3U Rack Mount Industrial PC Rackmount

Configuration Number: BASE CONFIG
SL-3U-LLQ870A-SS

Type:

- 3U Rack Mount Industrial PC
- Depth: 14.89", Max Card Depth: 324mm"

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 NVMe Only
- **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:** 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:** 700W SFX Form Factor Auto-Switching Power Supply, Fully Modular, 80+ Platinum
- **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: 3U Rackmount
- Color: Black
- Material: Metal/Steel
- Material Thickness: 1mm
- Motherboard Compatibility: E-ATX
- Slide Rails: Optional

Expansion
- Full Height Slots: 8
- Max Card Depth: 324mm"
- Internal 2.5" Bays: 1

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

Cooling System
- Maximum Fan Count: 3

Physical
- Depth: 14.89"
- Width: 17"
- Height: 5.22"
- Shipping Box - Depth: 21"
- Shipping Box - Width: 19"
- Shipping Box - Height: 9"
- Shipping Weight: 28lbs

Other Features
- Features:
    - 8x full height PCIe card slot cutouts
    - Maximum card height: 115mm
    - Maximum card length with 3x Noctua A12x25 fans: 324mm

- 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)
    - Maximum card length with Asetek 360mm AIO and Noctua A12x25 fans: 297mm
    - Maximum card length with no fans / no AIO cooler: 349mm
- Chassis Warranty: 1 Year

Power

- Remote Server Management:

- 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