2U Rack Mount Industrial PC Rackmount

Configuration Number: BASE CONFIG
SL-2U-GQ670M-GD





Type:

- 2U Rack Mount Industrial PC
- Depth: 15.35", Max Card Depth: 9.00"

Motherboard:

- Featuring Intel Q670 Chipset and 13th & 12th Gen Intel Core™, Pentium Gold and Celeron, LGA1700 processor
- **Low Profile Slots:**
  2 - PCIe x16
  1 - PCIe x1
- **LAN:** 2x Ports (2.5GbE + 1GbE)
- **RAID:** 0,1,5,10 and NVMe 0,1,5
- **Video:** 1x VGA,1x HDMI, 2x DisplayPort
- **Audio:** Realtek Audio CODEC
- **Ports:**
  6x USB 2.0 Ports (2 Front, 2 Rear, 2 Internal Headers)
  5x USB 3.2 Gen 1 Ports (3 Rear, 2 Internal Headers)
  1x USB 3.2 Gen 2 Type-C Port (1 Rear)
  1x COM Port (RS232 Internal Headers)
  1x Parallel Port (Headers)
  See specifications for more ports
- **Operating Temperature:** 0ºC to 50ºC (32ºF to 122ºF)

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:** 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:** 400W ATX Power Supply - Auto-Switching, 80+ Bronze.
- **Operating System:** Not Included -
- **Warranty:** One-Year Depot Warranty

Technical Specifications

MotherBoard Specifications:

Motherboard Model
- Motherboard Type: MicroATX

Supported CPU
- Number of Processors: 1
- Processor Type: 13th & 12th Gen Intel Core™, Pentium Gold and Celeron, LGA1700

Chipset
- Chipset: Intel Q670 Chipset

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

On Board Audio
- Audio Type: Realtek Audio CODEC

On Board Video
- Video Chipset: None
- Video on IO: 1x VGA,1x HDMI, 2x DisplayPort
- VGA Port Out: 1
- Display Port Out: 2
- HDMI Out: 1

LAN
- LAN Ports: 2
- LAN Type and IPMI: 2.5GbE + 1GbE
- LAN Chipset: Intel 2.5Gb Ethernet
- Second LAN Chipset: Intel GbE LAN chip
- Wireless LAN: No Integrated WLAN

Drive Interface
- SATA III Ports (6GB): 4
- RAID
- RAID Type: Software RAID
- RAID Levels Supported on Motherboard: 0, 1, 5, 10

Chassis Specifications:

General
- Form Factor: 2U Rackmount
- Color: Black
- Material: Metal/Steel
- Material Thickness: 1mm
- Motherboard Compatibility: Micro ATX
- Slide Rails: Optional

Expansion
- Low Profile Slots: 4
- Max Card Depth: 9.00"
- External 5.25" Bays: 1
- Internal 3.5" Bays: 3

Front Ports
- USB 2.0 Ports (Front): 2

Cooling System
- Maximum Fan Count: 2
- Included Fans: 1

Physical
- Depth: 15.35"
- Depth (Inches): 15.35
- Width: 19"
- Height: 3.50"
- Shipping Box - Depth: 22"
- Shipping Box - Width: 21"
- Shipping Box - Height: 7"
- Shipping Weight: 25lbs

Other Features
- Chassis Warranty: 1 Year

Power
- Remote Server Management:

Expansion Slots

- PCI Express x16 Slots On Motherboard: 2
- PCI Express x1 Slots On Motherboard: 1

M.2 Slot Specs

- Total M.2 NVMe SSD Slots: 2
- M.2 Slot #1 Specs
- PCIe Signal
- 2280 - 22 mm x 80 mm.
- 22110 - 22 mm x 110 mm.
- M.2 Slot #2 Specs
- M.2 SATA SSD
- PCIe Signal
- 2280 - 22 mm x 80 mm.

Rear IO

- PS/2 Combo (Mouse/Keyboard)
- USB 2.0 Ports (on IO): 2
- USB 3.2 Gen 1 Type A Ports (on IO): 3
- USB 3.2 Gen 2 Type C Ports (on I/O): 1
- Audio on IO

Headers

- USB 2.0 Ports (on Headers): 4
- USB 3.2 Gen 1 Ports (on Headers): 2
- Thunderbolt 3 via Header: 2
- Serial (via Headers): 1
- Parallel Ports: 1
- SPDIF Connector: 1
- FAN Connectors: 4
- Audio on Headers
- TPM Support: 2.0 Module Included

Environmental

- Operating Temperature: 0ºC to 50ºC (32ºF to 122ºF)
- High Humidity: 90%
- Low Humidity: 5%

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 10 IoT 2021 LTSC Value
- Windows 10 IoT 2021 LTSC High End
- 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 4.0 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 x PCI Express x1 slot, supporting PCIe 3.0 and running at x1 (PCIEX1

  Storage

  CPU:

  - 1 x M.2 connector (Socket 3, M key, type 22110/2280 PCIe 4.0 x4/x2 SSD support) (M2A_CPU)

  Chipset:

  - 1 x M.2 connector (Socket 3, M key, type 2280 SATA and PCIe 4.0 x4/x2 SSD support) (M2P_SB)
  - 4 x SATA 6Gb/s connectors

  RAID 0, RAID 1, and RAID 5 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