

## 3U Liquid Cooled Rack Mount Industrial PC Rackmount

Configuration Number: BASE CONFIG  
SL-3U-GZ790-SR



### Type:

- 3U Liquid Cooled Rack Mount Industrial PC
- Depth: 14.89", Max Card Depth: 324mm"

### Motherboard:

- Featuring Intel Z790 Chipset and 13th Gen Intel Core™, Pentium Gold and Celeron processor
- **Full Height Slots:**  
3 - PCIe x16
- **LAN:** 1x Ports (2.5GbE (10/100/1000/2500))
- **WiFi:** Wi-Fi 6E + BT
- **RAID:** 0,1,5,10 and NVMe 0,1,5,10
- **Video:** DisplayPort + HDMI
- **Audio:** Realtek Audio CODEC
- **Ports:**  
8x USB 2.0 Ports ( 4 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 )  
See specifications for more ports
- **Operating Temperature:** 0°C to 50°C (32°F to 122°F)

### Configuration summary:

- **Processor:** i5-13400 - 2.50GHz (up to 4.60GHz) Intel Core CPU - 10 Cores, 20MB Cache, UHD Graphics 730 (Base 65W, Max 154W) (ERM)
- **Memory:** 8GB DDR5 4800MHz RAM Non-ECC Unbuffered DIMM
- **Hard Drive:** 250GB NVMe SSD M.2

2.9GB/1.3GB - Samsung 980

- **Power Supply:** 750W SFX Form Factor Auto-Switching Power Supply, Fully Modular, 80+ Gold
- **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: 13th Gen Intel Core™, Pentium Gold and Celeron

#### Chipset

- Chipset: Intel Z790 Chipset

#### Memory

- Memory Type: DDR5 4800MHz
- Memory Type: Non-ECC
- DIMMS: 4
- Maximum Memory: 192GB

#### On Board Audio

- Audio Type: Realtek Audio CODEC

#### On Board Video

- Video Chipset: Supported by CPU - depends on CPU selected
- Video on IO: DisplayPort + HDMI
- Display Port Out: 1
- HDMI Out: 1

#### LAN

- LAN Ports: 1
- LAN Type: 2.5GbE (10/100/1000/2500)
- LAN Chipset: Realtek 2.5GbE LAN
- Wireless LAN: Wi-Fi 6E + BT

#### Drive Interface

- SATA III Ports (6GB): 6
- RAID
- RAID Type: Software RAID
- RAID Levels Supported on Motherboard: 0, 1, 5,

### Chassis Specifications:

#### General

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

#### Expansion

- Full Height Slots: 8
- Max Card Depth: 324mm"
- External 3.5" Bays: 1
- Internal 2.5" Bays: 2

#### Front Ports

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

#### Cooling System

- Maximum Fan Count: 2

#### Physical

- Depth: 14.89"
- Width: 17"
- Height: 5.22"
- Shipping Box - Depth: 24"
- Shipping Box - Width: 23"
- Shipping Box - Height: 11"
- Shipping Weight: 28lbs

#### Other Features

- Features:
  - 8x full height PCIe card slot cutouts
  - Maximum card height: 115mm
  - Maximum card length with 3x Noctua A12x25 fans: 324mm

**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
  - PCIe Signal
  - 2280 - 22 mm x 80 mm.
  - 22110 - 22 mm x 110 mm.
- M.2 Slot #2 Specs
  - PCIe Signal
  - 2280 - 22 mm x 80 mm.
  - 22110 - 22 mm x 110 mm.
- M.2 Slot #3 Specs
  - PCIe Signal
  - 2280 - 22 mm x 80 mm.
  - 22110 - 22 mm x 110 mm.
- M.2 Slot #4 Specs
  - PCIe Signal
  - 2280 - 22 mm x 80 mm.
  - 22110 - 22 mm x 110 mm.

**Rear IO**

- USB 2.0 Ports (on IO): 4
- USB 3.2 Gen 1 Type A Ports (on IO): 3
- USB 3.2 Gen 2 Type A Ports (on IO): 2
- USB 3.2 Gen 2x2 Type C Ports (on I/O): 1
- SPDIF Connector: 1
- Audio on IO

**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
- Thunderbolt 3 via Header: 2
- FAN Connectors: 6
- Audio on Headers
- TPM Support: Via 2.0 Header

**Environmental**

- Operating Temperature: 0°C to 50°C (32°F to 122°F )
- High Humidity: 90%
- Low Humidity: 5%

**Operating System Support**

- SL-Windows 11PRO to 10PRO 64bit
- Windows 10 IoT 2021 LTSC Value
- Windows 10 IoT 2021 LTSC High End
- Windows 11 Home (64 Bit)

- Maximum card length with Asetek 360mm AIO and Noctua A12x25 fans: 297mm
- Maximum card length with no fans / no AIO cooler: 349mm
- Chassis Warranty: 1 Year

- 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
- LINUX Ubuntu Desktop
- Ubuntu Server Edition

#### **Compliance of Component**

- CE
- FCC

#### **Other Features**

- Features:

Expansion Slots

CPU:1 x PCI Express x16 slot, supporting PCIe 5.0 and running at x16 (PCIEX16)

\* For optimum performance, if only one PCI Express graphics card is to be installed, be sure to install it in the PCIEX16 slot.

Chipset:1 x PCI Express x16 slot, supporting PCIe 4.0 and running at x4 (PCIEX4\_1)

1 x PCI Express x16 slot, supporting PCIe 3.0 and running at x4 (PCIEX4\_2)

Storage Interface

CPU:1 x M.2 connector (Socket 3, M key, type 22110/2280 PCIe 4.0 x4/x2 SSD support) (M2A\_CPU)

Chipset:2 x M.2 connectors (Socket 3, M key, type 22110/2280 PCIe 4.0 x4/x2 SSD support) (M2P\_SB, M2Q\_SB)

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

6 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

\* Refer to "2-8 Internal Connectors," for the installation notices for the M.2 and SATA connectors.

\* 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



Simplifying Computing™

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

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