3U Rack Mount Industrial PC Rackmount

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

Type:

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

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:** 5ºC to 35ºC (41ºF to 95ºF)

Configuration summary:

- **Processor:** Intel Core Ultra 5 225 Processor - 10 Cores (6P + 4E), 20MB 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:** 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 and IPMI: 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

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

- 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: 5ºC to 35ºC (41ºF to 95ºF)
- High Humidity: 95%
- Low Humidity: 5%

Operating System Support

- 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

A12x25 fans: 324mm
  - 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

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

  ntegrated 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

Storeage

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