

4U Rack Mount Industrial PC Rackmount

Configuration Number: BASE CONFIG
SL-4U-AZ890PA-WBD



NVMe RAID is possible with PCIe4-SI-PEX40110 Plug-in Board.

Type:

- 4U Rack Mount Industrial PC
- Depth: 17.50", Max Card Depth: 12.28 inches", Locking Front Bezel

Motherboard:

- Featuring Intel Z890 Chipset and Intel Core™ Ultra Processors (Series 2), LGA1851 processor
- **Full Height Slots:**
3 - PCIe x16
- **LAN:** 2x Ports (2.5GbE + 10GbE)
- **WiFi:** Wi-Fi 7 + BT 5.4
- **RAID:** 0,1,5,10 and NVMe 0,1,5
- **Video:** 1x HDMI, 2x Intel Thunderbolt™ 5, 1x Intel Thunderbolt™ 4
- **Audio:** Realtek ALC1220P Surround Sound High Definition Audio CODEC
- **Ports:**
3x USB 2.0 Ports (1 Rear, 2 Internal Headers)
2x USB 3.2 Gen 1 Ports (2 Front)
6x USB 3.2 Gen 2 Ports (6 Rear)
1x USB 3.2 Gen 2 Type-C Port (1 Internal Headers)
2x Thunderbolt™ 5 Type-C Port (Rear)
1x Thunderbolt™ 4 (supports USB 4.0) Type-C Port (Rear)
1x COM Port (RS232 Internal Headers)
See specifications for more ports
- **Operating Temperature:** 10°C to 35°C (50°F to 95°F)



Configuration summary:

- **Processor:** Intel Core™ Ultra 5 Processor 225 Processor - 10 Cores (6P + 4E), 20MB Intel Smart Cache, 121W (PL2)
- **Memory:** 2 x 16GB DDR5 4800MHz RAM Non-ECC Unbuffered DIMM
- **Hard Drive:** 500GB M.2 2280 NVMe SSD or greater 5,000/3,000MB/s
- **Power Supply:** 550W Fully Modular ATX Power Supply - 80+ Bronze
- **Operating System:** Not Included -
- **Warranty:** One-Year Depot Warranty

Technical Specifications

MotherBoard Specifications:

Motherboard Model

- Motherboard Type: ATX

Supported CPU

- Number of Processors: 1
- Processor Type: Intel Core™ Ultra Processors (Series 2), LGA1851

Chipset

- Chipset: Intel Z890 Chipset

Memory

- Memory Type: DDR5 4800MHz
- Memory Type: Non-ECC
- DIMMS: 4
- Maximum Memory: 256GB

On Board Audio

- Audio Type: Realtek ALC1220P Surround Sound High Definition Audio CODEC

On Board Video

- Video Chipset: Supported by CPU - depends on CPU selected
- Video on IO: 1x HDMI, 2x Intel Thunderbolt™ 5, 1x Intel Thunderbolt™ 4
- HDMI Out: 1
- Thunderbolt™ video outputs: 2

LAN

Chassis Specifications:

General

- Form Factor: 4U Rackmount
- Front Changeable Air Filter
- Color: Black & Silver
- Material: Metal/Steel
- Material Thickness: 1.20mm
- Motherboard Compatibility: ATX
- Redundant Power Supply Capable
- Slide Rails: Optional

Expansion

- Full Height Slots: 7
- Max Card Depth: 12.28 inches"
- External 5.25" Bays: 3
- Internal 3.5" Bays: 4
- External 3.5" Bays: 2
- Serial Port Punchouts: 2

Front Ports

- USB 3.2 Ports (Front): 2

Cooling System

- Maximum Fan Count: 3
- Included Fans: 1

Physical

- Depth: 17.50"
- Depth (Inches): 17.5
- Width: 16.90"

- LAN Ports: 2
- LAN Type: 2.5GbE + 10GbE
- LAN Chipset: Intel 2.5Gb Ethernet
- Second LAN Chipset: Marvell AQtion 10Gb Ethernet
- Wireless LAN: Wi-Fi 7 + BT 5.4

Drive Interface

- SATA III Ports (6GB): 4
- RAID
- RAID Type: Software RAID
- RAID Levels Supported on Motherboard: 0, 1, 5, 10

Expansion Slots

- PCI Express x16 Slots On Motherboard: 3

M.2 Slot Specs

- Total M.2 NVMe SSD Slots: 5
- M.2 Slot #1 Specs
 - 2242 - 22 mm x 42 mm.
 - 2260 - 22 mm x 60 mm.
 - 2280 - 22 mm x 80 mm.
 - 22110 - 22 mm x 110 mm.
- M.2 Slot #2 Specs
 - 2242 - 22 mm x 42 mm.
 - 2260 - 22 mm x 60 mm.
 - 2280 - 22 mm x 80 mm.
- M.2 Slot #3 Specs
 - 2242 - 22 mm x 42 mm.
 - 2260 - 22 mm x 60 mm.
 - 2280 - 22 mm x 80 mm.
- M.2 Slot #4 Specs
 - 2242 - 22 mm x 42 mm.
 - 2260 - 22 mm x 60 mm.
 - 2280 - 22 mm x 80 mm.
- M.2 Slot #5 Specs
- M.2 SATA SSD
 - 2242 - 22 mm x 42 mm.
 - 2260 - 22 mm x 60 mm.
 - 2280 - 22 mm x 80 mm.
- None

Rear IO

- USB 2.0 Ports (on IO): 1
- USB 3.2 Gen 2 Type A Ports (on IO): 6
- Thunderbolt™ 4 (supports USB 4.0) Type-C Port: 1
- Thunderbolt™ 5 Type-C Port (Rear): 2
- Audio on IO

Headers

- USB 2.0 Ports (on Headers): 2

- Height: 7"
- Shipping Box - Depth: 23"
- Shipping Box - Width: 22"
- Shipping Box - Height: 12"
- Shipping Weight: 28lbs

Compliance of Component

- RoHS

Other Features

- Chassis Warranty: 1 Year

Power

- Remote Server Management:

- USB 3.2 Gen 1 Ports (on Headers): 2
- USB 3.2 Gen 2 Type-C (on Headers): 1
- Serial (via Headers): 1
- FAN Connectors: 9
- Audio on Headers
- TPM Support: Via 2.0 Header

Environmental

- Operating Temperature: 10°C to 35°C (50°F to 95°F)
- High Humidity: 95%
- Low Humidity: 5%

Operating System Support

- Windows 11 Home (64 Bit)
- Windows 11 Pro (64 Bit)
- Windows 11 Pro for WS (64 Bit)
- Windows 11 IoT 2024 LTSC High End

Compliance of Component

- CE
- RoHS
- FCC

Other Features

- Features:
Expansion Slot

Intel Core™ Ultra Processors (Series 2) *

2 x PCIe 5.0 x16 slots (supports x16 or x8/x8 modes)

Intel Z890 Chipset

*1 x PCIe 4.0 x16 slot (supports x4 mode)

Storage

Total supports 5 x M.2 slots and 4 x SATA 6Gb/s ports*

Intel Core™ Ultra Processors (Series 2) *

M.2_1 slot (Key M), type 2242/2260/2280/22110 (supports PCIe 5.0 x4 mode)

M.2_2 slot (Key M), type 2242/2260/2280 (supports PCIe 4.0 x4 mode)

Intel Z890 Chipset

M.2_3 slot (Key M), type 2242/2260/2280 (supports PCIe 4.0 x4 mode)

M.2_4 slot (Key M), type 2242/2260/2280 (supports PCIe 4.0 x4 modes)

M.2_5 slot (Key M), type 2242/2260/2280 (supports PCIe 4.0 x4 & SATA modes)**

4 x SATA 6Gb/s ports

* Intel Rapid Storage Technology supports PCIe RAID 0/1/5/10, SATA RAID 0/1/5/10, M.2 slot from

CPU only supports RAID 0/1/5.

** M.2_5 slot shares bandwidth with PCIe 4.0 x16 slot. When M.2_5 slot is operating, PCIe 4.0 x16 slot will be disabled.

Graphics

1 x HDMI™ port**

2 x Intel Thunderbolt™ 5 ports (USB Type-C) support DisplayPort™ and Thunderbolt™ video outputs***

1 x Intel Thunderbolt™ 4 ports (USB Type-C) support DisplayPort™ and Thunderbolt™ video outputs****

* Graphics specifications may vary between CPU types. Please refer to www.intel.com for any updates.

* Access to PCI Express slot requires expansion slot and a riser in some chassis models. Please check Chassis Specification section for more information.

If you have any questions, please discuss with our Sales Engineers.

- Motherboard Warranty: 1 Year



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