# 4U Rack Mount Industrial PC Rackmount

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

## Type:

- 4U Rack Mount Industrial PC
- Depth: 17.70", Max Card Depth: 12.28", 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 Front )
  4x USB 3.2 Gen 1 Ports ( 4 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:** 0ºC to 60ºC (32ºF to 140ºF)

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

## Chassis Specifications:

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

**Expansion**
- Full Height Slots: 7
- Max Card Depth: 12.28"
- External 5.25" Bays: 3
- Internal 3.5" Bays: 2
- External 3.5" Bays: 1

**Front Ports**
- USB 2.0 Ports (Front): 2

**Cooling System**
- Maximum Fan Count: 2
- Included Fans: 1

**Physical**
- Depth: 17.70"
- Depth (Inches): 17.7
- Width: 19"
- Height: 7"
- Shipping Box - Depth: 26"
- Shipping Box - Width: 23"
- Shipping Box - Height: 12"
- Shipping Weight: 45lbs

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

- 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: 0ºC to 60ºC (32ºF to 140ºF )
- High Humidity: 95%
- Low Humidity: 10%

**Operating System Support**

- 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