

## 1U Rack Mount Server Rackmount

Configuration Number: BASE CONFIG

SL-1U-AQ670M-IR2





## Type:

- 1U Rack Mount Server
- Depth: 15.48"

## Motherboard:

- Featuring Intel Q670 Chipset and 13th & 12th Gen Intel Core<sup>™</sup>, Pentium Gold and Celeron processor
- Long Production Cycle Motherboard (Through Q1 2025)
- LAN: 1x Ports (1GbE (10/100/1000))
- **RAID:** 0,1 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: 0°C to 40°C (32°F to 104°F)

## 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 4800MHz RAM Non-ECC Unbuffered DIMM
- Hard Drive: 500GB M.2 2280 NVMe SSD or greater 5,000/3,000MB/s
- Power Supply: 315W
- Operating System: Not Included -

# **Technical Specifications**

## MotherBoard Specifications:

## **Motherboard Model**

• Motherboard Type: MicroATX

• Long Production Cycle

Long Life: YESEOL Date: Q1 2025

### **Supported CPU**

• Number of Processors: 1

Processor Type: 13th & 12th Gen Intel Core™,
 Pentium Gold and Celeron

### 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: 1GbE (10/100/1000)
LAN Chipset: Intel GbE LAN chip
Wireless LAN: No Integrated WLAN

#### **Drive Interface**

• SATA III Ports (6GB): 6

RAID

• RAID Type: Software RAID

• RAID Levels Supported on Motherboard: 0, 1, 5,

## M.2 Slot Specs

## Chassis Specifications:

## **General**

• Form Factor: 1U Rackmount

• Color: Black & Silver

• Material: SGCC

• Material Thickness: 1mm

• Motherboard Compatibility: ATX

• Slide Rails: Optional

#### **Expansion**

• Full Height Slots: 1

• Internal 3.5" Bays: 1

• 2.5" Hot Swap Bays: 2

#### **Front Ports**

• USB 3.2 Ports (Front): 2

## **Cooling System**

• Maximum Fan Count: 3

• Included Fans: 2

#### **Physical**

• Depth: 15.48"

• Depth (Inches): 15.48

Width: 16.93"Height: 1.71"

• Shipping Box - Depth: 592mm

• Shipping Box - Width: 518mm

• Shipping Box - Height: 155mm

• Shipping Weight: 12lbs

#### **Other Features**

• Features:

Full height PCIe slot x 1 (via riser card and bracket)

• External: slim ODD x 1, hot-swap 2.5" x 2

• Internal: 3.5" HDD x 1

• Chassis Warranty: 1 Year

#### **Power**

Built-in Chassis Power Supply: 315W

• Remote Server Management:

- 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: 0°C to 40°C (32°F to 104°F)
- 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 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**

- RoHS
- FCC

#### **Other Features**

• Features:

**Expansion Slots** 

Intel 13<sup>th</sup> & 12<sup>th</sup> Gen Processors

1 x PCle 4.0/3.0 x16 slot

Intel Q670 Chipset

2 x PCle 3.0 x1 slots

Storage

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

Intel 13<sup>th</sup> & 12<sup>th</sup> Gen Processors

M.2 1 slot (Key M), type 2242/2260/2280

- Intel 12th Gen processors support PCle 4.0 x4 mode

Intel Q670 Chipset\*\*

M.2\_2 slot (Key M), type 2242/2260/2280(supports PCle 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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