

4U Rack Mount Industrial PC Rackmount

Configuration Number: BASE CONFIG
SL-4U-LLQ870A-SA



(All view images available on web site)

Type:

- 4U Rack Mount Industrial PC
- Depth: 18.43", Max Card Depth: Length w/o expansion card retainer: 426mm, Length w/ expansion card retainer: 337mm", Locking Front Bezel

Motherboard:

- Featuring Intel Q870 Chipset and Intel Core™ Ultra Processors (Series 2), LGA1851 processor
- **Long Production Cycle Motherboard (Through Q3 2030)**
- **Full Height Slots:**
 - 2 - PCIe x16
 - 4 - PCIe x4
 - 1 - PCI
- **LAN:** 3x Ports (2.5GbE + 2.5GbE + 1GbE)
- **RAID:** 0,1,5,10 and NVMe 0,1
- **Video:** 2x DisplayPort, 1x HDMI
- **Audio:** Realtek ALC897
- **Ports:**
 - 2x USB 2.0 Ports (2 Internal Headers)
 - 4x USB 3.2 Gen 1 Ports (2 Front, 2 Internal Headers)
 - 6x USB 3.2 Gen 2 Ports (6 Rear)
 - 6x COM Ports (1 RS232 Rear, 4 RS232 Internal Headers, 1 RS232/422/485 Internal Headers)
 - 1x Parallel Port (Headers)See specifications for more ports
- **Operating Temperature:** 0°C to 60°C (32°F to 140°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:** 550W Fully Modular ATX Power Supply - 80+ Bronze
- **Operating System:** Not Included -
- **Warranty:** One-Year Depot Warranty

Technical Specifications

MotherBoard Specifications:

Motherboard Model

- Motherboard Type: ATX
- Long Production Cycle
- Long Life: YES
- EOL Date: Q3 2030

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: 192GB

On Board Audio

- Audio Type: Realtek ALC897

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: 3
- LAN Type and IPMI: 2.5GbE + 2.5GbE + 1GbE
- LAN Chipset: Intel 2.5Gb Ethernet

Chassis Specifications:

General

- Form Factor: 4U Rackmount
- Color: Black
- Material: Metal/Steel
- Material Thickness: 1mm
- Motherboard Compatibility: SSI EEB
- Redundant Power Supply Capable
- Slide Rails: Optional

Expansion

- Full Height Slots: 7
- Max Card Depth: Length w/o expansion card retainer: 426mm, Length w/ expansion card retainer: 337mm"
- External 5.25" Bays: 2
- Internal 3.5" Bays: 4
- Internal 2.5" Bays: 2

Front Ports

- USB 3.2 Ports (Front): 2
- USB Type-C (Front): 1
- Front Audio Ports: 1

Cooling System

- Maximum Fan Count: 4
- Included Fans: 2

Physical

- Depth: 18.43"
- Width: 16.93"
- Height: 6.93"
- Shipping Box - Depth:
- Shipping Box - Width:

- Second LAN Chipset: Intel 2.5Gb Ethernet
- Third LAN Chipset: Intel i210AT
- 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

Expansion Slots

- PCI Express x16 Slots On Motherboard: 2
- PCI Express x4 Slots On Motherboard: 4
- PCI Slots (Conventional 32-Bit): 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
 - 2280 - 22 mm x 80 mm.
- M.2 E-Key Slot
- 2230 - 22 mm x 30 mm.

Rear IO

- USB 3.2 Gen 2 Type A Ports (on IO): 6
- USB 3.2 Gen 2x2 Type C Ports (on I/O): 1
- Serial (Rear IO): 1
- Audio on IO

Headers

- USB 2.0 Ports (on Headers): 2
- USB 3.2 Gen 1 Ports (on Headers): 4
- USB 2.0 Ports (Type A): 1
- Serial (via Headers): 4
- Serial 232/422/485 Ports: 1
- Parallel Ports: 1
- FAN Connectors: 4
- Audio on Headers
- PS/2 Combo (Mouse/Keyboard) on Headers
- Chassis Intrusion
- TPM Support: Via 2.0 Header

Environmental

- Operating Temperature: 0°C to 60°C (32°F to 140°F)
- High Humidity: 95%
- Low Humidity: 10%

Operating System Support

- Shipping Box - Height:
- Shipping Weight: 25lbs

Other Features

- Features:

Expansion card

- Length w/ expansion card retainer: 337mm
- Length w/o expansion card retainer: 426mm
- Width w/ GPU holder: 116mm
- Width w/o GPU holder: 154mm

Limitation of CPU cooler

- w/ GPU holder: 130mm
- w/o GPU holder: 148mm

Drive Bays

- External - 5.25" x 2 OR Internal 2.5" x 4 OR Internal 3.5" x 2
- Internal - 2.5" x 1
- Chassis Warranty: 1 Year

- 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
- RED HAT Enterprise LINUX SERVER BASIC
- RED HAT Enterprise LINUX WORKSTATION STANDARD
- RED HAT Enterprise LINUX SERVER STANDARD
- LINUX Ubuntu Desktop
- Ubuntu Server Edition

Compliance of Component

- CE
- FCC

Other Features

- Features:

Expansion slots

1x PCI Express 5.0 x16 slot (1 x16 mode / 2 x8 modes)

1x PCI Express 4.0 x4 slot (x2 mode, open slot)

1x PCI Express 4.0 x4 slot (x4 mode, open slot)

1x PCI Express 5.0 x16 slot (x8 mode)

1x PCI Express 4.0 x4 slot (x2 mode, open slot)

1x PCI Express 4.0 x4 slot (x4 mode, open slot)

1x PCI slot

M.2 Slots

1x M.2 socket 1 (Key E, 2230) for WiFi/BT devices
Supporting Intel CNVi

1x M.2 socket 3 (Key M, 2242/2260/2280) with
PCIe 5.0 x4 mode supporting NVMe

1x M.2 socket 3 (Key M, 2280) with PCIe 4.0 x4
mode supporting NVMe

- Motherboard Warranty: 1 Year



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