

PE2300U

Intel® Core™ Ultra processor (Series 2), DDR5 6400MHz, DisplayPort, HDMI, dual-LAN, multiple USB and COM ports, and 9-36V DC-in

Features

- Intel® Core™ Ultra processor (Series 2), 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

System	CPU	Intel® Core™ Ultra 7 processor 265U	Intel® Core™ Ultra 5 processor 235U
	TDP	15W	15W
	# of Cores	12	12
	Base Freq.	2.1GHz	2GHz
	Max Turbo Freq.	5.3GHz	4.9GHz
	Memory	2 x SO-DIMM, DDR5 supports up to 6400 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	
	Audio	1 x Mic-in, phone jack 1 x Line-out, phone jack	
	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	
	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® 11 IoT Enterprise (64-bit) 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.

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