

## 5U Rack Mount Workstation Rackmount

Configuration Number: BASE CONFIG  
SL-5U-AZ890PA-SA



### Type:

- 5U Rack Mount Workstation
- Depth: 20.87", Max Card Depth: Length: 455mm (without installing front fans and radiators)"

### 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:** HDMI + Thunderbolt 5 + Thunderbolt 5 + 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

- 245K Processor Cores (P+E) 14 (6+8)
- Intel Smart Cache (L3, MB) 24, PL2 159W
- **Memory:** 2 x 8GB DDR5 4800MHz RAM  
Non-ECC Unbuffered DIMM
- **Hard Drive:** 250GB NVMe SSD M.2  
2.9GB/1.3GB - Samsung 980
- **Power Supply:** 850W ATX12V / EPS12V  
Full Modular Power Supply - 80+ Gold  
Certified
- **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: HDMI + Thunderbolt 5 + Thunderbolt  
4 + Thunderbolt 4
- HDMI Out: 1
- Thunderbolt™ video outputs: 2

#### LAN

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

### Chassis Specifications:

#### General

- Form Factor: 5U Rackmount
- Color: Black
- Material: Metal/Steel
- Material Thickness: 1mm
- Motherboard Compatibility: SSI EEB
- Redundant Power Supply Capable
- Slide Rails: Optional

#### Expansion

- Full Height Slots: 8
- Max Card Depth: Length: 455mm (without  
installing front fans and radiators)"
- Internal 3.5" Bays: 4
- Internal 2.5" Bays: 4

#### Front Ports

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

#### Cooling System

- Maximum Fan Count: 6
- Included Fans: 3

#### Physical

- Depth: 20.87"
- Width: 17.30"
- Height: 8.66"
- Shipping Weight: 71lbs

#### Other Features

- Features:

- 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
- USB 3.2 Gen 1 Ports (on Headers): 2
- USB 3.2 Gen 2 Type-C (on Headers): 1
- Serial (via Headers): 1

Expansion card

Length: 455mm (without installing front fans and radiators)  
 Width w/ expansion card retainer: 157mm  
 Width w/o expansion card retainer: 198mm  
 Limitation of Height w/ CPU cooler expansion card retainer: 181mm  
 Height w/o expansion card retainer: 192mm  
 Limitation of Height w/o expansion card retainer: 160mm  
 of ~190mm  
 PSU (Removal of 3.5" drive cage eliminates PSU depth limitation) Dimension Incl. rear fan cage: 440mm (W) x 220mm (H) x 530mm (D), 51.3 liters Excl.

- 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

rear fan cage: 440mm (W) x 220mm (H) x 485mm (D), 46.95 liters Incl. rear fan cage: 17.3" (W), 8.66" (H), 20.87" (D) Excl. rear fan cage: 17.3" (W), 8.66" (H), 19.1" (D)

- Chassis Warranty: 1 Year

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



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