

NetSys-5311 RUGGED CISCO ESR-6300 ROUTER

FIREWALL, COMPACT MOBILE, IP ROUTER WITH POE+ SUPPORT

DESCRIPTION

The rugged design of the NetSys-5311 brings Cisco's ESR-6300 Embedded Services Router and its Cisco-certified mobile IP routing protocols to the network edge or wherever you need it, in a SWaP optimized chassis. The ESR-6300 delivers IP-based data, voice and video to mobile users in a range of mission-critical applications with the fast and secure network performance that only Cisco can provide.



Functional Features

- Cisco IOS XE is highly programmable, with open and standards-based APIs and next-generation, multilayer security built-in
- ARM Quad-Core A72 CPU, 1200MHz
- 4GB DDR4 memory capacity (32-bit + 4-bit ECC)
- 4GB usable (pSLC mode) eMMC flash
- Anti-counterfeit chip and Secure Boot
- Hardware ready to support SD-WAN, in the near future you will be able to leverage IT expertise to a distributed network, and operate at scale
- Hardened for extreme temperatures, shock and vibration to achieve the highest standard of reliability
- 2 WAN combo ports and 4 LAN ports of Gigabit Ethernet, and optionally either copper or fiber. Optional mSATA storage for the processor is available
- IEEE802.3at Type 1(POE) and Type 2 (POE+) 120W built-in PSE
- 60GB Flash storage with additional expansion capability
- Onboard temperature sensors, power consumption and voltage monitoring
- Hardware-accelerated encryption, IPSec, VPN, and Cisco firewall functions

APPLICATIONS

The NetSys-5311 brings Cisco Mobile Ready Net capabilities to mobile and fixed IP based network routing capability deployed in harsh environments encountered in drilling and mining operations, commercial air and ground transport infrastructure, energy distribution, mobile ground, ship board and air defense equipment, homeland security and emergency services.

RELATED PRODUCTS

- › Complete line of small form factor chassis systems for a wide range of applications and environments
- › Standards-based I/O cards for connectivity configuration
- › Storage solutions to meet most usage requirements across a range of applications.



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SPECIFICATIONS

Environmental

MIL-STD-704F

Input transient protection in normal and abnormal operating mode (MIL-HDBK-704-8 : LDC102, LDC103, LDC104, LDC105, LDC301)

Emergency operation (MIL-HDBK-704-8 : LDC401)

Grounding and phase reversal protection (MIL-HDBK-704-8 : LDC 602)

Power interruption (MIL-HDBK-704-8 : LDC601)

MIL-STD-1275D

Surge and Spike protection (Imported and Exported) in normal operating mode

Surge and Spike protection (Imported and Exported) in generator operating mode Ripple Voltage Imported

MIL-STD-461G

Conducted susceptibility (CS101, CS114, CS115, CS116)

Radiated emission (RE102, RS103)

Conducted emission (CE101, CE102)

MIL-STD-810H

Operating temperature: - 40°C to 71°C (MIL-810G, Methods 501.502)

Storage temperature: - 40°C to 85°C (MIL-810G, Methods 501.502)

Operating shock: 40g, 11ms, 3 pos/neg per axis, 18 terminal peak sawtooth pulses (MIL-STD-810H, Method 516.8, Procedure V)

Crash Hazard Shock: 75g, 11ms, 2 pos/neg per axis, 12 terminal peak sawtooth pulses (MIL-810H, Method 516.8, Procedure V)

Random vibration: 10Hz to 2000Hz, 3 axes, 1 Hour/Axis (MIL-STD-810H, Method 514.8, Procedure I)

Humidity: Up to 95% RH @, Non-condensing (MIL-STD-810H, Method 507.6, Procedure II)

Ingress, sand and dust: No ingress (IP67) (MIL-STD-810H, Method 510.7, Procedure I and II)

Water immersion: No leakage (IP67) (MIL-STD-810H, Method 512.6, Procedure II)

Operational Altitude: Up to 15,000 feet (4,572 meters) (MIL-STD-810H, Method 500.6)

Storage Altitude: Up to 40,000 feet (12,192 meters) (MIL-STD-810H, Method 500.6)

RTCA DO-160G

Electrostatic Discharge, Category A

MIL-STD-464C

Electrical Bonding

I/O Connections

2x 10/100/1000 WAN ports

4x 10/100/1000 LAN Ports

RS-232 and USB 2.0 console ports

1x USB 3.0 HOST INTERFACE (High speed 10GHz connector)

1x Isolated Zeroization Signal

1x RS-232 DTE Terminal

1x Alarm Input

mSATA, SATA 3.0 Drive (Optional)

RTC Battery (20 year lifespan)

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Physical

Dimensions (H|W|D): 89mm x 190mm x 213mm (3.5" x 7.5" x 8.4")

Actual weight: 6.5lbs. (2.95Kg)

Cooling: Passive. No fans

Circular MIL-DTL-38999 connectors

Power

Input power: 16.5V to 36V DC, 28V <15W nominal

<15W power consumption

Over-voltage protection, Reverse polarity protection, & Galvanic isolation of 1500V

Power over Ethernet (NetSys-5311 Only)", with IEEE802.3 at Type 1(POE) and Type 2 (POE+) 120W built-in PSE

ORDER INFORMATION

Description

Model Number

NetSys 5311 including:
 IOS Software requirements, Cisco IOS XE Software: Universal Cisco
 iLOS Software image, Cisco IOS XE Software Release 17.1.1 or later

NTS53ZUUX102YXXZ-POE

II/O Cable Kit

NetSys-5311-CBL

PERFORMANCE TIERS AND SOFTWARE PACKAGES

Throughput

Network Essentials

Network Advantage

Default (50 Mbps)

SL-6300-NE/DEF-K9

SL-6300-NA/DEF-K9

Performance (250 Mbps)

SL-6300-NE/PERF-K9

SL-6300-NA/PERF-K9

Boost (350 Mbps)

SL-6300-NE/BOOS-K9

SL-6300-NA/BOOS-K9

SOFTWARE OPTION

HSEC license

Part Number

Cisco Unified Communications Manager Express – 1 seat

CME-UL

BOOST LICENSE REQUIREMENT

HSEC license

Part Number

High-security license, required with Boost license

L-63-HSEC-K9

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