# D135OXB Box PC



## Feature

- IP65 BOX PC (IP67 by request)
- Either 8x GMSL2 (Z-code) or 4x M12 (X-Code) PoE 802.3af
- 2x M12 X-Code for GbE with PoE 802.3af
- 1x M12 A-Code (Isolated CAN BUS 2.0 Port With Transceiver, 2 port, Engineering Port)
- 2x M20 USB 5Gbps (Type A), 1x Vent Plug
- 1x M12 A-Code 12pin (4x GPI & 2x GPO & 1x RS485, Engineering Port), 1x M12 B-Code 5pin Power Input

## Specifications

| | |
|---|---|
| Model | D135OXB |
| Type | IP65 Box PC (IP67 by request) |
| NVIDIA GPU SoC Module Compatibility | NVIDIA® Jetson Orin NX 16G |
| Indication | 2x Single LED |
| External I/O (waterproof) | Either 8x GMSL2 (Z-code) or 4x M12 (X-Code) PoE 802.3af |
| | 2x M12 X-Code for GbE with PoE 802.3af |
| | 1x M12 A-Code (Isolated CAN BUS 2.0 Port With Transceiver, 2 port, Engineering Port) |
| | 2x M20 USB 5Gbps (Type A) |
| | 1x M12 A-Code 12pin (4x GPI & 2x GPO & 1x RS485, Engineering Port) |
| | 1x M12 B-Code 5pin Power Input |
| | 6x ANT (2 for 4G/5G, 2 for Wi-Fi, 2 for GNSS, Antenna is optional) |
| | 1x Vent Plug (Pressure Equalization/Liquid Protection/Condensation Prevention/Gas Venting/Dust Protection) |
| Internal Slot | 1x M.2 M key 2280 (256GB NVMe SSD pre-installed)<br>( *The SSD capacity for the 6x POE SKU is limited to a maximum of 2TB)<br>1x M.2 E key 2230 (WIFI, optional)<br>1x M.2 B key 3042 (4G) LTE module or 3052 (5G) module (optional)<br>1x mPCIe slot (optional for GNSS or GNSS RTK module) |
| Repair Area with an Access Panel with O ring for waterproof | 1x Recovery mode push button<br>1x DIP switch for CAN terminal selection<br>1x USB 3.1 Type-A port<br>1x GbE RJ45 port<br>1x HDMI type A port (4Kp60)<br>1x USB-C (BSP flash), 1x USB-C UART port (Debug)<br>2x Micro SIM card slot (4G/LTE/5G), Only support in Dual SIM Single Standby (DSSS) mode, the limitation is from EM05(4G) |
| Out-of-Band (Optional) | AVerMedia OOB API & Solution (NCSI) |
| Super Capacitor | Super Capacitor (400W/sec) |
| Operating Temperature | -40°C ~ 70°C (8x GMSL + 2x POE)<br>-40°C ~ 60°C (6x POE)<br>(*The system requires approximately at least 10 minutes of warmup time when operating at an ambient temperature of -40°C before it can be powered on.) |
| Storage Temperature | -40°C ~ 85°C |

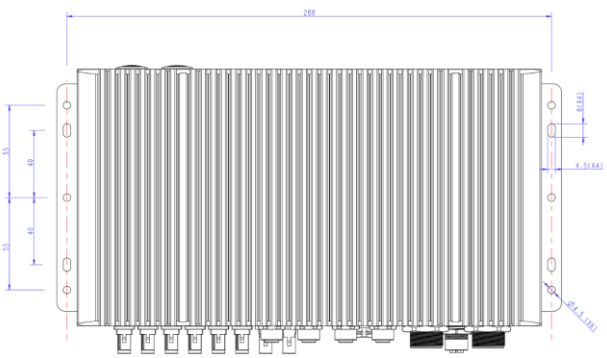
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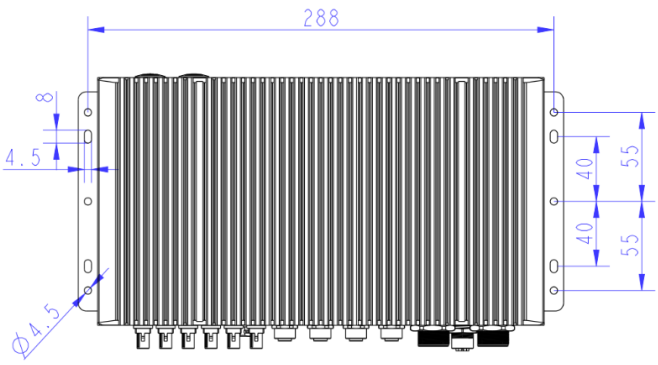
## Specifications

| | |
|---|---|
| Relative humidity | 40 °C @ 95%, Non-Condensing |
| Power requirement | DC Input Range 9-36V DC input with Power Ignition Controller |
| RTC Battery | Support RTC battery and Battery Life Monitoring by MCU |
| Verification | MIL-STD-810H for shock & vibration |
| Mechanical Info | W: 300mm * L: 153mm* H: 103mm, Weight: 4.9Kg |
| Certifications | CE, FCC, KC |
| Package | 1x D135OXB (256G SSD pre-installed) |
| Adaptor/Power Cord | N/A |

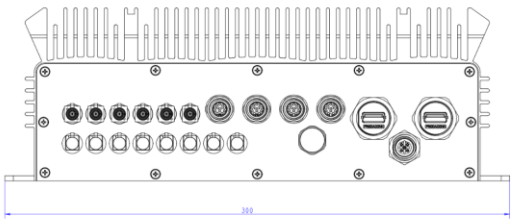
## Dimensions

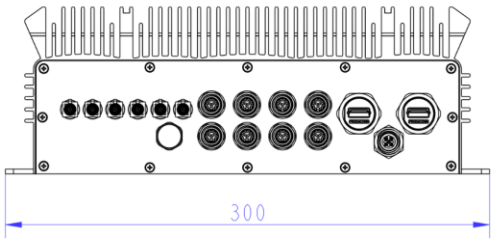


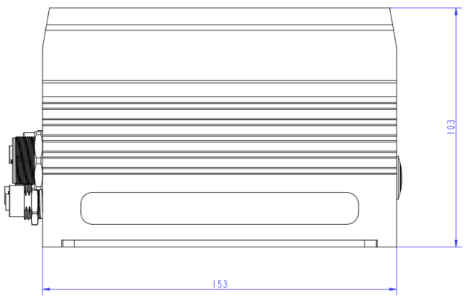
8x GMSL

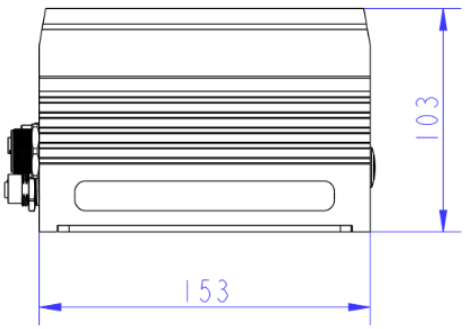



6x PoE



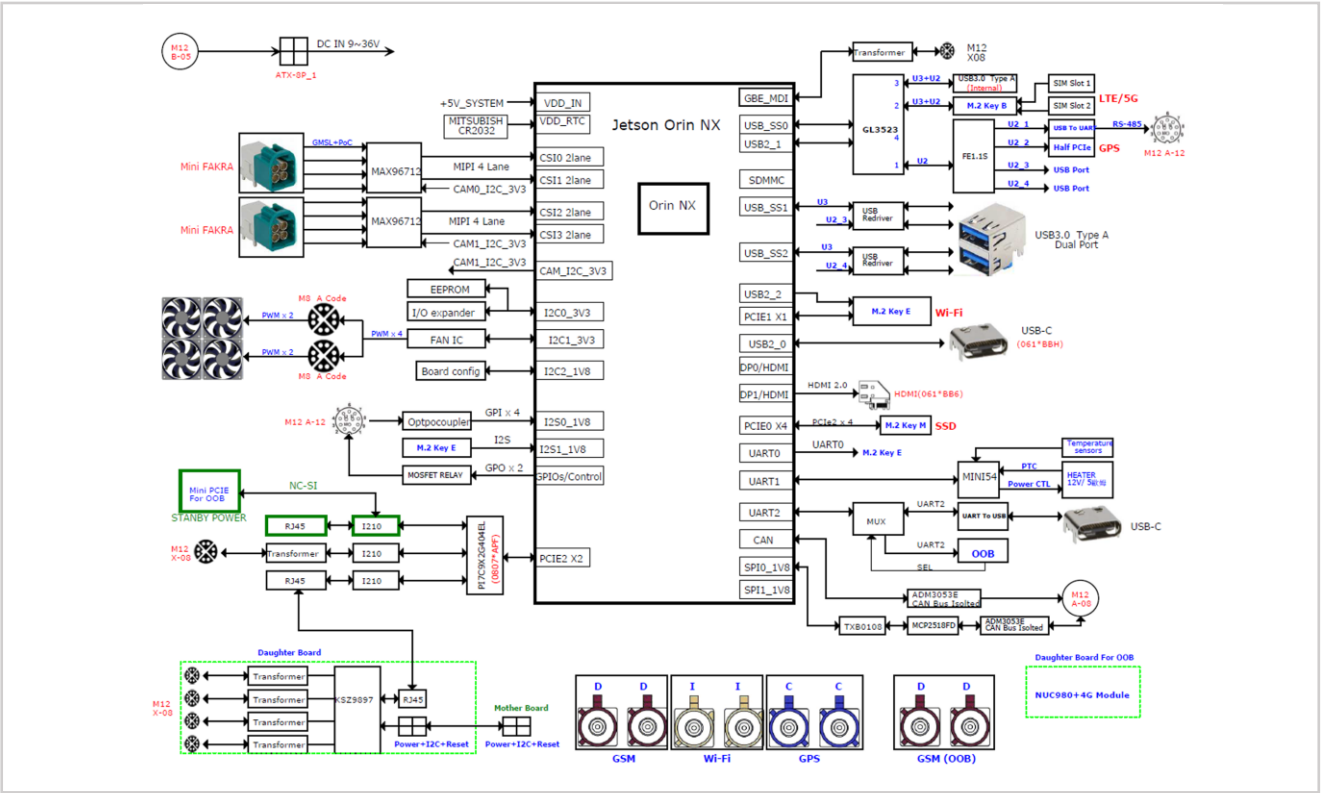




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## Block Diagram




## Ordering information

| Model | SKU Number | Part Number | NVIDIA SOM | SSD | GMSL2/POE | IP rate | Wi-Fi | 4G/5G | OOB |
|---|---|---|---|---|---|---|---|---|---|
| D135 | D135OXB-16G-004 | 61D135OXB1AH | Orin NX 16G | 256G | 8x GMSL2 + 2x POE | IP65 | W/O | W/O | W/O |
| D135 | D135OXB-16G-008 | 61D1350001AF | Orin NX 16G | 256G | 6x POE | IP65 | W/O | W/O | W/O |

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## Optional Accessories

| Part Number | Product Name | Type | Description |
|---|---|---|---|
| Please contact RBU sales | IP67/69K Camera | Camera | oToBrite: oToCAM222-H61M、oToCAM222-C120M、oToCAM222-S195M、oToCAM223-H61M、oToCAM223-C120M、oToCAM223-S195M |
| 0700WLAN0AWX | Wi-Fi Module | M.2 E key 2230 | Intel® Wi-Fi 6E AX210 (-40°C ~ 85°C) |
| 60D3150000AE | 4G LTE Cat4 | M.2 B key 3042 | Quectel EM05-G (-40°C ~ 85°C) |
| 60D3150001AD | 5G | M.2 B key 3052 | Quectel RM520N-GL (-40°C ~ 85°C) |
| 61D1350001AK | RTK GPS module | mPCIE | ublox F9P+F9H (-40°C ~ 85°C) |
| 61D1350001AS | RTK GPS module | USB wafer | ublox F9P+F9H (-40°C ~ 85°C) |
| 60D1350001AB | 5 in 1 Combo External Antenna | FAKRA | IP67 Supports 4G/5G + Wi-Fi + Single GNSS (-40°C ~ 85°C) , 3m(300cm) |
| 60D1350001AD | GNSS External Antenna | FAKRA | IP67 Single GNSS Antenna with magnet (C-Code) (-40°C ~ 85°C) , 3m(300cm) |
| 60D1350001AC | 4G/5G External Antenna | FAKRA | IP67 Single 4G/5G Antenna (D-Code) (-40°C ~ 85°C) , 3m(300cm) |
| 61D135OB01AV | OOB module (NCSI) | Wafer | OOB BOARD Module + Cable (-40°C ~ 85°C) |
| By Region | Adapter | DC JACK | FSP 12V/5A for 8x GMSL + 2x POE (For PoC only) |
| By Region | Adapter | DC JACK | FSP 12V/10A for 6x POE (For PoC only) |
| 60D1350001AE | M12 Power Cable | M12 5 pin to DC JACK | M12 5 pin to DC JACK B-Code male (POWER), 1m(100cm) |
| 60D1350001AF | M12 POE to RJ45 Cable | M12 8 pin to RJ45 | M12 8 pin X-Code POE to RJ45 Cable, 1m(100cm) |

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