# 2U Rack Mount Industrial PC Rackmount

Configuration Number: BASE CONFIG
SL-2U-AQ670M-DB

**NVMe RAID is possible with PCIEx4-SI-PEX40110 Plug-in Board.**

Type:

- 2U Rack Mount Industrial PC
- Depth: 17", Max Card Depth: 9 inches"

Motherboard:

- Featuring Intel Q670 Chipset and 13th & 12th Gen Intel Core™, Pentium Gold and Celeron, LGA1700 processor
- **Long Production Cycle Motherboard (Through Q1 2025)**
- **LAN:** 1x Ports (1GbE (10/100/1000))
- **RAID:** 0,1,5,10 and NVMe 0,1
- **Video:** 2x DisplayPort, 1x HDMI
- **Audio:** 7.1 HD Audio
- **Ports:**
  6x USB 2.0 Ports ( 2 Rear, 4 Internal Headers )
  2x USB 3.2 Gen 1 Ports ( 2 Front )
  4x USB 3.2 Gen 2 Ports ( 4 Rear )
  2x COM Ports (RS232 Internal Headers)
  1x Parallel Port (Headers)
  See specifications for more ports
- **Operating Temperature:** 0ºC to 40ºC (32ºF to 104ºF)

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 Full Range Input 1U Power Supply - Active PFC 80 Plus Bronze
- **Operating System:** Not Included -
- **Warranty:** One-Year Depot Warranty

# Technical Specifications

## MotherBoard Specifications:

**Motherboard Model**
- Motherboard Type: MicroATX
- Long Production Cycle
- Long Life: YES
- EOL Date: Q1 2025

**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: 7.1 HD Audio

**On Board Video**
- Video Chipset: Supported by CPU - depends on CPU selected
- Video on IO: 2x DisplayPort, 1x HDMI
- Display Port Out: 2
- HDMI Out: 1

**LAN**
- LAN Ports: 1
- LAN Type and IPMI: 1GbE (10/100/1000)
- LAN Chipset: Intel GbE LAN chip
- Wireless LAN: No Integrated WLAN

**Drive Interface**
- SATA III Ports (6GB): 6

## Chassis Specifications:

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

**Expansion**
- Full Height Slots: 3
- Max Card Depth: 9 inches"
- External 5.25" Bays: 1
- Internal 3.5" Bays: 3
- External 3.5" Bays: 1

**Front Ports**
- USB 3.2 Ports (Front): 2

**Cooling System**
- Maximum Fan Count: 3
- Included Fans: 3

**Physical**
- Depth: 17"
- Depth (Inches): 17
- Width: 19"
- Height: 3.50"
- Shipping Box - Depth: 24"
- Shipping Box - Width: 23"
- Shipping Box - Height: 8"
- Shipping Weight: 31lbs

**Compliance of Component**
- RoHS

**Other Features**
- Chassis Warranty: 1 Year

- RAID
- RAID Type: Software RAID
- RAID Levels Supported on Motherboard: 0, 1, 5, 10

**M.2 Slot Specs**

- Total M.2 NVMe SSD Slots: 2
- M.2 Slot #1 Specs
- PCIe Signal
- 2242 - 22 mm x 42 mm.
- 2260 - 22 mm x 60 mm.
- 2280 - 22 mm x 80 mm.
- M.2 Slot #2 Specs
- PCIe Signal
- 2242 - 22 mm x 42 mm.
- 2260 - 22 mm x 60 mm.
- 2280 - 22 mm x 80 mm.

**Rear IO**

- PS/2 Mouse on IO
- PS/2 Keyboard on IO
- USB 2.0 Ports (on IO): 2
- USB 3.2 Gen 2 Type A Ports (on IO): 4
- Audio on IO

**Headers**

- USB 2.0 Ports (on Headers): 4
- USB 3.2 Gen 1 Ports (on Headers): 2
- Serial (via Headers): 2
- Parallel Ports: 1
- FAN Connectors: 3
- Audio on Headers
- Chassis Intrusion

**Environmental**

- Operating Temperature: 0ºC to 40ºC (32ºF to 104ºF )
- High Humidity: 95%
- Low Humidity: 20%

**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

**Power**

- Remote Server Management:

- Ubuntu Server Edition

**Compliance of Component**

- RoHS
- FCC

**Other Features**

- Features:
  Expansion Slots

  Intel 13th & 12th Gen Processors

  1 x PCIe 4.0/3.0 x16 slot

  Intel Q670 Chipset

  2 x PCIe 3.0 x1 slots

  Storage

  Supports 2 x M.2 slots and 6 x SATA 6Gb/s ports

  Intel 13th & 12th Gen Processors

  M.2_1 slot (Key M), type 2242/2260/2280

  - Intel 12th Gen processors support PCIe 4.0 x4 mode

  Intel Q670 Chipset**

  M.2_2 slot (Key M), type 2242/2260/2280(supports PCIe 4.0 x4 mode)

  6 x SATA 6Gb/s ports

  * Intel Rapid Storage Technology supports NVMe RAID 0/1/5, SATA RAID 0/1/5/10.

  ** Intel Rapid Storage Technology supports Intel Optane Memory H Series on PCH attached M.2 slots.

  * 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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