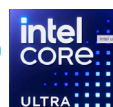


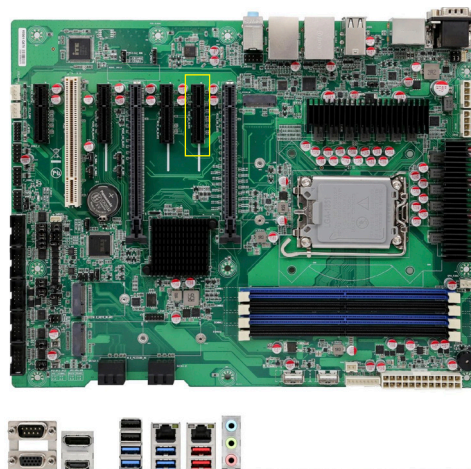
WSA-87Q1-4U

High-Performance Intel 15th Gen Ultra 9/7/5 4U Industrial System



Features

- Hyper high performance 4U Industrial PC
- Intel® Arrow Lake-S Series with Q870
- 4 DDR5 5600 MT/s non-ECC UDIMM slots up to 192GB
- 2* GbE LAN with RJ-45
- 1 PCIe x8 Signal (Gen 5), 1 PCIe x8 Signal (Gen 4) Slot, 4 PCIe x4 (Gen 4) Slot and 1 PCI slot
- 1 PCIe x16 Signal (Gen 5), 4 PCIe x4 (Gen 4) Slot and 1 PCI slot for WSA-87Q1-4U-01 SKU
- 1* M.2 M key 2280, 4 SATA 3.0 for storage
- SMBus, I2C, PMBus, iAMT 19.x, Chassis Intrusion
- 6 USB 3.2, 7 USB 2.0



Specifications

Chassis	4U Rackmount
Disk Drive Bay	External: 2* 5.25" & 1* 3.5" HDD bay Internal: 6+ 2* 3.5" HDD bay
LED Indicators	Power, HDD
Colour	Beige
Dimensions	L450*W430*H177mm
System Power supply	Option 500W / 600W / 700W
Processors	Intel® Core™ Ultra Processors (Series 2), LGA1851 Support MAX CPU TDP: 125W
Chipset	Intel Q870 Express
Memory	4x 288-pin UDIMMs Dual-channel DDR5 non-ECC 5600 MT/s Up to 192GB
Storage	4x SATA 3.0 (RAID 0/1/5/10) 1x M.2 M-Key 2280, PCIe x4/SATA, support NVMe/SATA SSD, Auto detect (Signal Shared by PCIe_4X_Slot 1) 1x M.2 M-Key 2280, PCIe x4 Notes: BOM Option support M.2_PCISSD_M2. PCIe Gen4 x4 Signal for M.2PCIe SSDM2 co-lay with PCIe 4X SLOT1
BIOS	AMI UEFI
Display	3 independent displays VGA up to 1920 x 1200 @60Hz; HDMI up to 4096 x 2160 @60Hz; DP++ up to 4096 x 2160 @60Hz
Ethernet Controller	1x Intel® i219V GbE Ethernet Controller 1x Intel® i210AT GbE Ethernet Controller
Serial	6 x RS-232; DB9/M, COM1; Box Header, COM2-6 Notes: COM3 BOM optional support RS485/RS422. COM4 BOM optional support RS485
USB	4x USB3.0 Type-A; 2x USB3.2 Type-A; 2x USB2.0 Type-A 2x Vertical USB2.0 TYPE-A, 3x USB 2.0 Header
AUDIO	Realtek® ALC897 Audio Codec; Line-Out + Line-in + MIC Φ3.5mm Jack
Other	1x SMBUS fTPM2.0; ;Notes: BOM optional support dTPM (SLB9670, TPM2.0).
GPIO	4* GPI+ 4* GPO, non-isolated 5V
Expansion Slot	1x PCIe x16 slot, X8 Signal Gen5 1x PCIe x16 slot, X8 Signal Gen4 3x PCIe4 Gen 4.0 slots 1x PCIe4 Gen 4.0 slot (Signal Shared by M.2 M-Key Slot (PCIe x4/SATA, 2280)) 1x PCI slot 1x M.2 E-Key 2230, PCIe + USB2.0, support WIFI + Bluetooth
Watchdog Timer	256-level Watchdog Timer
Motherboard Power input	ATX-Power 24P, 12V-8P
Environment	Operating Temperature : 0°C ~60°C Storage Temperature : -20~85°C Operating Humidity : 5%~95% · non-condensing
OS	Windows 10 IoT Enterprise 2021 LTSC (64-bit); Windows 11 IoT Enterprise 24H2 LTSC (64-bit); Linux (Support by request)

Ordering Information

Model name	Description
WSA-87Q1-4U	4U Rackmount IPC system with Intel Q870 Express ATX motherboard, 2* LAN, 6* RS-232, 8bit GPIO, 1* M.2 2280 slots, 2* PCIe 8X Signa, 4* PCIe 4X Gen 4.0 and 1* PCI Slot

Optional Accessories

Item	Description
	If you need to buy processors, HDD/SSD, power supply, CPU cooler, system memory and other accessories, please contact us.