3KC69659AA	S2AD200R-1X100G/200G OT RGNL UNRESTRICTD	\$ 170,346.00	50%
3KC69768AA	VWM DCM TLU/PMU DEBUG CABLE, 3M	\$ 84.00	50%
3KC69769AA	1830 VWM DCM TLU/PMU AC POWER CABLE, 3M	\$ 210.00	50%
3KC69770AA	1830 VWM DCM TLU/PMU DC POWER CABLE, 5M	\$ 231.00	50%
3KC69791AA	1830 VWM PMUD21A 21CH DWDM PMU, BAND-A	\$ 22,710.00	50%
3KC69791AB	1830 VWM PMUD21B 21CH DWDM PMU, BAND-B	\$ 22,710.00	50%
3KC69791AC	1830 VWM PMUD21C 21CH DWDM PMU, BAND-C	\$ 22,710.00	50%
3KC69791AD	1830 VWM PMUD21D 21CH DWDM PMU, BAND-D	\$ 22,710.00	50%
3KC69794AA	1830 VWM BMU-P PLUGGABLE FILTER	\$ 7,000.00	50%
3KC69795AA	1830 VWM BMU-P CHASSIS	\$ 1,100.00	50%
3KC69806AAAA	SWP 1830PSS-8/16II/16/32/24x R9.1.1	\$ 115.00	50%
3KC69808AAAA	SWPL 1830PSS-8/16II/16/32 R9.1.1	\$ 77.00	50%
3KC69822AA	D5X500Q 500G MUX/UL, 5CL, RESTRICTED	\$ 61,252.00	50%
3KC69939AA	ASWG-L AMP SWITCHED GAIN EDFA L-BAND	\$ 113,280.00	50%
3KC70058AAAA	ESWL-S4X400L100GB PORT 100G MODE MONTH	\$ 3,660.00	50%
3KC70059AAAA	ESWL-S4X400L 100GB PORT 200G MODE MONTH	\$ 2,074.00	50%
3KC70060AAAA	ESWL-S4X400L 100GB PORT 300G MODE MONTH	\$ 1,464.00	50%
3KC70061AAAA	ESWL-S4X400L 100GB PORT 400G MODE MONTH	\$ 1,318.00	50%
3KC70062AAAA	ESWL-S4X400L 100GB PORT 500G MODE MONTH	\$ 1,139.00	50%
3KC70073AAAA	SWP 1830PSS-CVT R11.0.0	\$ 15,360.00	50%
3KC70076AAAA	SWP 1830PSS-APA R11.0.0	\$ 15,360.00	50%
3KC70079AAAA	SWP 1830PSS-EPT R11.0.0 DVD	\$ 115.00	50%
3KC70082AA	S2AD200H -1X100G/200G OT HP RTU RESTRICT	\$ 16,039.00	50%
3KC70101AAAA	ESWL - RTU UNKEYED SERVICES LIFE	\$ 7,540.00	50%
3KC70102AAAA	ESWL-S4X400H UNIDIR REGEN MODE MONTH	\$ 1,403.00	50%
3KC70103AAAA	ESWL-S4X400H UNIDIR REGEN MODE LIFE	\$ 14,030.00	50%
3KC70104AAAA	ESWL-DD2M4 UNIDIR REGEN MODE LIFE	\$ 3,770.00	50%
3KC70117AA	EIA FLEX SHELF KIT SLIDING LATCH	\$ 737.00	50%
3KC70129AAAA	ESWL - RTU WITH PROTECTION MONTH	\$ 145.00	50%
3KC70130AAAA	ESWL-DFM6 400GB PORT 200G MODE MONTH	\$ 6,313.00	50%
3KC70131AAAA	ESWL-RTU WITH ENCRYPTION LIFE	\$ 18,134.00	50%
3KC70161AA	MSH8-FSM COVER KIT WITH SLIDING LATCHES	\$ 316.00	50%
3KC70162AA	1830VWM TYPE 2 FAN UNIT	\$ 1,200.00	50%
3KC70163AB	IRDM32-32D ROADM SWG C-BAND GLS	\$ 131,939.00	50%
3KC70175AA	EILA EQUILIZED IN-LINE AMPLIFIER	\$ 62,209.00	50%
3KC70254AA	1830VWM 1RU TYPE 3 19IN RACK MOUNT BRKT	\$ 55.00	50%
3KC70254AB	1830VWM 1RU TYPE 3 21IN ETSI RK MT BRKT	\$ 55.00	50%
3KC70293AA	SHELF 21IN, 0.5RU, 4 SLOTS, TYPE II	\$ 129.00	50%
3KC70294AA	SHELF 23 IN, 0.5RU, 4 SLOTS, TYPE II	\$ 129.00	50%
3KC70342AB	IRDM32L-32D ROADM SWG L-BAND GLS	\$ 154,143.00	50%
3KC70525AA	EILAL EQUILIZED IN-LINE AMPLIFIER L-BAND	\$ 88,289.00	50%
3KC70677AA	S4X400H 4X100G OT RESTRICTED	\$ 46,735.00	50%

3KC70767AA	1830VWM FIBER JUMPER, SIMPLEX BI (420MM)	\$ 45.00	50%
3KC70922AAAA	ESWL-D5X500Q 100GB PORT 2X50G MODE MONTH	\$ 2,864.00	50%
3KC70923AAAA	ESWL-D5X500Q 100GB PORT 100G MODE MONTH	\$ 3,819.00	50%
3KC70924AAAA	ESWL-D5X500Q 100GB PORT 200G MODE MONTH	\$ 2,164.00	50%
3KC70925AAAA	ESWL-D5X500Q 100GB PORT 2X250G MODE MNTH	\$ 1,528.00	50%
3KC70926AAAA	ESWL-D5X500Q 100GB PORT 100G MODE LIFE	\$ 38,190.00	50%
3KC70927AAAA	ESWL-D5X500Q 100GB PORT 200G MODE LIFE	\$ 21,640.00	50%
3KC70928AAAA	ESWL-D5X500Q 100GB PORT 2X250G MODE LIFE	\$ 15,280.00	50%
3KC70929AAAA	ESWL-D5X500Q 100GB PORT 2X50G MODE LIFE	\$ 28,640.00	50%
3KC70935AAAA	ESWL-RTU METRO S13X100E LIFE	\$ 34,816.00	50%
3KC70938AAAA	ESWL-S5AD400H UNIDIR REGEN MODE MONTH	\$ 2,901.00	50%
3KC70939AAAA	ESWL-S5AD400H UNIDIR REGEN MODE LIFE	\$ 1,451.00	50%
3KC70940AAAA	ESWL-S4X400L UNIDIR REGEN MODE MONTH	\$ 1,100.00	50%
3KC70941AAAA	ESWL-S4X400L UNIDIR REGEN MODE LIFE	\$ 11,000.00	50%
3KC70962AAAA	ESWL-S4X400H 100GB PORT 100G MODE MONTH	\$ 3,183.00	50%
3KC70963AAAA	ESWL-S4X400H 100GB PORT 200G MODE MONTH	\$ 1,804.00	50%
3KC70964AAAA	ESWL-S4X400H 100GB PORT 300G MODE MONTH	\$ 1,273.00	50%
3KC70965AAAA	ESWL-S4X400H 100GB PORT 400G MODE MONTH	\$ 1,146.00	50%
3KC70966AAAA	ESWL-S4X400H 100GB PORT 500G MODE MONTH	\$ 990.00	50%
3KC70969AAAA	ESWL-S4X400H 100GB PORT 100G MODE LIFE	\$ 31,830.00	50%
3KC70970AAAA	ESWL-S4X400H 100GB PORT 200G MODE LIFE	\$ 18,040.00	50%
3KC70971AAAA	ESWL-S4X400H 100GB PORT 300G MODE LIFE	\$ 12,730.00	50%
3KC70972AAAA	ESWL-S4X400H 100GB PORT 400G MODE LIFE	\$ 11,460.00	50%
3KC70973AAAA	ESWL-S4X400H 100GB PORT 500G MODE LIFE	\$ 9,900.00	50%
3KC70979AAAA	ESWL-S4X400L100GB PORT 100G MODE LIFE	\$ 36,600.00	50%
3KC70980AAAA	ESWL-S4X400L 100GB PORT 200G MODE LIFE	\$ 20,740.00	50%
3KC70981AAAA	ESWL-S4X400L 100GB PORT 300G MODE LIFE	\$ 14,640.00	50%
3KC70982AAAA	ESWL-S4X400L 100GB PORT 400G MODE LIFE	\$ 13,180.00	50%
3KC70983AAAA	ESWL-S4X400L 100GB PORT 500G MODE LIFE	\$ 11,390.00	50%
3KC70984AAAA	ESWL-RTU OLPS 50G S5AD400 MONTHLY	\$ 1,306.00	50%
3KC70985AAAA	ESWL-S5AD400H 100GB PORT 100G MODE MONTH	\$ 2,901.00	50%
3KC70986AAAA	ESWL-S5AD400H 100GB PORT 200G MODE MONTH	\$ 4,352.00	50%
3KC70987AAAA	ESWL-S5AD400H 100GB PORT 300G MODE MONTH	\$ 5,803.00	50%
3KC70988AAAA	ESWL-S5AD400H 100GB PORT 400G MODE MONTH	\$ 6,528.00	50%
3KC70989AAAA	ESWL-S5AD400H 400GB PORT 400G MODE MONTH	\$ 31,334.00	50%
3KC70990AAAA	ESWL-S5AD400H 100GB PORT 100G MODE LIFE	\$ 69,632.00	50%
3KC70991AAAA	ESWL-S5AD400H 100GB PORT 200G MODE LIFE	\$ 104,448.00	50%
3KC70992AAAA	ESWL-S5AD400H 100GB PORT 300G MODE LIFE	\$ 139,264.00	50%
3KC70993AAAA	ESWL-S5AD400H 100GB PORT 400G MODE LIFE	\$ 156,672.00	50%
3KC70994AAAA	ESWL-S5AD400H 400GB PORT 400G MODE LIFE	\$ 4,352.00	50%
3KC71005AAAA	ESWL-S4X400L SPARE	\$ 23,180.00	50%
3KC71007AAAA	ESWL-D5X500 SPARE	\$ 99,844.00	50%
3KC71009AAAA	ESWL-2UC400 SPARE	\$ 107,346.00	50%
3KC71010AAAA	ESWL-S4X400 SPARE	\$ 18,710.00	50%
3KC71011AAAA	ESWL-S5AD400 SPARE	\$ 35,401.00	50%
3KC71142AAAA	SWPL 1830PSS-8/16II/16/32 R13.0.0	\$ 77.00	50%
3KC71145AAAA	SWP KIT 1830PSS SWDM R13.0.0	\$ 115.00	50%
3KC71264AAAA	SWPL 1830PSS-8/16II/16/32 R13.0.4	\$ 77.00	50%
3KC71270AA	S6AD600E ENCRYPTION UNRESTRICTED	\$ 378,000.00	50%
3KC71272AAAA	SWP KIT 1830PSS SWDM R13.0.4	\$ 115.00	50%
3KC71294AA	MEC2L CONTROLLER KIT - 1830 R13.0	\$ 3,277.00	50%
3KC71294AB	MEC2L CONTROLLER KIT - 1830 R13.0.4	\$ 3,277.00	50%
3KC71294AC	MEC2L CONTROLLER KIT - 1830 R13.1	\$ 3,277.00	50%
3KC71441AAAA	SWPL 1830PSS-8/16II/16/32 R13.1.0	\$ 77.00	50%
3KC71446AAAA	SWP KIT 1830PSS SWDM R13.1.0	\$ 115.00	50%

3KC73669AAAA	ESWL NFM-T 19 STANDARD BASE	\$ 77,000.00	50%
3KC76608AAAA	NSP 17: NRC-T STANDARD BASE	\$ 371,035.00	50%
3KC76612AAAA	NSP 17: NSD-NRC STANDARD TRANSPORT LP	\$ 110.00	50%
3KC76613AAAA	NSP 17: NSD-NRC HIGH AVAIL TRANSPORT LP	\$ 22.00	50%
3KC76616AAAA	NRC-T 18 STANDARD BASE	\$ 399,980.00	50%
3KC76625AAAA	ESWL NRC-T 19 STANDARD BASE	\$ 399,980.00	50%
3KC79654AAAA	ESWP WS SE INFRASTRUCTURE SOFTWARE	\$ 14,400.00	50%
3KC79655AAAA	ESWL WS SE SVC UTIL RPT 1G VC	\$ 34.00	50%
3KC79656AAAA	ESWL WS SE SVC UTIL RPT 10G VC	\$ 114.00	50%
3KC79657AAAA	ESWL WS SE SVC UTIL RPT 100G VC	\$ 342.00	50%
3KC79660AAAA	ESWL WS SE SVC AVAIL RPT 1G VC	\$ 34.00	50%
3KC79661AAAA	ESWL WS SE SVC AVAIL RPT 10G VC	\$ 114.00	50%
3KC79662AAAA	ESWL WS SE SVC AVAIL RPT 100G VC	\$ 342.00	50%
3KC79665AAAA	ESWL WS SE SVC LATENCY RPT 1G VC	\$ 23.00	50%
3KC79666AAAA	ESWL WS SE SVC LATENCY RPT 10G VC	\$ 76.00	50%
3KC79667AAAA	ESWL WS SE SVC LATENCY RPT 100G VC	\$ 228.00	50%
3KC79668AAAA	ESWL WS SE SVC LATENCY RPT 10G L1 CRYPT	\$ 152.00	50%
3KC79669AAAA	ESWL WS SE SVC LATENCY RPT 100G L1 CRYPT	\$ 456.00	50%
3KC79670AAAA	ESWL WS SE SVC DASHBOARD 1G VC	\$ 23.00	50%
3KC79671AAAA	ESWL WS SE SVC DASHBOARD 10G VC	\$ 76.00	50%
3KC79672AAAA	ESWL WS SE SVC DASHBOARD 100G VC	\$ 228.00	50%
3KC79747AAAA	ESWL NETHSM ANNUAL SRS	\$ 17,974.00	50%
3KC79748AAAA	ESWL WAVESUITE H AND A INFRA (NAR ONLY)	\$ 800,000.00	50%
3KC79749AAAA	ESWL WAVESUITE H AND A SRS (NAR ONLY)	\$ 800,000.00	50%
3KC81770AA	PSI-M SHELF KIT (2XMEC2 5XFANM 3XBLANK)	\$ 38,400.00	50%
3KC81775AA	MEC2 - PSI-M EQUIPMENT CONTROLLER	\$ 2,092.00	50%
3KC81801AA	DFC12E ENCRYPTION SUBSEA UNRESTRICTED	\$ 1,168,640.00	50%
3KC81807AAAA	SWP 1830PSI-M R3.0.0	\$ 115.00	50%
3KC81885AAAA	SWP 1830PSI-M R3.1.0	\$ 115.00	50%
3KC81888AAAA	SWPL-1830PSI-M R3.1.0	\$ 77.00	50%
3KC81890AA	DFC12 TERRESTRIAL UNRESTRICTED	\$ 826,752.00	50%
3KC81894AAAA	SWP 1830PSI-M R3.2.0	\$ 115.00	50%
3KC81897AAAA	SWPL-1830PSI-M R3.2.0	\$ 77.00	50%
3KC82002AA	KIT - DA2C4 PLUGGABLE KIT	\$ 71,004.00	50%
3KC82040AAAA	SWP 1830PSI-M R4.0	\$ 115.00	50%
3KC82042AAAA	SWPL 1830PSI-M R4.0	\$ 77.00	50%
3KC82073AA	DFM6E TERRESTRIAL ENCRYPTION UNRESTRICTED	\$ 204,903.00	50%
3KC82081AA	DFC12E ENCRYPTION UNRESTRICTED	\$ 202,192.00	50%
3KC82125AAAA	SWP 1830PSI-M R4.0.4	\$ 115.00	50%
3KC82128AAAA	SWPL 1830PSIM R4.0.4	\$ 77.00	50%
3KC82154AA	DFC12 SUBSEA UNRESTRICTED	\$ 202,043.00	50%
3KC82164AAAA	SWP 1830PSI-M R5.0	\$ 115.00	50%
3KC82190AAAA	SWP 1830 PSI-M R4.0.5	\$ 115.00	50%
3KC82219AAAA	ESWP 1830PSI-M R5.0.4	\$ 115.00	50%
3KC82231AA	SFM6E ENCRYPTION UNRESTRICTED	\$ 375,000.00	50%
3KC86714AA	WAVELITE METRO 200 AND FAN	\$ 48,337.00	50%
3KC86714BA	WAVELITE METRO 200 NE AND F2B FAN	\$ 46,393.60	50%
3KC86715AA	WAVELITE METRO 200 WITH OPS AND FAN	\$ 57,343.00	50%
3KC86715BA	WAVELITE METRO 200 NE W/OPS AND F2B FAN	\$ 50,176.00	50%
3KC86716AA	WAVELITE ACCESS 200 AND FAN	\$ 22,737.00	50%
3KC86716BA	WAVELITE ACCESS 200 NE AND F2B FAN	\$ 32,750.00	50%
3KC86717AA	WAVELITE METRO 20 AND FAN	\$ 16,050.00	50%
3KC86718AA	WAVELITE MUX 16 WITH OPS AND FAN	\$ 61,744.00	50%
3KC86719AA	WAVELITE MUX 16 AND FAN	\$ 53,168.00	50%
3KC86721AA	RACK MOUNTING KIT-ETSI 21 IN	\$ 44.00	50%

3KC86724AA	WAVELITE DC PSU 400W	\$ 634.00	50%
3KC86725AA	WAVELITE AC PSU 400W	\$ 2,659.00	50%
3KC86735AA	FAN UNIT WAVELITE METRO 200/ACCESS 200	\$ 798.00	50%
3KC86746AAAA	ESWL-WAVELITE METRO 20	\$ 783.00	50%
3KC86756AAAA	ESWL WL METRO 20 CAPACITY INCR TO 20G	\$ 2,609.00	50%
3KC86757AAAA	ESWL WL METRO 20 SNCP PROT ACTIVATION	\$ 2,609.00	50%
3KC86781AA	BLANK FOR PSU 400W WL METRO/ACCESS 200	\$ 72.00	50%
3KC86797AA	AC POWER CABLE-INDIA/S. AFRICA TYPE D 3M	\$ 41.00	50%
3KC86800AAAA	ESWP WL METRO/ACCESS 200 R1.2 APPL.	\$ 115.00	50%
3KC90064ABAA	SWP-1830 ONE A R.01.01.01	\$ 112.00	50%
3KC90067ABAA	SWP-1830 ONE H R.01.01.01	\$ 112.00	50%
3KC90075AA	EPS SHELF	\$ 2,323.19	50%
3KC90076AA	E1 EPS BOARD 75 OHM	\$ 1,068.34	50%
3KC90076AB	E1 EPS BOARD 120 OHM	\$ 1,746.89	50%
3KC90077AA	E1 EPS DUMMY PLATE	\$ 86.50	50%
3KC90082AAAA	SWP-1830 ONE A R.01.02.00	\$ 112.00	50%
3KC90082ABAA	SWP-1830 ONE A R.01.02.01	\$ 112.00	50%
3KC90085AAAA	SWP-1830 ONE H R.01.02.00	\$ 112.00	50%
3KC90085ABAA	SWP-1830 ONE H R.01.02.01	\$ 112.00	50%
3KC90088AA	I/O OTN SWITCH GE/10GE/STM-n/OTU1 + OTU2	\$ 33,503.00	50%
3KC90090AA	I/O OTN SWITCH 1/10GE/STM-n/OTU1-4QSFP28	\$ 43,332.00	50%
3KC90093AAAA	SWP-1830 ONE A R.02.00.00	\$ 101.11	50%
3KC90096AAAA	SWP-1830 ONE H R.02.00.00	\$ 101.11	50%
3KC90107AA	BLANK FOR 2 PSF-MP CARDS	\$ 55.05	50%
3KC90108AA	BLANK FOR FAN TRAY	\$ 188.73	50%
3KC90126AA	SINGLE CHAN. TUNABLE FILTER, ADD VOA	\$ 19,084.32	50%
3KC90129AA	DWDM MUX/DEMUX 16CH	\$ 19,098.92	50%
3KC90130AA	DWDM OADM CH25 - CH26 UNIDIR	\$ 6,139.38	50%
3KC90130AB	DWDM OADM CH27 - CH28 UNIDIR	\$ 6,139.38	50%
3KC90130AC	DWDM OADM CH29 - CH30 UNIDIR	\$ 6,139.38	50%
3KC90130AD	DWDM OADM CH31 - CH32 UNIDIR	\$ 6,139.38	50%
3KC90130AE	DWDM OADM CH33 - CH34 UNIDIR	\$ 6,139.38	50%
3KC90130AF	DWDM OADM CH35 - CH36 UNIDIR	\$ 6,139.38	50%
3KC90130AG	DWDM OADM CH37 - CH38 UNIDIR	\$ 6,139.38	50%
3KC90130AH	DWDM OADM CH39 - CH40 UNIDIR	\$ 6,139.38	50%
3KC90131AA	DWDM OADM CH25-C2H6-CH27-CH28 UNIDIR	\$ 8,574.91	50%
3KC90131AB	DWDM OADM CH29-CH30-CH31-CH32 UNIDIR	\$ 8,574.91	50%
3KC90131AC	DWDM OADM CH33-CH34-CH35-CH36 UNIDIR	\$ 8,574.91	50%
3KC90131AD	DWDM OADM CH37-CH38-CH39-CH40 UNIDIR	\$ 8,574.91	50%
3KC90138AAAA	SWP-1830 ONE M R.02.02.00	\$ 97.38	50%
3KC90142AAAA	SWP-1830 ONE A R.02.01.00	\$ 112.00	50%
3KC90142ABAA	SWP-1830 ONE A R.02.01.01	\$ 112.00	50%
3KC90142ACAA	SWP-1830 ONE A R.02.01.02	\$ 105.37	50%
3KC90145AAAA	SWP-1830 ONE H R.02.01.00	\$ 112.00	50%
3KC90145ABAA	SWP-1830 ONE H R.02.01.01	\$ 112.00	50%
3KC90145ACAA	SWP-1830 ONE H R.02.01.02	\$ 105.37	50%
3KC90149AA	M2PCS1X2 PLUG 2 x 1:2 COUPL/SPLITTER	\$ 5,309.19	50%
3KC90235AA	PSI-L 8-SLOT CHASSIS	\$ 10,880.00	50%
3KC90376AA	PSI-L 8L ETSI RACK INSTALLATION KIT	\$ 399.00	50%
3KC90774AB	1830 TPS-24 PWR CABLE W/GOLD PLATING	\$ 180.00	50%
3KC90818AA	CA-CS FIBER JUMPER, 420MM	\$ 115.00	50%
3KC90818AB	CA-CS FIBER JUMPER, 1.4M	\$ 115.00	50%
3KC90818AC	CA-CS FIBER JUMPER, 3.5M	\$ 125.00	50%
3KC91738AA	MEC2L CONTROLLER KIT - OLS R2.0	\$ 3,277.00	50%
3KC91738AB	MEC2L CONTROLLER KIT - OLS R2.1	\$ 3,277.00	50%

3TD00096AA	1UX100 - 1 X 100G COHERENT UPLINK	\$ 45,000.00	50%
3TD09046AA	XPSF8 - POWER SUPPLY FILTER PSS-8X ANSI	\$ 5,201.00	50%
3TD10006AA	ETSI SHELF KIT (MECHA) PSS-8X	\$ 566.00	50%
3TD10007AA	ETSI/ANSI KIT (CABLES)	\$ 840.00	50%
3TD10008AA	AIR INLET ETSI PSS-8X	\$ 191.00	50%
3TD10099AA	ETSI/ANSI POWER CABLE KIT	\$ 1,988.00	50%
3TD10128AA	ANSI RACK MECHANICAL KIT	\$ 1,164.00	50%
3TD10147AA	ETSI SHELF KIT (MECHA) PSS-12X	\$ 580.00	50%
3TD10180AA	ETSI RACK TOP BAFFLE	\$ 617.00	50%
3TD10200AA	INSTALLATION KIT 1 (PDU)	\$ 120.00	50%
3TD10201AA	INSTALLATION KIT 2 (TRU)	\$ 68.00	50%
8DG03545AA	PSS4 DC POWER CABLE TI	\$ 331.00	50%
8DG03546AA	PSS8 DC POWER CABLE TI	\$ 358.00	50%
8DG03550AA	ONE RACK LOCK FIBERS KIT	\$ 98.86	50%
8DG07796AA	MA-COMplete SHELF	\$ 87.00	50%
8DG07796AAA	MECHANICAL ADAPTER GUIDE	\$ 87.00	50%
8DG08351AA	CA-MATRIX CABLE (NAR), 5M, SHIELDED CAT5	\$ 41.00	50%
8DG08352AA	CA-MATRIX CABLE (NAR), 10M, SHIELDED CAT	\$ 64.00	50%
8DG08353AA	CA-MATRIX CABL 20M, SHLD CAT5E, PVC ANSI	\$ 105.00	50%
8DG08354AA	CA-MATRIX CABL 30M, SHLD CAT5E, PVC ANSI	\$ 216.00	50%
8DG08355AA	CA-MATRIX CABL 40M, SHLD CAT5E, PVC ANSI	\$ 256.00	50%
8DG08356AA	CA-MATRIX CABL 50M, SHLD CAT5E, PVC (ANS	\$ 350.00	50%
8DG08357AA	CA-MATRIX CABL 60M, SHID CAT5E, PVC (ANS	\$ 89.00	50%
8DG08359AA	CA-INVENTORY CABLE (2.3M), SHIELDED CAT5	\$ 88.00	50%
8DG08360AA	CA-INVENTORY CABLE (5.5M), SHIELDED CAT5	\$ 132.00	50%
8DG08361AA	CA-INVENTORY CABLE (7M), SHIELDED CAT5E,	\$ 160.00	50%
8DG08361AB	CA-INVENTORY CABLE (NAR)(11M), SHIELDE	\$ 281.00	50%
8DG08361AE	CA-INVENTORY CABLE (NAR) (30M), SHIELDED	\$ 863.00	50%
8DG08361AF	CA-INVENTORY CABLE (NAR) (20M), SHIELDED	\$ 891.00	50%
8DG08368AA	CA-MATRIX CABLE (NAR), 2M, SHIELDED CAT5	\$ 35.00	50%
8DG08381AA	SFP / XFP EXTRACTOR	\$ 39.00	50%
8DG09825AA	RACK COVER 1U	\$ 128.00	50%
8DG09825AAA	RACK COVER 1U	\$ 128.00	50%
8DG09826AA	RACK COVER 2U	\$ 135.00	50%
8DG09826AAA	RACK COVER 2U	\$ 135.00	50%
8DG59240AAXX	USER INTERFACE PANEL	\$ 1,200.00	50%
8DG59240AB	USER INTERFACE PANL PSS32 FIPS CERTIFIED	\$ 1,545.00	50%
8DG59240BA	USER INTERFACE PANEL V2	\$ 1,436.00	50%
8DG59242BAXX	DC POWER FILTER (70A) W/ V MONITORING	\$ 4,064.00	50%
8DG59242BBXX	DC POWER FILTER (50A) W/ V MONITORING	\$ 4,064.00	50%
8DG59242BCXX	DC POWER FILTER (30A) W/ V MONITORING	\$ 4,064.00	50%
8DG59242BDXX	DC POWER FILTER (20A) W/ V MONITORING	\$ 4,064.00	50%
8DG59242BEXX	DC POWER FILTER (60A) W/ V MONITORING	\$ 4,064.00	50%
8DG59242DA	PFDC70 - DC PF 70A W/V MONITORING VER B2	\$ 1,688.00	50%
8DG59243ABXX	HIGH POWER PSS-32 FAN TRAY	\$ 3,133.00	50%
8DG59243BB	HIGH OUTPUT PSS-32 FAN TRAY	\$ 2,678.00	50%
8DG59243CB	HIGH OUTPUT PSS-32 FAN TRAY V2	\$ 2,498.00	50%
8DG59245BA	AHPHG - HPOWER HGAIN DWDM AMPLIFIER V2	\$ 17,408.00	50%
8DG59247AAXX	ENHANCED OPTICAL PROTECTION SWITCH PACK	\$ 11,610.00	50%
8DG59247AB	ENHANCED OPS PACK, NON-LATCHING	\$ 14,615.00	50%
8DG59247ABXX	ENHANCED OPS PACK, NON-LATCHING	\$ 14,615.00	50%
8DG59248AAXX	44 CHANNEL OPTICAL MUX/DEMUX	\$ 16,409.60	50%
8DG59320AAXX	AIR FILTER	\$ 210.00	50%
8DG59348AAXX	CO SHELF COVER - LARGE -(PSS-32)	\$ 432.00	50%
8DG59354AAXX	USER PANEL BLANK	\$ 47.00	50%

8DG59417AAXX	KIT-DCM SHELF KIT (19 INCH EIA)	\$ 513.00	50%
8DG59417AB	KIT-DCM SHELF KIT (ANSI/ETSI)	\$ 966.00	50%
8DG59417ABXX	KIT-DCM SHELF (ANSI/ETSI)	\$ 966.00	50%
8DG59418AAXX	FULL SLOT BLANK	\$ 121.60	50%
8DG59419AAXX	HALF SLOT BLANK	\$ 144.64	50%
8DG59420AAXX	EQUIPMENT CONTROLLER BLANK	\$ 99.84	50%
8DG59421AAXX	TIMING INTERFACE BLANK	\$ 60.00	50%
8DG59423AAXX	DCM - SMF 10KM	\$ 2,712.00	50%
8DG59424AAXX	DCM - SMF 20KM	\$ 3,042.00	50%
8DG59424AB	OEM-DCM - TWRS 20 KM	\$ 9,430.20	50%
8DG59424ABXX	DCM - TWRS 20 KM	\$ 9,430.20	50%
8DG59424AC	OEM-DCM - ELEAF 20 KM	\$ 5,642.00	50%
8DG59424ACXX	DCM - ELEAF 20 KM	\$ 5,642.00	50%
8DG59425AAXX	DCM - SMF 30KM	\$ 3,894.00	50%
8DG59426AAXX	DCM - SMF 40KM	\$ 4,417.00	50%
8DG59426AB	OEM-DCM - TWRS 40 KM	\$ 11,292.60	50%
8DG59426ABXX	DCM - TWRS 40 KM	\$ 11,292.60	50%
8DG59426AC	OEM-DCM - ELEAF 40 KM	\$ 7,686.00	50%
8DG59426ACXX	DCM - ELEAF 40 KM	\$ 7,686.00	50%
8DG59427AAXX	DCM - SMF 50KM	\$ 5,077.00	50%
8DG59428AAXX	DCM - SMF 60KM	\$ 5,772.00	50%
8DG59428AB	OEM-DCM - TWRS 60 KM	\$ 12,809.30	50%
8DG59428ABXX	DCM - TWRS 60 KM	\$ 12,809.30	50%
8DG59428AC	OEM-DCM - ELEAF 60 KM	\$ 9,561.00	50%
8DG59428ACXX	DCM - ELEAF 60 KM	\$ 9,561.00	50%
8DG59429AAXX	DCM - SMF 70KM	\$ 6,518.00	50%
8DG59430AAXX	DCM - SMF 80KM	\$ 6,167.00	50%
8DG59430AB	OEM-DCM - TWRS 80 KM	\$ 14,723.30	50%
8DG59430ABXX	DCM - TWRS 80 KM	\$ 14,723.30	50%
8DG59430AC	OEM-DCM - ELEAF 80 KM	\$ 11,206.00	50%
8DG59430ACXX	DCM - ELEAF 80 KM	\$ 11,206.00	50%
8DG59431AAXX	DCM - SMF 90KM	\$ 8,235.00	50%
8DG59432AAXX	DCM - SMF 100KM	\$ 8,775.00	50%
8DG59432AB	OEM-DCM - TWRS 100 KM	\$ 14,094.00	50%
8DG59432ABXX	DCM - TWRS 100 KM	\$ 14,094.00	50%
8DG59432AC	OEM-DCM - ELEAF 100 KM	\$ 12,732.00	50%
8DG59432ACXX	DCM - ELEAF 100 KM	\$ 12,732.00	50%
8DG59433AAXX	DCM - SMF 110KM	\$ 9,319.00	50%
8DG59434AAXX	DCM - SMF 120KM	\$ 9,897.00	50%
8DG59434AB	OEM-DCM - TWRS 120 KM	\$ 15,795.00	50%
8DG59434ABXX	DCM - TWRS 120 KM	\$ 15,795.00	50%
8DG59434AC	OEM-DCM - ELEAF 120 KM	\$ 14,602.00	50%
8DG59434ACXX	DCM - ELEAF 120 KM	\$ 14,602.00	50%
8DG59435AAXX	DCM - SMF 130KM	\$ 10,511.00	50%
8DG59436AAXX	DCM - SMF 140KM	\$ 11,163.00	50%
8DG59437AAXX	STATIC FILTER DWDM 5 CHANNEL (A	\$ 10,794.00	50%
8DG59437ABXX	STATIC FILTER DWDM 5 CHANNEL (B	\$ 10,794.00	50%
8DG59437ACXX	STATIC FILTER DWDM 5 CHANNEL (C	\$ 8,100.00	50%
8DG59437ADXX	STATIC FILTER DWDM 5 CHANNEL (D	\$ 10,794.00	50%
8DG59437AEXX	STATIC FILTER DWDM 5 CHANNEL (E	\$ 10,794.00	50%
8DG59437AFXX	STATIC FILTER DWDM 5 CHANNEL (F	\$ 10,794.00	50%
8DG59437AGXX	STATIC FILTER DWDM 5 CHANNEL (G	\$ 10,794.00	50%
8DG59437AHXX	STATIC FILTER DWDM 5 CHANNEL (H	\$ 10,794.00	50%
8DG59441AAXX	STATIC FILTER CWDM 4 CHANNEL (A	\$ 7,054.00	50%
8DG59441ABXX	STATIC FILTER CWDM 4 CHANNEL (B	\$ 7,054.00	50%

8DG59442AAXX	STATIC FILTER CWDM 8 CHANNEL	\$ 5,130.00	50%
8DG59451BAXX	CA-POWER CABLE, RED	\$ 468.00	50%
8DG59451BBXX	CA-POWER CABLE, BLUE	\$ 468.00	50%
8DG59518ABXX	FLEX SHELF COVER	\$ 223.00	50%
8DG59535AAXX	CO SHELF BAFFLE COVER - (PSS-32)	\$ 115.00	50%
8DG59602ABXX	KIT-FLEX SHELF (23 INCH ANSI WECO)	\$ 1,535.00	50%
8DG59603AAXX	KIT-OMD INSTALLATION KIT	\$ 122.00	50%
8DG59613AAXX	KIT-TOOL KIT	\$ 870.00	50%
8DG59614AAXX	MA-LC FIBER REMOVAL TOOL	\$ 108.00	50%
8DG59642AA	MA-1830ED HALF SLOT ADAPTER	\$ 91.80	50%
8DG59642AAXX	HALF SLOT ADAPTER (FILTER SLOT)	\$ 80.00	50%
8DG59724AAXX	FOADM INVENTORY CABLE ADAPTER	\$ 192.00	50%
8DG59727ABAA	ESWL ETHERNET BLADE LIC. POINT FEE N-E	\$ 256.00	50%
8DG59729BA	CA-ETSI 1830 PWR CABLE ASSY, A FEED (3.6	\$ 397.00	50%
8DG59729BAXX	CA-ETSI 1830 PWR CABLE ASSY, A FEED (3.6	\$ 592.00	50%
8DG59841AAXX	88 CHANNEL INTERLEAVER	\$ 12,588.80	50%
8DG59841ABXX	88 CHANNEL INTERLEAVER (UNIDIRECTIONAL)	\$ 14,907.00	50%
8DG59857AAXX	44 CHANNEL OPTICAL MUX/DEMUX - 50GHZ OFF	\$ 16,409.60	50%
8DG59945BA	AHPLG - HPOWER LGAIN DWDM AMPLIFIER V2	\$ 17,427.00	50%
8DG60129ACXX	PSS32 EIA/NAR COVER EXTENDER KIT	\$ 212.00	50%
8DG60130AAXX	OMD COVER KIT (EIA)	\$ 383.00	50%
8DG60130ABXX	OMD COVER KIT (ANSI)	\$ 383.00	50%
8DG60130AC	OMD COVER KIT (ETSI)	\$ 165.00	50%
8DG60131AAXX	DCM COVER KIT (EIA)	\$ 383.00	50%
8DG60131ABXX	DCM COVER KIT (ANSI)	\$ 383.00	50%
8DG60131AC	DCM COVER KIT (ETSI)	\$ 150.00	50%
8DG60207ABAA	ESWL 1830PSS WL TRACKER SW LIC FEE N-E	\$ 4,883.00	50%
8DG60210AAXX	STATIC FILTER DWDM 8 CHANNEL (A VARIANT)	\$ 10,580.00	50%
8DG60210ABXX	STATIC FILTER DWDM 8 CHANNEL - B VARIANT	\$ 10,580.00	50%
8DG60210ACXX	STATIC FILTER DWDM 8 CHANNEL (C VARIANT)	\$ 10,580.00	50%
8DG60210ADXX	STATIC FILTER DWDM 8 CHANNEL (D VARIANT)	\$ 10,580.00	50%
8DG60227AAAA	PRE-STAGING 1830PSS-16/32 STANDARD	\$ 1,903.00	50%
8DG60227ABAA	PRE-STAGING 1830PSS-16/32 EXTRA TEST	\$ 635.00	50%
8DG60227ACAA	PRE-STAGING 1830PSS-16/32 EXTRA TEMP	\$ 1,903.00	50%
8DG60227ADAA	PRE-STAGING 1830PSS-16/32 EXTRA TIME	\$ 635.00	50%
8DG60242BA	A2325A 23DBM VGAIN AMP W/DCM ACCESS V2	\$ 18,117.00	50%
8DG60349BA	11QPA4 - 11G QP ANY 4C (-5-65C) V2	\$ 15,940.00	50%
8DG60565HA	LATENCY MATCHED AM2318A LOW VAR GAIN AMP	\$ 32,562.00	50%
8DG60568AAXX	MESH EXTENSION PACK (EXTERNAL COUPLER CA	\$ 27,005.00	50%
8DG60788AAXX	PDU BRIDGING/JUMPER KIT	\$ 211.00	50%
8DG60912HA	LATENCY MATCHED AM2125B MED VAR GAIN AMP	\$ 32,553.00	50%
8DG60953ACAA	ESWL 1830PSS APPLICATION WDM GMPLS N-E	\$ 128.00	50%
8DG60968AAXX	16GB EC FLASHCARD UPGRADE KIT (PSS-32)	\$ 1,671.00	50%
8DG61223AB	WR8-88AF-8CH WL ROUTER-ADD SIDE FLEXGRID	\$ 25,988.00	50%
8DG61406AD	MSH8-FSM MESH 8D FIBSHUF ETSI	\$ 18,559.00	50%
8DG61458AAXX	SAN ENC KIT (11QPEN4 + SWL FOR 1-PORT)	\$ 26,169.00	50%
8DG61839AA	WR20-TF - 1X20 TWIN FLEX WSS	\$ 168,924.00	50%
8DG61978AAAA	ESWL 1830PSS SWITCHED OTN NODAL SWLICUPG	\$ 750.00	50%
8DG61979AAAA	ESWL 1830CNV OTN/XOADM WT&NODAL SWLICUPG	\$ 6,000.00	50%
8DG61980AAAA	ESWL 1830PSS SWITCHED OTN NODAL SW LIC	\$ 10,000.00	50%
8DG61981AAAA	ESWL 1830 CNVG OTN/XOADM WT&NODAL SWLIC	\$ 15,000.00	50%
8DG61982AAAA	ESWL 1830PSS ILA/DGE WT&NODAL SW LIC UPG	\$ 375.00	50%
8DG61983AAAA	ESWL 1830PSS WDM XOADM WT&NODAL SWLICUPG	\$ 3,000.00	50%
8DG61984AAAA	ESWL 1830PSS ILA/DGE WT & NODAL SW LIC	\$ 5,000.00	50%
8DG61985AAAA	ESWL 1830PSS XOADM WT & NODAL SWLIC	\$ 7,500.00	50%

8DG62444AA	IROADMF-INTEGRATED ROADM BLADE WFG AMP	\$ 39,640.00	50%
8DG62461AA	CA-INVENTORY, ETSI (.92M)	\$ 18.00	50%
8DG62461AB	CA-INVENTORY, ETSI (2.3M)	\$ 21.00	50%
8DG62461AC	CA-INVENTORY, ETSI (5.5M)	\$ 27.00	50%
8DG62461AD	CA-INVENTORY, ETSI (7M)	\$ 31.00	50%
8DG62498AA	ASWG AMPLIFIER, SWITCHED GAIN EDFA	\$ 69,420.00	50%
8DG62498AB	ASWG AMPLIFIER, SWITCHED GAIN EDFA LP	\$ 65,820.00	50%
8DG62498AC	ASWG AMP SWITCHED GAIN EDFA INV PORT	\$ 65,820.16	50%
8DG62498AD	ASWG AMP SWITCHED GAIN EDFA LP INV PORT	\$ 65,820.16	50%
8DG62519AA	WR20-TFM TWIN 1X20 W/ MPO CONNECTORS	\$ 195,802.88	50%
8DG62546AAAA	SWPL 1830PSS-OCS R3.0.6	\$ 77.00	50%
8DG62635BA	32EC2 - HP EQUIPMENT CONTROLLER V2	\$ 3,965.00	50%
8DG62667AA	JUMPER, MPO, ETSI 3.5M	\$ 426.00	50%
8DG62667AB	JUMPER, MPO, ETSI, 7M	\$ 458.00	50%
8DG62667AC	JUMPER, MPO, ETSI 10M	\$ 619.00	50%
8DG62667AD	JUMPER, MPO, ETSI, 15M	\$ 749.00	50%
8DG62692AA	10LC TO MPO FANOUT CABLE,MULTI-MODE,ETSI	\$ 753.00	50%
8DG62735AA	JUMPER,MPO,ETSI,180MM,BD INSENSITIVE FBR	\$ 437.00	50%
8DG62735AB	JUMPER,MPO,ETSI,900MMLNG,BD NSENSITVEFBR	\$ 417.00	50%
8DG62769AA	JUMPER, LC-APC, 3.5M, ETSI, SM, SIMPLEX	\$ 29.00	50%
8DG62769AB	JUMPER, LC-APC, 7M, ETSI, SM, SIMPLEX	\$ 38.00	50%
8DG62803AAAA	Advanced Technology Access Fee	Custom Bid	0%
8DG62993AA	1CE100 - 1X100GBE L2 CARD	\$ 39,680.00	50%
8DG63029AA	RA5P WIDE BAND RAMAN AMPLIFIER- 5 PUMPS	\$ 167,979.00	50%
8DG63174AA	PSS-32 MOD FAN BASE UNIT (FRU)	\$ 2,185.00	50%
8DG63176AA	PSS32 HIGH OUTPUT MOD FAN TRAY	\$ 7,064.00	50%
8DG63187AA	PSS-32 MOD FAN MODULE (FRU)	\$ 1,634.00	50%
8DG63207AC	S13X100L 100G MUX/XPDR/UPLINK L-BAND	\$ 379,521.00	50%
8DG63235AAAA	1830PSS-CPB R8.0.0 DVD	\$ 99.00	50%
8DG63366AA	MPO APC SHORT JUMPER-ETSI, 180MM	\$ 280.00	50%
8DG63366AB	MPO APC SHORT JUMPER-ETSI, 900MM	\$ 287.00	50%
8DG63366AC	MPO-MPO APC JUMPER-ETSI, 3.5M	\$ 283.00	50%
8DG63366AD	MPO-MPO APC JUMPER-ETSI, 7M	\$ 295.00	50%
8DG63366AE	MPO-MPO APC JUMPER-ETSI, 10M	\$ 299.00	50%
8DG63366AF	MPO-MPO APC JUMPER-ETSI, 15M	\$ 372.00	50%
8DG63541BB	1830VWM 1RU TYPE 1 21IN ETSI RK MT BRKT	\$ 227.00	50%
8DG63541BF	PMU ETSI 21 IN RACK MOUNT BRACKET	\$ 156.00	50%
8DG63541CJ	1830VWM 1RU TYPE 2 21IN ETSI RK MNT BRKT	\$ 168.00	50%
8DG63583AA	32EC2E - HP EQUIPMENT CONTROLLER SECURED	\$ 4,489.00	50%
8DG63701AC	40M ANSI INVENTORY CABLE KIT	\$ 1,686.00	50%
8DG63741AA	CABLE- ANSI MPO TO LC FIBER JUMPER	\$ 703.00	50%
8DG63742AA	CABLE - ETSI MPO TO LC FIBER JUMPER	\$ 742.00	50%
8DG63742AB	CA-MPO-LC JUMPER, SM, 0.8M DUAL RATED	\$ 252.00	50%
8DG63950AA	D5X500L 500G MUX/UL5CL,UNLOCKED(L-BAND)	\$ 1,099,338.00	50%
8DG63979AA	32EC2 - HP Equipment Controller N-E	\$ 5,195.00	50%
8DG63985AA	D5X500Q 500G MUX/UPLINK, 5CL, UNLOCKED	\$ 845,645.00	50%
8DG63990AG	DMP005 - DCM - POSITIVE 5 KM	\$ 3,622.00	50%
8DG63991AG	DMP010 - DCM - POSITIVE 10 KM	\$ 3,803.00	50%
8DG63992AG	DMP015 - DCM - POSITIVE 15 KM	\$ 3,984.00	50%
8DG63993AG	DMP020 - DCM - POSITIVE 20 KM	\$ 4,165.00	50%
8DG63994AG	DMP025 - DCM - POSITIVE 25 KM	\$ 4,346.00	50%
8DG63995AG	DMP030 - DCM - POSITIVE 30 KM	\$ 4,527.00	50%
8DG63996AG	DMP035 - DCM - POSITIVE 35 KM	\$ 4,708.00	50%
8DG63997AG	DMP040 - DCM - POSITIVE 40 KM	\$ 4,889.00	50%
8DG64012AA	OPS SHELF CHASSIS (RACK MOUNT)	\$ 4,576.00	50%

8DG64012AB	OPS CHASSIS (RACK MNT), THRM IMP, EMU RM	\$ 4,400.00	50%
8DG64013AA	OPS POWER SUPPLYSES UNIT (PSU)	\$ 1,300.00	50%
8DG64013AB	OPS PWR SUPP UNIT (PSU) / ELEC COMPL IMP	\$ 1,500.00	50%
8DG64014AA	OPS EQUIPMENT MANAGEMENT UNIT (EMU)	\$ 2,860.00	50%
8DG64014AB	OPS EQUIP MGMT UNIT (EMU) / THERMAL IMP	\$ 2,900.00	50%
8DG64028AA	OPS OSM SLOT BLANK COVER	\$ 104.00	50%
8DG64030AAAA	PRE-STAGING 1830PSS ANSSI QS	\$ 200.00	50%
8DG64036AA	1830 PHOTONIC SERVICE DEMARCATION (PSD)	\$ 9,458.00	50%
8DG64043AA	OPS PSU SLOT BLANK COVER	\$ 104.00	50%
8DG64092AA	CC EAL3 PSS-32 SHELF KIT (WITH 2X32EC2E)	\$ 22,545.00	50%
8DG64097AA	OPS PSU DC POWER CABLE	\$ 52.00	50%
8DG87518AAXX	UPPER AND HORIZONTAL AIR BAFFLE	\$ 122.00	50%
8DG90079AA	CA-RACK LAMP CABLE (ETSI) 2.8M	\$ 90.00	50%
8DG98812AA	Common material for: 7705 SAR8v2 chassis	\$ 235.44	50%
8DG99108AA	PSS-24X ETSI RACK ZONE 4 KIT	\$ 912.00	50%
PSS8KITB	PSS8 SHELF KIT-B W/EC, ANGLE PWR CABLES	\$ 21,021.00	50%

UNIT PRICE	Status
\$ 0.18	Removed
\$ 0.10	Removed
\$ 0.10	Removed
\$ 0.36	Removed
\$ 1.86	Removed
\$ 3.46	Removed
\$ 0.87	Removed
\$ 29.41	Removed
\$ 4.95	Removed
\$ 0.25	Removed
\$ 0.25	Removed
\$ 127.07	Removed
\$ 7.65	Removed
\$ 5.43	Removed
\$ 47.11	Removed
\$ 47.11	Removed
\$ 0.22	Removed
\$ 0.30	Removed
\$ 2.56	Removed
\$ 5.05	Removed
\$ 6.72	Removed
\$ 4.06	Removed
\$ 3.58	Removed
\$ 11.16	Removed
\$ 5.46	Removed
\$ 20.55	Removed
\$ 0.22	Removed
\$ 4.98	Removed
\$ 4.62	Removed
\$ 0.41	Removed
\$ 0.41	Removed
\$ 40.59	Removed
\$ 28.50	Removed
\$ 32.70	Removed
\$ 0.30	Removed
\$ 4.31	Removed
\$ 42.24	Removed
\$ 14.04	Removed
\$ 0.41	Removed
\$ 4.62	Removed
\$ 5.05	Removed
\$ 4.62	Removed
\$ 25.06	Removed
\$ 0.48	Removed
\$ 0.41	Removed
\$ 9.54	Removed
\$ 14.28	Removed
Custom Bid	Removed

Custom Bid	Removed
\$ 850.00	Removed
\$ 2,500.00	Removed
\$ 600.00	Removed
\$ 250.00	Removed
\$ 116.50	Removed
\$ 850.00	Removed
\$ 2,500.00	Removed
\$ 1,600.00	Removed
\$ 1,600.00	Removed
\$ 3,663.60	Removed
\$ 200.00	Removed
\$ 1,816.40	Removed
\$ 30,931.20	Removed
\$ 3,765.06	Removed
\$ 0.26	Removed
\$ 1.06	Removed
\$ 0.11	Removed
\$ 0.37	Removed
\$ 0.30	Removed
\$ 0.35	Removed
\$ 1.35	Removed
\$ 0.07	Removed
\$ 0.02	Removed
\$ 0.22	Removed
\$ 8.29	Removed
\$ 6.71	Removed
\$ 4.21	Removed
\$ 30.21	Removed
\$ 0.18	Removed
\$ 0.39	Removed
\$ 9.38	Removed
\$ 0.17	Removed
\$ 0.73	Removed
\$ 0.60	Removed
\$ 1.76	Removed
\$ 1.81	Removed
\$ 0.05	Removed
\$ 0.09	Removed
Custom Bid	Removed
Custom Bid	Removed
\$ 0.01	Removed
\$ 1.74	Removed
\$ 1.20	Removed
\$ 0.40	Removed
\$ 0.78	Removed
\$ 0.51	Removed
\$ 0.59	Removed
\$ 0.23	Removed
\$ 0.55	Removed
\$ 0.25	Removed
\$ 0.46	Removed
\$ 0.33	Removed
\$ 0.52	Removed
\$ 12.17	Removed

\$ 0.15	Removed
\$ 0.15	Removed
\$ 0.15	Removed
\$ 0.84	Removed
\$ 20.63	Removed
\$ 5.10	Removed
\$ 1.03	Removed
\$ 1.33	Removed
\$ 1.38	Removed
\$ 1.56	Removed
\$ 2.29	Removed
\$ 3.42	Removed
\$ 1.87	Removed
\$ 2.52	Removed
\$ 1.78	Removed
\$ 6.91	Removed
\$ 0.30	Removed
\$ 0.57	Removed
\$ 21.24	Removed
\$ 7.87	Removed
\$ 1.14	Removed
\$ 1.60	Removed
\$ 15.49	Removed
\$ 15.83	Removed
\$ 62.46	Removed
\$ 11.45	Removed
\$ 18.90	Removed
\$ 0.30	Removed
\$ 1.98	Removed
\$ 36.73	Removed
\$ 9.05	Removed
\$ 29.20	Removed
\$ 2.07	Removed
\$ 14.17	Removed
\$ 2.34	Removed
\$ 2.27	Removed
\$ 2.87	Removed
\$ 1.60	Removed
\$ 1.38	Removed
\$ 2.07	Removed
\$ 4.42	Removed
\$ 1.20	Removed
\$ 1.51	Removed
\$ 1.29	Removed
\$ 1.91	Removed
\$ 1.45	Removed
\$ 2.14	Removed
\$ 1.83	Removed
\$ 7.06	Removed
\$ 7.72	Removed
\$ 6.00	Removed
\$ 4.20	Removed
\$ 4.66	Removed
\$ 66.65	Removed
\$ 2.47	Removed

\$ 32.29	Removed
\$ 30.43	Removed
\$ 41.58	Removed
\$ 5.88	Removed
\$ 87.77	Removed
\$ 52.39	Removed
\$ 2.58	Removed
\$ 1.09	Removed
\$ 0.60	Removed
\$ 0.40	Removed
\$ 0.17	Removed
\$ 0.17	Removed
\$ 4.23	Removed
\$ 6.31	Removed
\$ 176.52	Removed
\$ 28.21	Removed
\$ 4.23	Removed
\$ 10.06	Removed
\$ 11.76	Removed
\$ 7.26	Removed
\$ 8.04	Removed
\$ 7.61	Removed
\$ 1.04	Removed
\$ 24.54	Removed
\$ 14.16	Removed
\$ 99.37	Removed
\$ 0.49	Removed
\$ 5.22	Removed
\$ 1.38	Removed
\$ 9.47	Removed
\$ 0.59	Removed
\$ 4.37	Removed
\$ 2.68	Removed
\$ 0.42	Removed
\$ 0.42	Removed
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\$ 0.43	Removed
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\$ 0.44	Removed
\$ 0.43	Removed
\$ 0.48	Removed
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\$ 0.48	Removed
\$ 0.72	Removed
\$ 0.66	Removed
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\$ 0.66	Removed
\$ 0.90	Removed
\$ 0.90	Removed
\$ 0.85	Removed
\$ 0.48	Removed
\$ 0.65	Removed
\$ 0.83	Removed
\$ 1.19	Removed
\$ 1.01	Removed

\$ 1.71	Removed
\$ 2.61	Removed
\$ 3.34	Removed
\$ 3.09	Removed
\$ 74.47	Removed
\$ 3.78	Removed
\$ 3.27	Removed
\$ 0.48	Removed
\$ 2.71	Removed
\$ 0.59	Removed
\$ 2.50	Removed
\$ 30.72	Removed
\$ 3.52	Removed
\$ 0.95	Removed
\$ 1.59	Removed
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\$ 23.91	Removed
\$ 11.86	Removed
\$ 10.59	Removed
\$ 2.87	Removed
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\$ 0.96	Removed
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\$ 39.60	Removed
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\$ 2.83	Removed
\$ 1.62	Removed
\$ 1.62	Removed
\$ 0.52	Removed
\$ 122.37	Removed
\$ 87.77	Removed
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\$ 16.45	Removed
\$ 28.56	Removed
\$ 3.71	Removed
\$ 2.16	Removed
\$ 8.02	Removed
\$ 211.80	Removed
\$ 8.02	Removed
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\$ 2.76	Removed
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\$ 0.59	Removed
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\$ 2.34	Removed

\$ 7.38	Removed
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\$ 49.87	Removed
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\$ 22.44	Removed
\$ 2.65	Removed
\$ 3.31	Removed
\$ 3.30	Removed
\$ 3.31	Removed
\$ 5.10	Removed
\$ 3.64	Removed
\$ 4.68	Removed
\$ 2.74	Removed

\$ 4.01	Removed
\$ 2.46	Removed
\$ 2.91	Removed
\$ 4.32	Removed
\$ 924.00	Removed
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\$ 1.75	Removed
\$ 1.18	Removed
\$ 51.70	Removed
\$ 5.16	Removed
\$ 55.92	Removed
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\$ 3.24	Removed
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\$ 2.68	Removed
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\$ 7.84	Removed
\$ 7.54	Removed
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\$ 2.64	Removed
\$ 5.07	Removed
\$ 11.40	Removed

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\$ 16.38	Removed
\$ 23.23	Removed
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\$ 21.87	Removed
\$ 13.84	Removed
\$ 14.50	Removed
\$ 12.37	Removed
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\$ 23.04	Removed
\$ 15.78	Removed
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\$ 20.57	Removed
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\$ 256.32	Removed
\$ 10.87	Removed
\$ 131.35	Removed

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\$ 1.05	Removed
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\$ 1.01	Removed
\$ 0.06	Removed
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\$ 0.51	Removed
\$ 1.25	Removed
\$ 0.63	Removed

\$ 74.50	Removed
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Custom Bid	Removed
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\$ 5.01	Removed
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\$ 45.52	Removed
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\$ 1.47	Removed
\$ 7.00	Removed
\$ 12.00	Removed
\$ 4.39	Removed
Custom Bid	Removed
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\$ 428.00	Removed
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\$ 58.40	Removed
\$ 154.00	Removed
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\$ 70.00	Removed
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\$ 5.76	Removed
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\$ 351.00	Removed
\$ 108.50	Removed
\$ 55,890.00	Removed
Custom Bid	Removed

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\$ 186.24	Removed
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\$ 10.06	Removed
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\$ 325.00	Removed
\$ 62.50	Removed
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\$ 364.01	Removed
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\$ 408.00	Removed
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Custom Bid	Removed
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\$ 1.26	Removed
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Custom Bid	Removed
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\$ 10.45	Removed

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Custom Bid	Removed
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\$ 61.00	Removed
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\$ 454.50	Removed
\$ 190.50	Removed
\$ 277.50	Removed
\$ 293.00	Removed
\$ 16,005.00	Removed
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\$ 398.00	Removed
\$ 75.00	Removed
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\$ 6,080.00	Removed
\$ 8,320.00	Removed
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\$ 277.50	Removed
\$ 693.00	Removed
\$ 3,091.00	Removed
\$ 1,258.00	Removed
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\$ 57.50	Removed
\$ 57.50	Removed

\$ 3,390.00	Removed
\$ 57.60	Removed
\$ 57.50	Removed
\$ 160.00	Removed
\$ 163.00	Removed
\$ 57.50	Removed
\$ 57.50	Removed
\$ 57.50	Removed
\$ 57.50	Removed
\$ 57.50	Removed
\$ 57.50	Removed
\$ 38.50	Removed
\$ 38.50	Removed
\$ 57.50	Removed
\$ 85,173.00	Removed
\$ 42.00	Removed
\$ 105.00	Removed
\$ 115.50	Removed
\$ 11,355.00	Removed
\$ 11,355.00	Removed
\$ 11,355.00	Removed
\$ 11,355.00	Removed
\$ 3,500.00	Removed
\$ 550.00	Removed
\$ 57.50	Removed
\$ 38.50	Removed
\$ 30,626.00	Removed
\$ 56,640.00	Removed
\$ 1,830.00	Removed
\$ 1,037.00	Removed
\$ 732.00	Removed
\$ 659.00	Removed
\$ 569.50	Removed
\$ 7,680.00	Removed
\$ 7,680.00	Removed
\$ 57.50	Removed
\$ 8,019.50	Removed
\$ 3,770.00	Removed
\$ 701.50	Removed
\$ 7,015.00	Removed
\$ 1,885.00	Removed
\$ 368.50	Removed
\$ 72.50	Removed
\$ 3,156.50	Removed
\$ 9,067.00	Removed
\$ 158.00	Removed
\$ 600.00	Removed
\$ 65,969.50	Removed
\$ 31,104.50	Removed
\$ 27.50	Removed
\$ 27.50	Removed
\$ 64.50	Removed
\$ 64.50	Removed
\$ 77,071.50	Removed
\$ 44,144.50	Removed
\$ 23,367.50	Removed

\$ 22.50	Removed
\$ 1,432.00	Removed
\$ 1,909.50	Removed
\$ 1,082.00	Removed
\$ 764.00	Removed
\$ 19,095.00	Removed
\$ 10,820.00	Removed
\$ 7,640.00	Removed
\$ 14,320.00	Removed
\$ 17,408.00	Removed
\$ 1,450.50	Removed
\$ 725.50	Removed
\$ 550.00	Removed
\$ 5,500.00	Removed
\$ 1,591.50	Removed
\$ 902.00	Removed
\$ 636.50	Removed
\$ 573.00	Removed
\$ 495.00	Removed
\$ 15,915.00	Removed
\$ 9,020.00	Removed
\$ 6,365.00	Removed
\$ 5,730.00	Removed
\$ 4,950.00	Removed
\$ 18,300.00	Removed
\$ 10,370.00	Removed
\$ 7,320.00	Removed
\$ 6,590.00	Removed
\$ 5,695.00	Removed
\$ 653.00	Removed
\$ 1,450.50	Removed
\$ 2,176.00	Removed
\$ 2,901.50	Removed
\$ 3,264.00	Removed
\$ 15,667.00	Removed
\$ 34,816.00	Removed
\$ 52,224.00	Removed
\$ 69,632.00	Removed
\$ 78,336.00	Removed
\$ 2,176.00	Removed
\$ 11,590.00	Removed
\$ 49,922.00	Removed
\$ 53,673.00	Removed
\$ 9,355.00	Removed
\$ 17,700.50	Removed
\$ 38.50	Removed
\$ 57.50	Removed
\$ 38.50	Removed
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\$ 57.50	Removed
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\$ 1,638.50	Removed
\$ 1,638.50	Removed
\$ 38.50	Removed
\$ 57.50	Removed

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\$ 55.00	Removed
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\$ 199,990.00	Removed
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\$ 17.00	Removed
\$ 57.00	Removed
\$ 171.00	Removed
\$ 17.00	Removed
\$ 57.00	Removed
\$ 171.00	Removed
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\$ 38.00	Removed
\$ 114.00	Removed
\$ 76.00	Removed
\$ 228.00	Removed
\$ 11.50	Removed
\$ 38.00	Removed
\$ 114.00	Removed
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\$ 400,000.00	Removed
\$ 400,000.00	Removed
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\$ 38.50	Removed
\$ 35,502.00	Removed
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\$ 38.50	Removed
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\$ 57.50	Removed
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\$ 11,368.50	Removed
\$ 16,375.00	Removed
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\$ 22.00	Removed

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\$ 56.00	Removed
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\$ 56.00	Removed
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\$ 9,549.46	Removed
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\$ 56.00	Removed
\$ 56.00	Removed
\$ 52.69	Removed
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\$ 1,638.50	Removed

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\$ 420.00	Removed
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\$ 175.00	Removed
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\$ 1,947.00	Removed
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\$ 3,259.00	Removed
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\$ 4,387.50	Removed
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\$ 7,301.00	Removed
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\$ 5,397.00	Removed
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\$ 3,527.00	Removed

\$ 2,565.00	Removed
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\$ 128.00	Removed
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\$ 8,713.50	Removed
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\$ 191.50	Removed
\$ 191.50	Removed
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\$ 317.50	Removed
\$ 9,058.50	Removed
\$ 7,970.00	Removed
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\$ 16,276.50	Removed
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\$ 9,279.50	Removed
\$ 13,084.50	Removed
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\$ 375.00	Removed
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\$ 5,000.00	Removed
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\$ 2,500.00	Removed
\$ 3,750.00	Removed

\$ 19,820.00	Removed
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\$ 15.50	Removed
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\$ 376.50	Removed
\$ 218.50	Removed
\$ 208.50	Removed
\$ 14.50	Removed
\$ 19.00	Removed
Custom Bid	Removed
\$ 19,840.00	Removed
\$ 83,989.50	Removed
\$ 1,092.50	Removed
\$ 3,532.00	Removed
\$ 817.00	Removed
\$ 189,760.50	Removed
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\$ 141.50	Removed
\$ 147.50	Removed
\$ 149.50	Removed
\$ 186.00	Removed
\$ 113.50	Removed
\$ 78.00	Removed
\$ 84.00	Removed
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\$ 843.00	Removed
\$ 351.50	Removed
\$ 371.00	Removed
\$ 126.00	Removed
\$ 549,669.00	Removed
\$ 2,597.50	Removed
\$ 422,822.50	Removed
\$ 1,811.00	Removed
\$ 1,901.50	Removed
\$ 1,992.00	Removed
\$ 2,082.50	Removed
\$ 2,173.00	Removed
\$ 2,263.50	Removed
\$ 2,354.00	Removed
\$ 2,444.50	Removed
\$ 2,288.00	Removed

\$ 2,200.00	Removed
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\$ 750.00	Removed
\$ 1,430.00	Removed
\$ 1,450.00	Removed
\$ 52.00	Removed
\$ 100.00	Removed
\$ 4,729.00	Removed
\$ 52.00	Removed
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\$ 61.00	Removed
\$ 45.00	Removed
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\$ 456.00	Removed
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Part No
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1AK36000AAAM
1AK36000AAAN
1AK36000AAAN
1AK38000AAAN
1AK38000AAAN
3HE09985EA
3HE09997EA
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3HE11724TA
3HE11725TC
3HE11725TC
3HE11799EA
3HE11800EA
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3HE14512AA
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3KC95014AAAA



Network Management

Description	MPL (GLP) \$USD
DL360 GEN10 1CPU 8 CORE	\$ 11,319.00
DL360 GEN10 1CPU 8 CORE	\$ 11,319.00
DL360 GEN 10 2CPU 16 CORE	\$ 18,397.00
DL360 GEN 10 2CPU 16 CORE	\$ 18,397.00
DL380 GEN 10 2CPU 40 CORE	\$ 41,084.00
DL380 GEN 10 2CPU 40 CORE	\$ 41,084.00
NSP 19: NSD STANDARD BASE	\$ 80,000.00
NSP 19: NRC-X STANDARD BASE	\$ 400,000.00
VSAP NETWORK ELEMENT MGNT LICENSE	\$ 1,028.00
VSAP NETWORK ELEMENT MGNT LICENSE	\$ 1,028.00
VSAP VIRTUAL RT AND SWITCHING LIC	\$ 115.00
VSAP VIRTUAL RT AND SWITCHING LIC	\$ 115.00
NSP 19: NFM-P STANDARD BASE	\$ 80,000.00
NSP 19: NFM-P PREMIUM BASE	\$ 160,000.00
NSP 19: NFM-P CONVERSION STD - PREM BASE	\$ 80,000.00
NSP: NFM-P STANDARD LP	\$ 110.00
NSP: NFM-P STANDARD LP	\$ 110.00
NSP: NFM-P STANDARD LP	\$ 110.00
NSP: NFM-P PREMIUM LP	\$ 165.00
NSP: NFM-P PREMIUM LP	\$ 165.00
NSP: NFM-P PREMIUM LP	\$ 165.00
NSP: NFM-P LP CONV. STD. TO PREMIUM	\$ 55.00
NSP: NFM-P LP CONV. STD. TO PREMIUM	\$ 55.00
NSP: NFM-P LP CONV. STD. TO PREMIUM	\$ 55.00
NSP: NFM-P HA / DR LP	\$ 20.00
NSP: NFM-P HA / DR LP	\$ 20.00
NSP: NFM-P HA / DR LP	\$ 20.00
NSP: NFM-P HA / DR LP	\$ 20.00
NSP: NFM-P HA / DR LP	\$ 20.00
NSP: NFM-P WIRELESS PREMIUM LTE LP	\$ 165.00
NSP: NFM-P WIRELESS PREMIUM LTE LP	\$ 165.00
NSP: NFM-P WIRELESS STD-PREM LTE LP CONV	\$ 55.00
NSP: NFM-P WIRELESS STD-PREM LTE LP CONV	\$ 55.00
NSP 19: NFM-P AA ANALYTICS BASE	\$ 145,000.00
NSP 10K AA MOBILE SUBS	\$ 10,000.00
NSP: NFM-P 10K AA MOBILE SUBS	\$ 10,000.00
NSP: NFM-P 10K AA MOBILE SUBS	\$ 10,000.00
NSP 19: NFM-P EXTENDED NE S/W SUPPORT	\$ 10,000.00
NSP 20 EXTENDED NE S/W SUPPORT	\$ 10,000.00
NSP 21 EXTENDED NE S/W SUPPORT	\$ 10,000.00
VSAP VIRTUAL RT AND SWITCHING NSG LIC	\$ 110.00
VSAP VIRTUAL RT AND SWITCHING NSG LIC	\$ 110.00
VSAP HA / DR NE MGNT LIC	\$ 190.00
VSAP HA / DR NE MGNT LIC	\$ 190.00
NSP: NSD-NRC STANDARD ROUTING LP	\$ 135.00
NSP: NSD-NRC STANDARD ROUTING LP	\$ 135.00

NSP: NSD-NRC STANDARD ROUTING LP	\$ 135.00
NSP: NSD-NRC STANDARD ROUTING LP	\$ 135.00
NSP: NSD-NRC STANDARD ROUTING LP	\$ 135.00
NSP: NSD-NRC STANDARD ROUTING LP	\$ 135.00
NSP: NSD-NRC HA / DR ROUTING LP	\$ 20.00
NSP: NSD-NRC HA / DR ROUTING LP	\$ 20.00
NSP: NSD-NRC HA / DR ROUTING LP	\$ 20.00
NSP: NSD-NRC HA / DR ROUTING LP	\$ 20.00
NSP: NSD-NRC HA / DR ROUTING LP	\$ 20.00
NSP: NSD-NRC HA / DR ROUTING LP	\$ 20.00
NSP: NFM-P LAB LIC NO HA / DR	\$ 25,000.00
NSP: NFM-P LAB LIC NO HA / DR	\$ 25,000.00
NSP: NFM-P LAB LIC HA / DR	\$ 50,000.00
NSP: NFM-P LAB LIC HA / DR	\$ 50,000.00
NSP: NSD-NRC LAB LIC NO HA / DR	\$ 25,000.00
NSP: NSD-NRC LAB LIC NO HA / DR	\$ 25,000.00
NSP: NSD-NRC LAB LIC WITH HA / DR	\$ 50,000.00
NSP: NSD-NRC LAB LIC WITH HA / DR	\$ 50,000.00
NSP 19: NRC-P SIMULATION	\$ 50,000.00
NSP 19: NRC-P PATH CONTROL	\$ 200,000.00
NSP 19: NRC-P OPTIMIZATION	\$ 50,000.00
NSP 19: NRC-P OPENFLOW CONTROL	\$ 50,000.00
NSP 19: NSD PREMIUM BASE	\$ 160,000.00
NSP 19: NSD CONVERSION STD - PREM BASE	\$ 80,000.00
NSP: NSD-NRC PREMIUM ROUTING LP	\$ 200.00
NSP: NSD-NRC PREMIUM ROUTING LP	\$ 200.00
NSP: NSD-NRC ROUTING LP CONV STD TO PREM	\$ 65.00
NSP: NSD-NRC ROUTING LP CONV STD TO PREM	\$ 65.00
NSP: NFM-P STD LP CONV TO NSD-NRC RTG LP	\$ 25.00
NSP: NFM-P STD LP CONV TO NSD-NRC RTG LP	\$ 25.00
NSP NFM-P PREM LP CONV TO NSD-NRC RTG LP	\$ 35.00
NSP NFM-P PREM LP CONV TO NSD-NRC RTG LP	\$ 35.00
NSP 20 APPLIANCE GREENFIELD SIMPLEX	\$ 233,410.00
NSP 20 APPLIANCE GREENFIELD DR	\$ 317,200.00
NSP 21.6 APPLIANCE GREENFIELD SIMPLEX	\$ 233,410.00
NSP 21.6 APPLIANCE GREENFIELD DR	\$ 317,200.00
NSP 20 APPLIANCE BROWNFIELD SIMPLEX	\$ 90,610.00
NSP 20 APPLIANCE BROWNFIELD DR	\$ 133,200.00
NSP 21.6 APPLIANCE BROWNFIELD SIMPLEX	\$ 90,610.00
NSP 21.6 APPLIANCE BROWNFIELD DR	\$ 133,200.00
NSP CLASSIC MANAGEMENT FP	\$ 25.00
NSP PLUGGABLE NETWORK ADAPTATION FP	\$ 25.00
NSP INTENT BASED NETWORKING FRAMEWORK FP	\$ 25.00
NSP 20 PLATFORM BASE	\$ 80,000.00
NSP 21 PLATFORM BASE	\$ 80,000.00
NSP 17: NFM-T STANDARD LP	\$ 106.01
NSP 17: NFM-T HIGH AVAILABILITY LP	\$ 21.20
NSP 17: NFM-T STANDARD BASE	\$ 77,000.00
NFM-T ENHANCED DB 4VCPU	\$ 43,315.00
NFM-T ENHANCED DB 4VCPU	\$ 43,315.00
NFM-T ENHANCED DB 4VCPU	\$ 43,315.00
NFM-T 2 CPU EMBEDDED OS ENHANCEMENT	\$ 4,745.00
NFM-T 2 CPU EMBEDDED OS ENHANCEMENT	\$ 4,745.00
NFM-T 2 CPU EMBEDDED OS ENHANCEMENT	\$ 4,745.00
NFM-T 18 STANDARD BASE	\$ 77,000.00

NFM-T STANDARD LP	\$ 110.00
NFM-T STANDARD LP	\$ 110.00
NFM-T STANDARD LP	\$ 110.00
NFM-T HIGH AVAILABILITY LP	\$ 22.00
NFM-T HIGH AVAILABILITY LP	\$ 22.00
NFM-T HIGH AVAILABILITY LP	\$ 22.00
ESWL NFM-T 19 STANDARD BASE	\$ 77,000.00
ESWL NFM-T20 APP PLUS EMBEDDED OS BASELIC	\$ 77,000.00
ESWL NFM-T 20 APPLICATION ONLY BASE LIC	\$ 77,000.00
ESWL NTSM BASE LICENSE	\$ 23,100.00
ESWL-NFM-T 21 APPLICATION ONLY BASE LIC	\$ 77,000.00
ESWL-OTDR BASE LICENSE	\$ 23,100.00
ESWL-NFM-T HA REVERSE PROXY	\$ 11,000.00
NSP 17: NRC-T STANDARD BASE	\$ 371,035.00
NSP 17: NSD-NRC STANDARD TRANSPORT LP	\$ 110.00
NSP 17: NSD-NRC HIGH AVAIL TRANSPORT LP	\$ 22.00
NRC-T 18 STANDARD BASE	\$ 399,980.00
NRC STANDARD TRANSPORT LP	\$ 110.00
NRC STANDARD TRANSPORT LP	\$ 110.00
NRC STANDARD TRANSPORT LP	\$ 110.00
NRC STANDARD TRANSPORT LP	\$ 110.00
NRC STANDARD TRANSPORT LP	\$ 110.00
ESWL NRC-T 19 STANDARD BASE	\$ 399,980.00
ESWL NRC-T 20 STANDARD BASE	\$ 399,980.00
ESWL-NRC-T 21 STANDARD BASE	\$ 399,980.00
ESWP WS SE INFRASTRUCTURE SOFTWARE	\$ 14,400.00
ESWL-WS SE SVC UTIL RPT 1G VC	\$ 34.00
ESWL-WS SE SVC UTIL RPT 10G VC	\$ 114.00
ESWL-WS SE SVC UTIL RPT 100G VC	\$ 342.00
ESWL-WS SE SVC AVAIL RPT 1G VC	\$ 34.00
ESWL-WS SE SVC AVAIL RPT 10G VC	\$ 114.00
ESWL-WS SE SVC AVAIL RPT 100G VC	\$ 342.00
ESWL-WS SE SVC DASHBOARD 1G VC	\$ 23.00
ESWL-WS SE SVC DASHBOARD 10G VC	\$ 76.00
ESWL-WS SE SVC DASHBOARD 100G VC	\$ 228.00
ESWL-WSSE STANDARD 25 SEU PY	\$ 102,400.00
ESWL-WSSE STANDARD 100 SEU PY	\$ 358,400.00
ESWL-WSSE STANDARD 250 SEU PY	\$ 793,600.00
ESWL-WSSE STANDARD 500 SEU PY	\$ 1,382,400.00
ESWL-WSSE STANDARD 1000 SEU PY	\$ 2,432,000.00
ESWL-WSSE STANDARD UNL SEU PY	\$ 4,147,200.00
ESWL-WSSE L1 SVC AUTOMATE 25 SEU PY	\$ 76,800.00
ESWL-WSSE L1 SVC AUTOMATE 100 SEU PY	\$ 230,400.00
ESWL-WSSE L1 SVC AUTOMATE 250 SEU PY	\$ 537,600.00
ESWL-WSSE L1 SVC AUTOMATE 500 SEU PY	\$ 870,400.00
ESWL-WSSE L1 SVC AUTOMATE 1000 SEU PY	\$ 1,536,000.00
ESWL-WSSE L1 SVC AUTOMATE UNL SEU PY	\$ 2,764,800.00
ESWL-WSSE STANDARD 2500 SEU PY	\$ 5,529,600.00
ESWL-WSSE L1 SVC AUTOMATE 2500 SEU PY	\$ 3,456,000.00
ESWL-WSHA VISUALISATION 50 PEU PY	\$ 25,600.00
ESWL-WSHA VISUALISATION 1000 PEU PY	\$ 243,200.00
ESWL-WSHA VISUALISATION 2000 PEU PY	\$ 409,600.00
ESWL-WSHA VISUALISATION 5000 PEU PY	\$ 550,400.00
ESWL-WSHA VISUALISATION 10000 PEU PY	\$ 844,800.00
ESWL-WSHA VISUALISATION 20000 PEU PY	\$ 1,331,200.00

ESWL-WSHA VISUALISATION UNL PEU PY	\$ 1,804,800.00
ESWL-WP ON SERVER UP TO 20 USERS RTU	\$ 358,400.00
ESWL-WAVEPLANNER STANDARD TRANSPORT LP	\$ 2.00
WAVEPLANNER - TRANSPORT SRS (NAR ONLY)	\$ 1.00
ESWL-WAVEPLANNER ON PC NAMED RTU	\$ 12,800.00
WAVEPLANNER TRANSPORT SRS	\$ 1.00
ESWL-WP ON SERVER UP TO 20 USERS RTU	\$ 358,400.00
ESWL-WAVEPLANNER ON PC NAMED RTU	\$ 12,800.00
ESWL-WSO - TRANSPORT - SRS	\$ 1.10
WSO - TRANSPORT SRS (NAR ONLY)	\$ 1.00
ESWL WSO STANDARD TRANSPORT LP	\$ 200.00
ESWL WSO 20 STANDARD BASE	\$ 300,000.00
ESWL-WSO 21 STANDARD BASE	\$ 300,000.00

[illegible]

50%	\$	67.50	Removed
50%	\$	67.50	Removed
50%	\$	67.50	Removed
50%	\$	67.50	Removed
50%	\$	10.00	Removed
50%	\$	10.00	Removed
50%	\$	10.00	Removed
50%	\$	10.00	Removed
50%	\$	10.00	Removed
50%	\$	10.00	Removed
50%	\$	12,500.00	Removed
50%	\$	12,500.00	Removed
50%	\$	25,000.00	Removed
50%	\$	25,000.00	Removed
50%	\$	12,500.00	Removed
50%	\$	12,500.00	Removed
50%	\$	25,000.00	Removed
50%	\$	25,000.00	Removed
50%	\$	25,000.00	Removed
50%	\$	25,000.00	Removed
50%	\$	100,000.00	Removed
50%	\$	25,000.00	Removed
50%	\$	25,000.00	Removed
50%	\$	80,000.00	Removed
50%	\$	40,000.00	Removed
50%	\$	100.00	Removed
50%	\$	100.00	Removed
50%	\$	32.50	Removed
50%	\$	32.50	Removed
50%	\$	12.50	Removed
50%	\$	12.50	Removed
50%	\$	17.50	Removed
50%	\$	17.50	Removed
50%	\$	116,705.00	Removed
50%	\$	158,600.00	Removed
50%	\$	116,705.00	Removed
50%	\$	158,600.00	Removed
50%	\$	45,305.00	Removed
50%	\$	66,600.00	Removed
50%	\$	45,305.00	Removed
50%	\$	66,600.00	Removed
50%	\$	12.50	Removed
50%	\$	12.50	Removed
50%	\$	12.50	Removed
50%	\$	40,000.00	Removed
50%	\$	40,000.00	Removed
50%	\$	53.01	Removed
50%	\$	10.60	Removed
50%	\$	38,500.00	Removed
50%	\$	21,657.50	Removed
50%	\$	21,657.50	Removed
50%	\$	21,657.50	Removed
50%	\$	2,372.50	Removed
50%	\$	2,372.50	Removed
50%	\$	2,372.50	Removed
50%	\$	38,500.00	Removed

50%	\$	55.00	Removed
50%	\$	55.00	Removed
50%	\$	55.00	Removed
50%	\$	11.00	Removed
50%	\$	11.00	Removed
50%	\$	11.00	Removed
50%	\$	38,500.00	Removed
50%	\$	38,500.00	Removed
50%	\$	38,500.00	Removed
50%	\$	11,550.00	Removed
50%	\$	38,500.00	Removed
50%	\$	11,550.00	Removed
50%	\$	5,500.00	Removed
50%	\$	185,517.50	Removed
50%	\$	55.00	Removed
50%	\$	11.00	Removed
50%	\$	199,990.00	Removed
50%	\$	55.00	Removed
50%	\$	55.00	Removed
50%	\$	55.00	Removed
50%	\$	55.00	Removed
50%	\$	55.00	Removed
50%	\$	199,990.00	Removed
50%	\$	199,990.00	Removed
50%	\$	199,990.00	Removed
50%	\$	7,200.00	Removed
50%	\$	17.00	Removed
50%	\$	57.00	Removed
50%	\$	171.00	Removed
50%	\$	17.00	Removed
50%	\$	57.00	Removed
50%	\$	171.00	Removed
50%	\$	11.50	Removed
50%	\$	38.00	Removed
50%	\$	114.00	Removed
50%	\$	51,200.00	Removed
50%	\$	179,200.00	Removed
50%	\$	396,800.00	Removed
50%	\$	691,200.00	Removed
50%	\$	1,216,000.00	Removed
50%	\$	2,073,600.00	Removed
50%	\$	38,400.00	Removed
50%	\$	115,200.00	Removed
50%	\$	268,800.00	Removed
50%	\$	435,200.00	Removed
50%	\$	768,000.00	Removed
50%	\$	1,382,400.00	Removed
50%	\$	2,764,800.00	Removed
50%	\$	1,728,000.00	Removed
50%	\$	12,800.00	Removed
50%	\$	121,600.00	Removed
50%	\$	204,800.00	Removed
50%	\$	275,200.00	Removed
50%	\$	422,400.00	Removed
50%	\$	665,600.00	Removed

50%	\$ 902,400.00	Removed
50%	\$ 179,200.00	Removed
50%	\$ 1.00	Removed
50%	\$ 0.50	Removed
50%	\$ 6,400.00	Removed
50%	\$ 0.50	Removed
50%	\$ 179,200.00	Removed
50%	\$ 6,400.00	Removed
50%	\$ 0.55	Removed
50%	\$ 0.50	Removed
50%	\$ 100.00	Removed
50%	\$ 150,000.00	Removed
50%	\$ 150,000.00	Removed



IP Router - IPR SERVICES		
Part No	Description	Metric
INSTALLATION AND IMPLEMENTATION		
301071247	Technical Project Manager	per hour

OPTICAL SERVICES		
Part No	Description	Metric
INSTALLATION AND IMPLEMENTATION		
301071247	Technical Project Manager	per hour
RESIDENT ENGINEER		
300783339	Optical Resident Engineer - 1 Year	per person
FIELD CORRECTIVE MAINTENANCE		
300865524	Field Corrective Maintenance (FCM) 24x7x4 hrs.	per network
300865540	Field Corrective Maintenance (FCM) 24x7x NBD	per network

Price	Status
\$ 225	Removed

Price	
\$ 225	Removed
\$ 350,000	Removed
Custom	Removed
Custom	Removed



IP Routing Maintenance		
Part No	Description	Metric
3HE14107AA	SRS Annual Fee - DEEPFIELD	% of sell price (per year)
3HE10161CA	SRS Annual Fee - Routing - NSD-NRC	% of sell price (per year)
3HE10161EA	SRS Annual Fee - Wireless - NSD-NRC	% of sell price (per year)
3HE12103AA	SRS Annual Fee - VSAP	% of sell price (per year)
3HE13428AA	SRS Annual Fee - VNO	% of sell price (per year)

			Status
MSRP	Discount %	Unit Price	
		Price per Year	
20.0%	-	20.0%	Removed
20.0%	-	20.0%	Removed
20.0%	-	20.0%	Removed
20.0%	-	20.0%	Removed
20.0%	-	20.0%	Removed



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