

## 3U Liquid Cooled Rack Mount Industrial PC Rackmount

Configuration Number: BASE CONFIG  
SL-3U-GZ890AE-SE

### 1 x Intel Thunderbolt™ 4 (USB Type-C) ports



#### Type:

- 3U Liquid Cooled Rack Mount Industrial PC
- Depth: 16.89", Max Card Depth: 375mm"



#### 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:** 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 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:** 700W SFX Form Factor Auto-Switching Power Supply, Fully Modular, 80+ Platinum
- 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

## Chassis Specifications:

### **General**

- Form Factor: 3U Rackmount
- Color: Black
- Material: Metal/Steel
- Material Thickness: 1mm
- Motherboard Compatibility: E-ATX
- Slide Rails: Optional

### **Expansion**

- Full Height Slots: 8
- Max Card Depth: 375mm"
- Internal 2.5" Bays: 1

### **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): 17
- Width: 17"
- Height: 5.22"
- Shipping Box - Depth: 21"
- Shipping Box - Width: 21"
- Shipping Box - Height: 10"
- Shipping Weight: 28lbs

### **Other Features**

- Features:

- 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: 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

- Eight(8) full height PCIe card slot cutouts
- Maximum card height: 115mm
- Maximum card length with no fans / no AIO cooler: 400mm
- Maximum card length with 3x Noctua A12x25 fans: 375mm
- Maximum card length with Asetek 360mm AIO and Noctua A12x25 fans: 348mm
- Maximum card length with Asetek 360mm AIO and Push/Pull Noctua A12x25 fans: 322mm
- Case includes eight(8) non-vented PCIe slot filler blank brackets (Sliger Part Number: CXSC1020A)
- Chassis Warranty: 1 Year

## **Compliance of Component**

- CE
- RoHS
- FCC

## **Other Features**

- Features:  
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

\* 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