

## 4U Rack Mount Industrial PC Rackmount

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



### Type:

- 4U Rack Mount Industrial PC
- Depth: 16.89", Max Card Depth: 375mm (with 25mm thick front fans)"

### 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 5600MHz 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**

- LAN Ports: 2
- LAN Type: 2.5GbE + 10GbE
- LAN Chipset: Intel 2.5Gb Ethernet
- Second LAN Chipset: Marvell AQton 10Gb Ethernet

## Chassis Specifications:

### **General**

- Form Factor: 4U Rackmount
- Front Changeable Air Filter
- Color: Black
- Material: Metal/Steel
- Material Thickness: 1mm
- Motherboard Compatibility: SSI CEB
- Redundant Power Supply Capable
- Slide Rails: Optional

### **Expansion**

- Full Height Slots: 8
- Max Card Depth: 375mm (with 25mm thick front fans)"
- External 5.25" Bays: 1
- Internal 3.5" Bays: 3
- Internal 2.5" Bays: 8

### **Front Ports**

- USB 3.2 Ports (Front): 2
- USB Type-C (Front): 1

### **Cooling System**

- Maximum Fan Count: 3

### **Physical**

- Depth: 16.89"
- Depth (Inches): Click Available Downloads Tab > Mechanical Drawings.
- Width: 17"
- Height: 6.96"
- Shipping Box - Depth: 21"
- Shipping Box - Width: 21"
- Shipping Box - Height: 11"

- 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
- 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

- Shipping Weight: 30lbs

### Other Features

- Features:
  - 8x full height PCIe card slot cutouts
  - Maximum card height: 158mm (card and power connector must be  $\leq$ 158mm tall)
  - Maximum card length: 375mm (with 25mm thick front fans)
  - LIQUID COOLING NOTE: radiators reduce the available depth inside the case for long GPUs
  - Inside of case is 399mm deep
  - Thickness of radiator + thickness of case fans + GPU length must equal less than 399mm total.
  - Chassis Warranty: 1 Year

### Power

- Remote Server Management:

- 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](http://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



[www.superlogics.com](http://www.superlogics.com)  
Phone: 1-508-650-9500

[sales@superlogics.com](mailto:sales@superlogics.com)  
Fax: 1-508-650-9525