

PE2100S

Intel® Atom® Processors x7000RE Series with rugged fanless edge computer supports wide operating temperatures with low power consumption.

Features

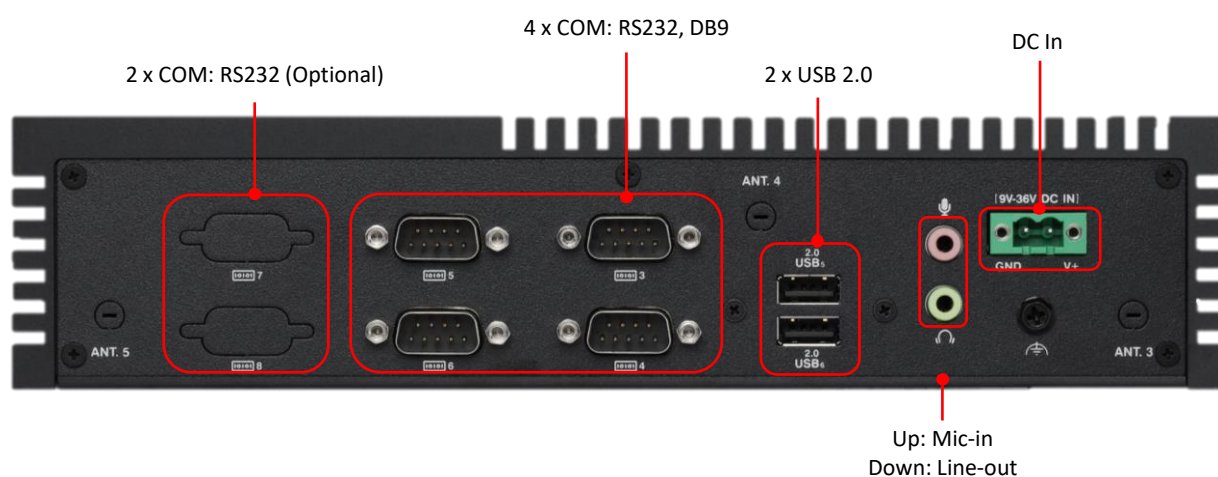
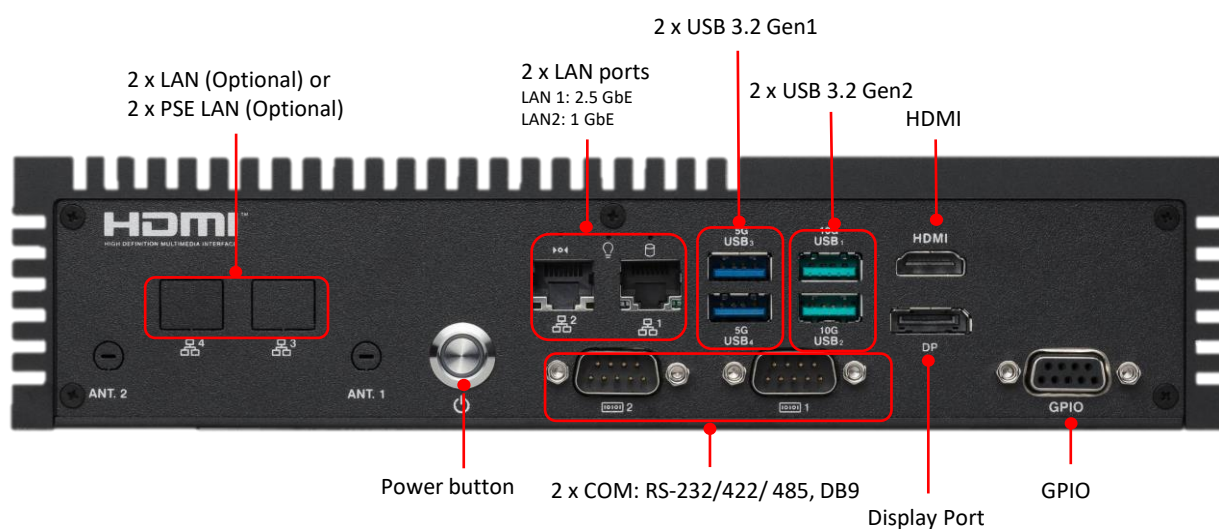
- Intel® Atom® Processors x7000RE Series
- DDR5-4800 SO-DIMM memory support 16G
- Rich IO support, up to four LAN ports, eight COM ports, six USB ports
- Rich expansion capacity including LAN, PoE and COM ports module
- 20°C to 70°C extended operating temperature
- Comply with MIL-STD 810H, and withstand up to 5 Grms vibration



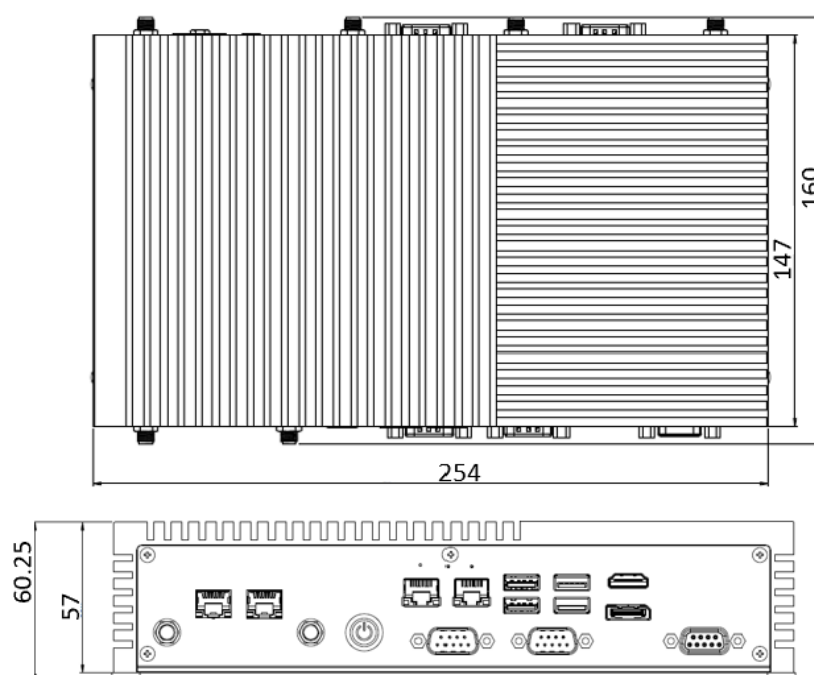
Specifications

	CPU	Intel® Atom® x7211RE	Intel® Atom® x7213RE	Intel® Atom® x7433RE	Intel® Atom® x7835RE
System	TDP	6W	9W	9W	12W
	# of Cores	2	2	4	8
	Core Base Freq.	1.0 GHz	2.0 GHz	1.5 GHz	1.3GHz
	Max Turbo Freq.	3.2 GHz	3.4 GHz	3.4 GHz	3.6 GHz
Memory	Memory	1 x SO DIMM, DDR5 4800 MHz, supports up to 16GB			
Storage	2.5" SATA	1 x SATA 6Gb/s connector supports 2.5" SSD			
	M.2 M Key	1 x M.2 2242/2280 M key socket (SATA/ PCIe Gen3x1)			
External Interfaces	Display	1 x HDMI 2.0, supports up to 4K x 2K @ 60 Hz 1 x DP1.4 supports up to 4096 x 2304 @ 60 Hz			
	Ethernet	1 x 2.5 GbE, RJ45 (LAN1: Intel i226-IT) 1x 1 GbE, RJ45 (LAN2: Intel i210-IT) 2 x 802.11af PSE ports, RJ45 (optional)* 2 x 10/100/1000 ethernet ports , RJ45 (optional)* *either one			
	USB	2 x USB 3.2 Gen2 2 x USB 3.2 Gen1, type A 2 x USB 2.0, type A			
	Audio	1 x Mic-in, phone jack 1 x Line-out, phone jack			
	COM	2 x COM: RS-232/422/485, DB9 (COM1/COM2) 4 x COM: RS-232, DB9 (COM3/COM4/COM5/COM6) 2 x COM: RS-232 (COM7/COM8, optional)			
	GPIO	1 x 8bit GPIO, DB9			
Expansion	M.2 B key	1x M.2 2242/3042/3052 B key for 4G/5G/COM/LAN and PoE Expansion (PCIe/USB2.0/USB3.2 Gen2)			
	M.2 E Key	1 x M.2 2230 E key socket (USB2.0/PCIe) supports WiFi /BT / TPU module			
	SIM	1 x Nano-SIM slot (on-board)			
Power	System Power	9 to 36 V DC, 2-pin terminal block			
	Power Supply	150W (optional)			
Mechanical	Mounting	Wall mount/ Din-rail (optional)			
	Dimension	254 x 147 x 57 mm			
	Weight	2.45 kg			
Environment	Operating Temp.	-20~70°C with wide temperature part, fanless 0~50° with commercial temperature part, fanless			
	Storage Temp.	-40~85°C			
	Relative Humidity	10 to 95% (non-condensing)			
	EMC	CE, FCC, UKCA, RCM, IC, BSMI			
	Safety	CB, CE-LVD, BSMI			
	Vibration	Operating: MIL-STD-810H, Method 514.8 , Category 4 (Truck transportation over US highways) ; 5-500 Hz (Max. 5Grms), 3 Axes			
	Shock	Operating: MIL-STD 810H Method 516.8, Procedure I, Table 516.6-II; 40G 11ms			
Security	Green	GA (RoHS)			
	TPM	TPM-SPI-A powered by Infineon SLB9672 (optional)			
Others	OS	AWS IoT Greengrass Windows® 11 IoT Enterprise 24H2 LTSC / Linux by Project support			
	Watch dog timer	Supported			
	Software Compatibility	AWS IoT Greengrass			

Appearance



Dimension (mm)



Ordering Information

SKU	CPU	RAM	2.5" SATA	LAN	PoE	M.2 B-key	M.2 E-key	M.2 M-key	COM	USB
Standard SKU	Atom® x7000RE	1	1	2	--	1 ¹	1 ²	1 ³	6	6
FULL LAN SKU	Atom® x7000RE	1	1	4	--	--	1 ²	1 ³	6	6
PoE SKU	Atom® x7000RE	1	1	2	2	--	1 ²	1 ³	6	6

* COM7/COM8 could support RS232 (optional)

1. M.2 B-key: 4G module or 5G module or 2x RS-232 module or POE/LAN module
2. M.2 E-key: BT/WIFI module or TPU module
3. M.2 M-key: M.2 SSD (SATA/PCIe Gen3x1)

- 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.

Packing list

Description	Qty
Wall mount bracket	2
SATA 22P to SATA 7P+4P 15+12CM	1
2.5 HDD screw pack	1

Optional Accessories (purchased separately)

Part Number	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