

3U Liquid Cooled Rack Mount Industrial PC Rackmount

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



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:** NVMe 0,1,5,10
- **Video:** 1x 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:** 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: 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: 1x 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
- Color: Black
- Material: Metal/Steel
- Material Thickness: 1mm
- Motherboard Compatibility: E-ATX
- Slide Rails: Optional

Expansion

- Full Height Slots: 8
- Max Card Depth: 324mm"
- 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: 14.89"
- Width: 17"
- Height: 5.22"
- Shipping Box - Depth: 21"
- Shipping Box - Width: 19"
- Shipping Box - Height: 9"
- 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
 - Maximum card length with Asetek 360mm AIO and Noctua A12x25 fans:

Expansion Slots

- PCI Express x16 Slots On Motherboard: 3

- Maximum card length with no fans / no AIO cooler: 349mm

M.2 Slot Specs

- Total M.2 NVMe SSD Slots: 4

Power

- M.2 Slot #1 Specs

- Chassis Warranty: 1 Year

- 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

- M.2 SATA SSD

- 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)

- 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



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