

2U Rack Mount Industrial PC Rackmount

Configuration Number: BASE CONFIG
SL-2U-AQ870M-WJ



Type:

- 2U Rack Mount Industrial PC
- Depth: 18", Max Card Depth: 12.25"

Motherboard:

- Featuring Intel Q870 Chipset and Intel Core™ Ultra Processors (Series 2), LGA1851 processor
- **Long Production Cycle Motherboard (Through Q1 2028)**
- **Low Profile Slots:**
 - 2 - PCIe x16
 - 1 - PCIe x1
- **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)
 - 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:** 10°C to 35°C (50°F to 95°F)

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:** 500W
- **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

Chassis Specifications:

General

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

Expansion

- Low Profile Slots: 7
- Max Card Depth: 12.25"
- External 5.25" Bays: 1
- Internal 3.5" Bays: 2
- External 3.5" Bays: 1
- Internal 2.5" Bays: 2

Front Ports

- USB 3.2 Ports (Front): 2

Cooling System

- Maximum Fan Count: 3
- Included Fans: 1

Physical

- Depth: 18"
- Depth (Inches): 18
- Width: 16.90"
- Height: 3.50"
- Shipping Box - Depth: 20"
- Shipping Box - Width: 40"
- Shipping Box - Height: 40"
- Shipping Weight: 35lbs

Compliance of Component

- RoHS

Other Features

- Chassis Warranty: 1 Year

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

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
 - 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: 10°C to 35°C (50°F to 95°F)
- 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

Power

- Built-in Chassis Power Supply: 500W
- Remote Server Management:

Compliance of Component

- RoHS
- FCC

Other Features

- Features:

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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