

PE2200U

Intel® Core™ Ultra processor 100U series, DDR5 5600MHz, DisplayPort, HDMI, dual-LAN, multiple USB and COM ports, and 9-36V DC-in

Features

- Intel® Core™ Ultra processor 100U series, with up to 64 GB DDR5
- Rich I/O with 2 x LAN, 7 x USB and 4 x COM
- Rich expansion capacity including PoE, CAN-bus and COM ports modules
- Wide voltage range: 9 to 36V
- Wide operating temperature range: -20°C to 60°C

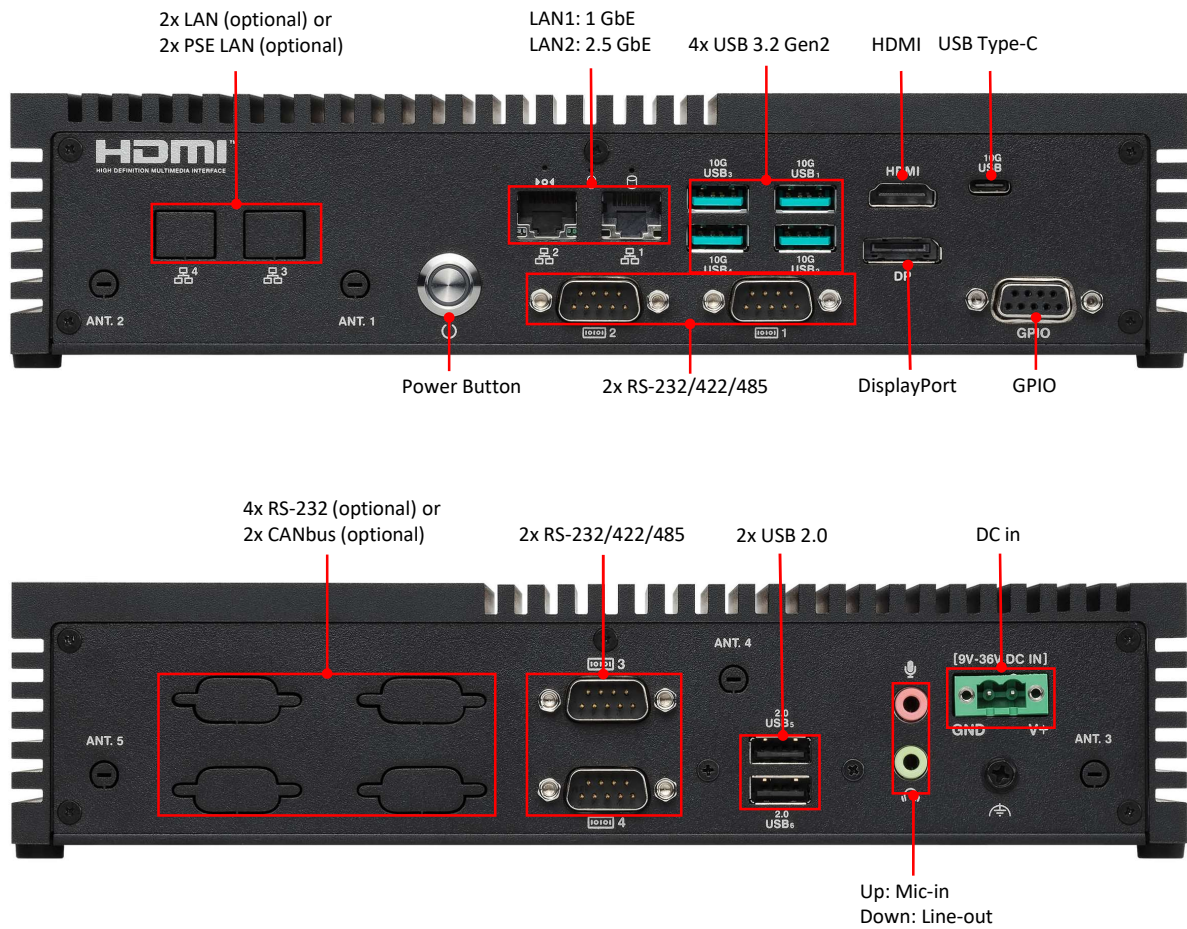


Specifications

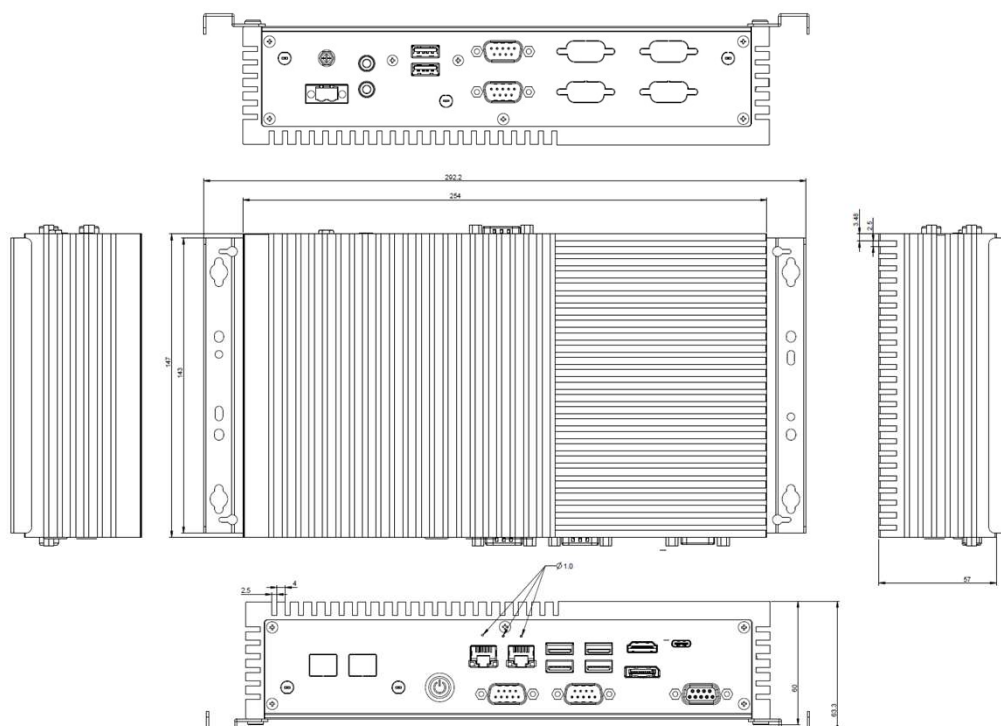
| | | Intel® Core™ Ultra 7 processor | Intel® Core™ Ultra 5 processor |
|-----------------------|-------------------|--|--------------------------------|
| | | System | CPU |
| | TDP | 15W | 15W |
| | # of Cores | 12 | 12 |
| | Base Freq. | 1.7GHz | 1.6GHz |
| | Max Turbo Freq. | 4.9GHz | 4.4GHz |
| | Memory | 2 x SO-DIMM, DDR5 supports up to 5600 MHz, max 64 GB | |
| I/O Interfaces | Display | 1 x HDMI 2.0, supports up to 4096 x 2160 @ 60 Hz 1 x DP 1.4, supports up to 5120 x 3200 @ 60 Hz | |
| | Ethernet | 1 x 1 GbE, RJ45 (LAN1: Intel® i219-LM) 1 x 2.5 GbE, RJ45 (LAN2: Intel® i226-IT) 2 x 1 GbE, RJ45 (Intel® i210-IT, supports IEEE 802.3af, PSE, optional) | |
| | USB | 4 x USB 3.2 Gen 2 (10Gbps) 1 x USB 3.2 Gen2 Type-C (10Gbps, with ALT mode/ DP) 2 x USB 2.0 | |
| | COM | 4 x RS-232/422/485 | |
| | GPIO | 1 x 8bit GPIO, DB9 (Female) | |
| Storage | 2.5" SATA | 1 x 2.5" HDD/SSD | |
| | M.2 M Key | 1 x M.2 2280 M key socket (PCIe G4x4) | |
| Expansion Slot | M.2 E Key | 1 x M.2 2230 E key socket (PCIe x1/ USB2.0) | |
| | M.2 B Key | 1 x M.2 3042/3052 B key socket with nano-SIM slot (PCIe x1/ USB 2.0) | |
| Power | Power input | 9 to 36 V DC-in, 2-pin terminal block | |
| Mechanical | Mounting | Wall-mount (Din Rail/ VESA mount optional) | |
| | Dimensions | 254 (H) x 147 (W) x 57 (D) mm | |
| | Weight | 1.93 kg | |
| Environment | Operating Temp. | -20° C to 60° C ¹ | |
| | Storage Temp. | -40° C to 85° C | |
| | Relative Humidity | 10 to 95% (non-condensing) | |
| | EMC | CE, FCC, IC, BSMI | |
| | Safety | CE-LVD, UKCA, CB, BSMI, CCC | |
| | Vibration | Operating: MIL-STD 810H Method 514.8, Category 4 & 3Grms, 5-500 Hz, 3 Axes | |
| | Shock | Operating: MIL-STD 810H Method 516.8, Procedure I, Table 516.6-II; 40 G 11ms | |
| Green | GA (RoHS) | | |
| Security | TPM | TPM-SPI-A powered by Infineon SLB9672 (optional) | |
| Others | Watchdog timer | Supported | |
| | OS | Windows® 10 IoT Enterprise (64-bit) / Linux by Project support | |

1. For wide temperature demand, the industrial memory & storage are required; Ambient with air flow.

Appearance



Dimension (mm)



Ordering Information

| SKU | CPU | SO-DIMM | LAN | PoE | 2.5" SATA | COM | USB | M.2 E-key | M.2 B-key | M.2 M-key | OP Temp. |
|--------------|-----------------|---------|-----|-----|-----------|-----|----------------|----------------|----------------|----------------|-----------------|
| Standard SKU | Core™ Ultra 5/7 | 2 | 2 | - | 1 | 4 | 7 ¹ | 1 ² | 1 ³ | 1 ⁴ | -20~60°C/0~40°C |
| FULL LAN SKU | Core™ Ultra 5/7 | 2 | 4 | - | 1 | 4 | 7 ¹ | 1 ² | - | 1 ⁴ | -20~60°C/0~40°C |
| PoE SKU | Core™ Ultra 5/7 | 2 | 2 | 2 | 1 | 4 | 7 ¹ | 1 ² | - | 1 ⁴ | -20~60°C/0~40°C |

* The part number might vary for different regulations and package. Please consult the local sales representative for the exact 90PN.

* Please check with your importer or integrator for system level certification.

1. USB Type-C included
2. Wi-Fi module
3. 4G/5G module or LAN module or 4x RS-232 module
4. NVMe or 2x CAN-bus module

Packing List

| Description | Qty |
|------------------------------|-----|
| Wall mount bracket | 2 |
| Wall mount screw pack | 1 |
| SATA 22P to SATA 7P+4P Cable | 1 |
| SSD screw pack | 1 |

Optional Accessories

| Item | Description |
|-------------------|--|
| ADAPTER | |
| | Power adapter, 150W 19V, input voltage 100 to 240VAC, output voltage 19VDC with 7.89A DC load, 0 to 60°C operating temperature |
| POWER CORD | |
| | Power cord with United States (US) plug |
| | Power cord with Europe (EU) plug |
| | Power cord with China (CN) plug |
| | Power cord with Australia (AU) plug |
| | Power cord with United Kingdom (UK) plug |
| | Power cord with Korea (KR) plug |
| | Power cord with Taiwan (TW) plug |