4U Rack Mount Industrial PC Rackmount

Configuration Number: BASE CONFIG
SL-4U-GZ690A-SA

Type:

- 4U Rack Mount Industrial PC
- Depth: 18.43", Max Card Depth: Length w/o expansion card retainer: 426mm, Length w/ expansion card retainer: 337mm", Locking Front Bezel

Motherboard:

- Featuring Intel Z690 Chipset and 12th Gen Core, Pentium Gold and Celeron (LGA1700) processor
- **Full Height Slots:**
  3 - PCIe x16
- **LAN:** 2x Ports (2.5GbE + 10GbE)
- **WiFi:** Wi-Fi 6 + BT 5.2
- **RAID:** 0,1,5,10
- **Video:** HDMI + DisplayPort + Intel Thunderbolt™ 4
- **Audio:** Realtek ALC4080 codec
- **Ports:**
  6x USB 2.0 Ports (6 Internal Headers)
  4x USB 3.2 Gen 1 Ports (2 Front, 2 Internal Headers)
  6x USB 3.2 Gen 2 Ports (6 Rear)
  1x USB 3.2 Gen 2 Type-C Port (1 Internal Headers)
  2x Thunderbolt™ 4 (supports USB 3.2 Gen 2) Type-C Port (Rear)
  See specifications for more ports
- **Operating Temperature:** 0ºC to 0ºC (0ºF to 0ºF)

Configuration summary:

- **Processor:** i3-12100 - 3.30GHz (up to 4.30GHz) Intel Core CPU - 4 Core, 12MB Cache, UHD Graphics 730 (Base 60W,

Max 89W) (ERM)
- **Memory:** 8GB DDR5 5200MHz RAM
- **Hard Drive:** 250GB NVMe SSD M.2 2.9GB/1.3GB - Samsung 980
- **Power Supply:** 400W Power Supply
- **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: 12th Gen Core, Pentium Gold and Celeron (LGA1700)

Chipset
- Chipset: Intel Z690 Chipset

Memory
- Memory Type: DDR5 4800MHz
- Memory Type: Non-ECC
- DIMMS: 4
- Maximum Memory: 128GB

On Board Audio
- Audio Type: Realtek ALC4080 codec

On Board Video
- Video Chipset: Supported by CPU - depends on CPU selected
- Video on IO: HDMI + DisplayPort + Intel Thunderbolt™ 4
- Display Port Out: 1
- HDMI Out: 1
- Thunderbolt™ video outputs: 2

LAN
- LAN Ports: 2
- LAN Type: 2.5GbE + 10GbE
- LAN Chipset: Intel 2.5Gb Ethernet
- Second LAN Chipset: Marvell AQtion AQC113C 10GbE
- Wireless LAN: Wi-Fi 6 + BT 5.2

Chassis Specifications:

General
- Form Factor: 4U Rackmount
- Color: Black
- Material: Metal/Steel
- Material Thickness: 1mm
- Motherboard Compatibility: SSI EEB
- Redundant Power Supply Capable
- Slide Rails: Optional

Expansion
- Full Height Slots: 7
- Max Card Depth: Length w/o expansion card retainer: 426mm, Length w/ expansion card retainer: 337mm"
- External 5.25" Bays: 2
- Internal 2.5" Bays: 1

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

Cooling System
- Maximum Fan Count: 4
- Included Fans: 2

Physical
- Depth: 18.43"
- Width: 16.93"
- Height: 6.93"
- Shipping Box - Depth:
- Shipping Box - Width:
- Shipping Box - Height:
- Shipping Weight: 25lbs

Other Features

Drive Interface

- SATA III Ports (6GB): 6
- 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: 2

Rear IO

- USB 3.2 Gen 2 Type A Ports (on IO): 6
- Thunderbolt™ 4 (supports USB 3.2 Gen 2) Type-C Port: 2
- Audio on IO

Headers

- USB 2.0 Ports (on Headers): 6
- USB 3.2 Gen 1 Ports (on Headers): 4
- USB 3.2 Gen 2 Type-C (on Headers): 1
- FAN Connectors: 8
- Audio on Headers
- TPM Support: Via 2.0 Header

Environmental

- Operating Temperature: 0ºC to 0ºC (0ºF to 0ºF)

Operating System Support

- Windows 10 Home (64 Bit)
- Windows 10 Pro (64-Bit)
- Windows 10 Pro WS (64-Bit)
- SL-Windows 11PRO to 10PRO 64bit
- 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

Other Features

- Features:
    - 1 x PCI Express x16 slot, 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.

- Features:
  Expansion card

    - Length w/ expansion card retainer: 337mm
    - Length w/o expansion card retainer: 426mm
    - Width w/ GPU holder: 116mm
    - Width w/o GPU holder: 154mm

  Limitation of CPU cooler

    - w/ GPU holder: 130mm
    - w/o GPU holder: 148mm

- Chassis Warranty: 1 Year

- 1 x PCI Express x16 slot, running at x8 (PCIEX8)
  * The PCIEX8 slot shares bandwidth with the PCIEX16 slot. When the PCIEX8 slot is populated, the PCIEX16 slot operates at up to x8 mode.
  (The PCIEX16 and PCIEX8 slots conform to PCI Express 5.0 standard.)
- 1 x PCI Express x16 slot, running at x4 (PCIEX4)
  (The PCIEX4 slot conforms to PCI Express 3.0 standard.)

Chipset+Intel Thunderbolt™ 4 Controller:

- 2 x USB Type-C ports on the back panel, with USB 3.2 Gen 2 support

Chipset:

- 1 x USB Type-C port with USB 3.2 Gen 2x2 support, available through the internal USB header
- 6 x USB 3.2 Gen 2 Type-A ports (red) on the back panel

Chipset+USB 3.2 Gen 1 Hub:

- 4 x USB 3.2 Gen 1 ports available through the internal USB headers

Chipset+2 USB 2.0 Hubs:

- 6 x USB 2.0/1.1 ports available through the internal USB headers
- Motherboard Warranty: 1 Year