

## 5U Rack Mount Workstation Rackmount

Configuration Number: BASE CONFIG  
SL-5U-LLQ870A-SA



(All view images available on web site)

### Type:

- 5U Rack Mount Workstation
- Depth: 20.87", Max Card Depth: Length: 455mm (without installing front fans and radiators)"

### 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 0,1,5
- **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
- Second LAN Chipset: Intel 2.5Gb Ethernet

### Chassis Specifications:

#### General

- Form Factor: 5U Rackmount
- Color: Black
- Material: Metal/Steel
- Material Thickness: 1mm
- Motherboard Compatibility: SSI EEB
- Redundant Power Supply Capable
- Slide Rails: Optional

#### Expansion

- Full Height Slots: 8
- Max Card Depth: Length: 455mm (without  
installing front fans and radiators)"
- Internal 3.5" Bays: 4
- Internal 2.5" Bays: 4

#### Front Ports

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

#### Cooling System

- Maximum Fan Count: 6
- Included Fans: 3

#### Physical

- Depth: 20.87"
- Width: 17.30"
- Height: 8.66"
- Shipping Weight: 71lbs

#### Other Features

- Features:  
Expansion card                      Length: 455mm (without  
installing front fans and

- 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

- Windows 11 Pro (64 Bit)

radiators)  
 Width w/ expansion card  
 retainer: 157mm  
 Width w/o expansion  
 card retainer: 198mm  
 Limitation of Height w/  
 CPU cooler expansion  
 card  
 retainer:  
 181mm  
 Height w/o  
 expansion  
 card  
 retainer:  
 192mm  
 Limitation of Height w/  
 PSU (Removal of 3.5" drive cage eliminates PSU depth limitation) Dimension Incl. rear fan cage: 440mm (W) x 220mm (H) x 530mm (D), 51.3 liters Excl. rear fan

|                                                                               |                            |
|-------------------------------------------------------------------------------|----------------------------|
| • Windows 11 Pro for WS (64 Bit)                                              | cage:                      |
| • Windows 11 IoT 2024 LTSC Value                                              | 440m                       |
| • Windows 11 IoT 2024 LTSC High End                                           | m                          |
| • RED HAT Enterprise LINUX SERVER BASIC                                       | (W) x                      |
| • RED HAT Enterprise LINUX WORKSTATION STANDARD                               | 220m                       |
| • RED HAT Enterprise LINUX SERVER STANDARD                                    | m (H)                      |
| • LINUX Ubuntu Desktop                                                        | x                          |
| • Ubuntu Server Edition                                                       | 485m                       |
|                                                                               | m                          |
|                                                                               | (D),                       |
| <b>Compliance of Component</b>                                                | 46.95                      |
| • CE                                                                          | liters                     |
| • FCC                                                                         | Incl.                      |
|                                                                               | rear                       |
| <b>Other Features</b>                                                         | fan                        |
| • Features:                                                                   | cage:                      |
| Expansion slots                                                               | 17.3"                      |
| 1x PCI Express 5.0 x16 slot (1 x16 mode / 2 x8 modes)                         | (W),                       |
|                                                                               | 8.66"                      |
| 1x PCI Express 4.0 x4 slot (x2 mode, open slot)                               | (H),                       |
|                                                                               | 20.87                      |
| 1x PCI Express 4.0 x4 slot (x4 mode, open slot)                               | " (D)                      |
| 1x PCI Express 5.0 x16 slot (x8 mode)                                         | Excl.                      |
|                                                                               | rear                       |
| 1x PCI Express 4.0 x4 slot (x2 mode, open slot)                               | fan                        |
| 1x PCI Express 4.0 x4 slot (x4 mode, open slot)                               | cage:                      |
|                                                                               | 17.3"                      |
| 1x PCI slot                                                                   | (W),                       |
|                                                                               | 8.66"                      |
| M.2 Slots                                                                     | (H),                       |
| 1x M.2 socket 1 (Key E, 2230) for WiFi/BT devices                             | 19.1"                      |
| Supporting Intel CNVi                                                         | (D)                        |
| 1x M.2 socket 3 (Key M, 2242/2260/2280) with PCIe 5.0 x4 mode supporting NVMe | • Chassis Warranty: 1 Year |
| 1x M.2 socket 3 (Key M, 2280) with PCIe 4.0 x4 mode supporting NVMe           |                            |
| • Motherboard Warranty: 1 Year                                                |                            |