

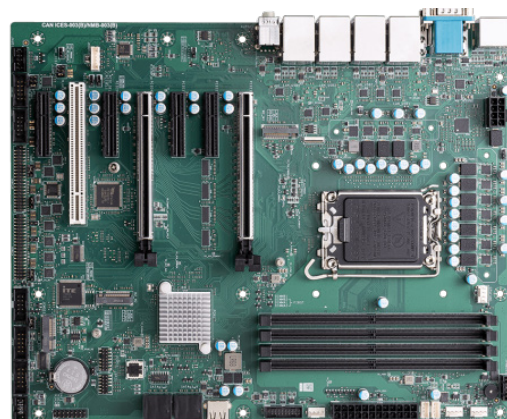
WSA-88W1-4U

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 W880
- 4 DDR5 5600 MT/s ECC/non-ECC UDIMM slots up to 192GB
- 4* 2.5GbE LAN with RJ-45
- 1 PCIe x16 (Gen 5) Slot or 2 PCIe x8 (Gen 5), 4 PCIe x4 (Gen 4, 1 signal from CPU, 3 signal from PCH), 1 PCI slot, 1 M.2 E key slot
- 2* M.2 M key, 4 SATA 3.0 for storage
- Onboard TPM 2.0
- SMBus, I2C, PMBus, iAMT 19.x, Chassis Intrusion
- 8* USB 3.2 Gen 2, 2* USB 3.2 Gen 1, 3* USB 2.0, 10 COM (2 RS-485 / 8 RS-232), GPIO, PS/2



WSA-88W1-4U-01 SKU



WSA-88W1-4U-02 SKU



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® Arrow Lake-S Core™ Ultra 9/7/5, Max 125W, Socket (LGA1851)
Chipset	Intel W880 Express
Memory	4 x 288-pin UDIMMs Dual-channel DDR5 (ECC/non-ECC) 5600 MT/s (ECC support will depend on CPU) Up to 192GB
Storage	4 x SATA 3.0 (RAID 0/1/5/10) 1 x M key (Signal from CPU) 2280, 1 x M key (Signal Shared by PCIe Slot5) 2280
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 2304 @60Hz
Ethernet Controller	4 x Intel® I226-LM 2.5GbE LAN for WSA-88W1-4U-01 SKU 2 x Intel® I226-LM 2.5GbE LAN for WSA-88W1-4U-02 SKU
Serial	10 x COM ports (1 x rear, 9 x internal) COM1~2: RS-232/422/485, Ring/0V/5V/12V, Auto-flow Control (Default set to Ring) COM3~6: RS-232, 0V/5V/12V, Auto-flow Control, COM7~10: RS-232, 0V/5V/12V, Auto-flow Control for WSA-88W1-4U-01 SKU 6 x COM ports (1 x rear, 5 x internal); COM1~2: RS-232/422/485, Ring/0V/5V/12V, Auto-flow Control (Default set to Ring) COM3~6: RS-232, 0V/5V/12V, Auto-flow Control for WSA-88W1-4U-02 SKU
USB	8 x USB 3.2 Gen 2 x1 (8 x rear); 2 x USB 3.2 Gen 1 (2 x internal); 3 x USB 2.0 (3 x internal with one Right Angle Type-A Connector)
AUDIO	Realtek® ALC897 Audio Codec; Line-out · Mic-in
Other	PS/2 keyboard and mouse via Y-cable OnBoard TPM2.0, Infineon® SLB9672VU2.0
GPIO	16-bits (8 x GPI; 8 x GPO), 5V
Expansion Slot	2x PCIe16 Gen 5.0 slots (Signal configured as 1 PCIe x16 or 2 PCIe x8) 4x PCIe4 Gen 4.0 slots 1x PCI slot 1 x E key (PCIe x1), 2230
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-88W1-4U-01	4U Rackmount IPC system with Intel W880 Express ATX motherboard, 4*LAN, 10*COM , 16bit GPIO, 2*M.2 2280 slots, 2*PCIe 16X Gen 5.0, 4* PCIe 4X Gen 4.0
WSA-88W1-4U-02	4U Rackmount IPC system with Intel W880 Express ATX motherboard, 2*LAN, 6*COM , 16bit GPIO, 2*M.2 2280 slots, 2*PCIe 16X Gen 5.0, 4* PCIe 4X Gen 4.0

Optional Accessories

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