

## 5U Rack Mount Workstation Rackmount

Configuration Number: BASE CONFIG  
SL-5U-GZ890AE-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:** 1x Ports (2.5GbE (10/100/1000/2500))
- **WiFi:** Wi-Fi 7 + BT 5.4
- **RAID:** 0,1,5,10 and NVMe 0,1,5,10
- **Video:** 1x HDMI, 1x DisplayPort, 1x Intel Thunderbolt™ 4
- **Audio:** Realtek ALC1200 Audio Codec
- **Ports:**  
7x USB 2.0 Ports ( 3 Rear, 4 Internal Headers )  
5x USB 3.2 Gen 1 Ports ( 2 Front, 3 Rear )  
2x USB 3.2 Gen 2 Ports ( 2 Rear )  
1x USB 3.2 Gen 2 Type-C Port ( 1 Internal Headers )  
1x Thunderbolt™ 4 (supports USB 4.0) Type-C Port (Rear)  
See specifications for more ports
- **Operating Temperature:** 5°C to 35°C (41°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 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 ALC1200 Audio Codec

### On Board Video

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

### LAN

- LAN Ports: 1
- LAN Type: 2.5GbE (10/100/1000/2500)
- LAN Chipset: Realtek 2.5GbE LAN
- Wireless LAN: Wi-Fi 7 + BT 5.4

## 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:  
Expansion card                      Length: 455mm (without  
installing front fans and

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: 4
- M.2 Slot #1 Specs
  - 2280 - 22 mm x 80 mm.
  - 22110 - 22 mm x 110 mm.
- M.2 Slot #2 Specs
  - 2280 - 22 mm x 80 mm.
  - 22110 - 22 mm x 110 mm.
- M.2 Slot #3 Specs
  - 2280 - 22 mm x 80 mm.
  - 22110 - 22 mm x 110 mm.
- M.2 Slot #4 Specs
  - 2280 - 22 mm x 80 mm.
  - 22110 - 22 mm x 110 mm.

Rear IO

- USB 2.0 Ports (on IO): 3
- USB 3.2 Gen 1 Type A Ports (on IO): 3
- USB 3.2 Gen 2 Type A Ports (on IO): 2
- Thunderbolt™ 4 (supports USB 4.0) Type-C Port: 1

Headers

- USB 2.0 Ports (on Headers): 4
- USB 3.2 Gen 1 Ports (on Headers): 2
- USB 3.2 Gen 2 Type-C (on Headers): 1
- FAN Connectors: 6
- Audio on Headers
- TPM Support: Via 2.0 Header

Environmental

- Operating Temperature: 5°C to 35°C (41°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 Value
- Windows 11 IoT 2024 LTSC High End

Compliance of Component

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  
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.  
rear  
fan

<ul style="list-style-type: none"> <li>• CE</li> <li>• RoHS</li> <li>• FCC</li> </ul>	
<b>Other Features</b>	
<ul style="list-style-type: none"> <li>• Features:</li> </ul>	
Expansion Slots	
CPU:	
- 1 x PCI Express x16 slot, supporting PCIe 5.0 and running at x16 (PCIEX16)	
* The PCIEX16 slot can only support a graphics card or an NVMe SSD. If only one graphics card is to be installed, be sure to install it in the PCIEX16 slot.	
Chipset:	
- 2 x PCI Express x16 slots, supporting PCIe 4.0 and running at x4 (PCIEX4_1, PCIEX4_2)	
Graphics	
Integrated Graphics Processor-Intel HD Graphics support:	
- 1 x Intel Thunderbolt™ 4 connector (USB4 USB Type-C port), supporting DisplayPort and Thunderbolt™ video outputs	
When a Thunderbolt™ monitor is installed, the maximum resolution supported is 5120x2880@60 Hz with 24 bpp (single display output).	
When a USB4 USB Type-C monitor is installed, the maximum resolution supported is 3840x2160@240 Hz (single display output).	
* Because of the limited I/O resources of the PC architecture, the number of Thunderbolt™ devices that can be used is dependent on the number of the PCI Express devices being installed. (Refer to Chapter 2-6, "Back Panel Connectors," for more information.)	
* Support for DisplayPort 2.1 version and HDCP 2.3	
- 1 x front HDMI port, supporting a maximum resolution of 1920x1080@30 Hz	
* Support for HDMI 1.4 version	
- 1 x DisplayPort, supporting a maximum resolution of 4096x2304@60 Hz	
	cage: 440m m (W) x 220m m (H) x 485m m (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)
<ul style="list-style-type: none"> <li>• Chassis Warranty: 1 Year</li> </ul>	

\* Support for DisplayPort 2.1 version and HDCP 2.3

(Graphics specifications may vary depending on CPU support.)

Support for up to triple-display at the same time

Storage

CPU:

- 1 x M.2 connector (Socket 3, M key, type 25110/22110/2580/2280 PCIe 5.0 x4/x2 SSD support) (M2A\_CPU)

- 1 x M.2 connector (Socket 3, M key, type 22110/2280 PCIe 4.0 x4/x2 SSD support) (M2B\_CPU)

Chipset:

- 1 x M.2 connector (Socket 3, M key, type 25110/22110/2580/2280 PCIe 4.0 x4/x2 SSD support) (M2Q\_SB)

- 1 x M.2 connector (Socket 3, M key, type 22110/2280 SATA and PCIe 4.0 x4 SSD support) (M2M\_SB)

- 4 x SATA 6Gb/s connectors

RAID 0, RAID 1, RAID 5, and RAID 10 support for NVMe SSD storage devices

RAID 0, RAID 1, RAID 5, and RAID 10 support for SATA storage devices

\* 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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