

## 4U Rack Mount Industrial PC Rackmount

Configuration Number: BASE CONFIG  
SL-4U-GZ890AE-ST



### Type:

- 4U 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:** 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 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 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

#### Drive Interface

- SATA III Ports (6GB): 4
- RAID

### 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"
- 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"
- Shipping Weight: 30lbs

#### Other Features

- Features:
  - 8x full height PCIe card slot cutouts

- 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**

- CE
- RoHS
- FCC

- Maximum card height: 158mm (card and power connector must be ≤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

## 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



www.superlogics.com  
Phone: 1-508-650-9500

sales@superlogics.com  
Fax: 1-508-650-9525