1U Rack Mount Server Rackmount

Configuration Number: BASE CONFIG
SL-1U-AQ870M-IR2





Type:

- 1U Rack Mount Server
- Depth: 15.48"

Motherboard:

- Featuring Intel Q870 Chipset and Intel Core™ Ultra Processors (Series 2), LGA1851 processor
- **Long Production Cycle Motherboard (Through Q1 2028)**
- **LAN:** 1x Ports (1GbE (10/100/1000))
- **RAID:** 0,1,5,10 and NVMe 0,1,5
- **Video:** 2x DisplayPort, 1x HDMI
- **Audio:** 7.1 HD Audio
- **Ports:**
  6x USB 2.0 Ports (2 Rear, 4 Internal Headers)
  3x USB 3.2 Gen 1 Ports (2 Front, 1 Rear)
  2x USB 3.2 Gen 2 Ports (2 Rear)
  2x USB 3.2 Gen 2 Type-C Ports (1 Rear, 1 Internal Headers)
  2x COM Ports (RS232 Internal Headers)
  1x Parallel Port (Headers)
  See specifications for more ports
- **Operating Temperature:** 10ºC to 35ºC (50ºF to 95ºF)

Configuration summary:

- **Processor:** Intel Core Ultra 5 225 Processor - 10 Cores (6P + 4E), 20MB Cache, 121W (PL2)
- **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:** 450W 80+ Platinum Flex

Power Supply
- **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 2028

Supported CPU
- Number of Processors: 1
- Processor Type: Intel Core™ Ultra Processors (Series 2), LGA1851

Chipset
- Chipset: Intel Q870 Chipset

Memory
- Memory Type: DDR5 4800MHz
- Memory Type: Non-ECC
- DIMMS: 4
- Maximum Memory: 256GB

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 i219-LM
- 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,

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: 450W 80+

10

M.2 Slot Specs

- Total M.2 NVMe SSD Slots: 2
- M.2 Slot #1 Specs
- 2242 - 22 mm x 42 mm.
- 2260 - 22 mm x 60 mm.
- 2280 - 22 mm x 80 mm.
- M.2 Slot #2 Specs
- 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 1 Type A Ports (on IO): 1
- USB 3.2 Gen 2 Type A Ports (on IO): 2
- 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
- USB 3.2 Gen 2 Type-C (on Headers): 1
- Serial (via Headers): 2
- Parallel Ports: 1
- FAN Connectors: 3
- Audio on Headers
- Chassis Intrusion

Environmental

- Operating Temperature: 10ºC to 35ºC (50ºF to 95ºF)
- High Humidity: 95%
- Low Humidity: 5%

Operating System Support

- SL-Windows 11PRO to 10PRO 64bit
- 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:

Platinum Flex Power Supply

- Remote Server Management:

Expansion Slots
Intel Core™ Ultra Processors(series 2)*
1 x PCIe 5.0 x16 slot
Intel Q870 Chipset**
1 x PCIe 4.0 x16 slot (supports x4 mode)
1 x PCIe 4.0 x1 slot

Storage

Total supports 2 x M.2 slots and 4 x SATA 6Gb/s ports*
Intel Core™ Ultra Processors(series 2) *
M.2_1 slot (Key M), type 2242/2260/2280
(supports PCIe 5.0 x4 mode)
Intel Q870 Chipset
M.2_2 slot (Key M), type 2242/2260/2280
(supports PCIe 4.0 x4 modes)
4 x SATA 6Gb/s ports
* Intel Rapid Storage Technology supports NVMe RAID 0/1/5, SATA RAID 0/1/5/10.

- Motherboard Warranty: 1 Year

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