1U Rack Mount Server Rackmount

Configuration Number: BASE CONFIG
SL-1U-LLQ670E-IR2

Type:

- 1U Rack Mount Server
- Depth: 15.48"

Motherboard:

- Featuring Intel Q670 Chipset and 14th/13th/12th Gen Intel Core™ i9/i7/i5/i3, LGA1700 processor
- **Long Production Cycle Motherboard (Through Q1 2029)**
- **LAN:** 3x Ports (2.5GbE + 2.5GbE + 1GbE)
- **RAID:** 0,1 and NVMe 0,1
- **Video:** 4x DisplayPort
- **Audio:** Realtek ALC897
- **Ports:**
  4x USB 2.0 Ports (4 Internal Headers)
  4x USB 3.2 Gen 1 Ports (2 Front, 2 Rear)
  3x USB 3.2 Gen 2 Ports (3 Rear)
  1x USB 3.2 Gen 2 Type-C Port (1 Rear)
  10x COM Ports (9 RS232 Internal Headers, 1 RS232/422/485 Rear)
  See specifications for more ports
- **Operating Temperature:** 0ºC to 60ºC (32ºF to 140ºF)

Configuration summary:

- **Processor:** i3-12100 - 3.30GHz (up to 4.30GHz) Intel Core CPU - 4 Core, 12MB Cache, UHD Graphics 730 (Base 60W, Max 89W) (ERM)
- **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:** 450W 80+ Platinum Flex Power Supply

- **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 2029

Supported CPU
- Number of Processors: 1
- Processor Type: 14th/13th/12th Gen Intel Core™ i9/i7/i5/i3, LGA1700

Chipset
- Chipset: Intel Q670 Chipset

Memory
- Memory Type: DDR5 4800MHz
- Memory Type: Non-ECC
- DIMMS: 4
- Maximum Memory: 128GB

On Board Audio
- Audio Type: Realtek ALC897

On Board Video
- Video Chipset: Supported by CPU - depends on CPU selected
- Video on IO: 4x DisplayPort
- Display Port Out: 4

LAN
- LAN Ports: 3
- LAN Type and IPMI: 2.5GbE + 2.5GbE + 1GbE
- LAN Chipset: Intel i226-V 2.5GbE Ethernet
- Second LAN Chipset: Intel i226-LM 2.5GbE Ethernet
- Third LAN Chipset: Intel i210AT
- Wireless LAN: No Integrated WLAN

Drive Interface
- SATA III Ports (6GB): 7
- RAID Type: Software RAID
- RAID Levels Supported on Motherboard: 0, 1, 5,

Chassis Specifications:

General
- Form Factor: 1U Rackmount
- Color: Black & Silver
- Material: SGCC
- Material Thickness: 1mm
- Motherboard Compatibility: ATX
- Slide Rails: Optional

Expansion
- Full Height Slots: 1
- Internal 3.5" Bays: 1
- 2.5" Hot Swap Bays: 2

Front Ports
- USB 3.2 Ports (Front): 2

Cooling System
- Maximum Fan Count: 3
- Included Fans: 2

Physical
- Depth: 15.48"
- Depth (Inches): 15.48
- Width: 16.93"
- Height: 1.71"
- Shipping Box - Depth: 592mm
- Shipping Box - Width: 518mm
- Shipping Box - Height: 155mm
- Shipping Weight: 12lbs

Other Features
- Features:
  Full height PCIe slot x 1 (via riser card and bracket)

  • External: slim ODD x 1, hot-swap 2.5" x 2
  • Internal: 3.5" HDD x 1

- Chassis Warranty: 1 Year

Power
- Built-in Chassis Power Supply: 450W 80+ Platinum Flex Power Supply

10

M.2 Slot Specs

- Total M.2 NVMe SSD Slots: 1
- M.2 Slot #1 Specs
- M.2 SATA SSD
- PCIe Signal
- 2242 - 22 mm x 42 mm.
- 2260 - 22 mm x 60 mm.
- 2280 - 22 mm x 80 mm.

Rear IO

- USB 3.2 Gen 1 Type A Ports (on IO): 2
- USB 3.2 Gen 2 Type A Ports (on IO): 3
- USB 3.2 Gen 2 Type C Ports (on I/O): 1
- Serial 232/422/485 Ports: 1
- Audio on IO

Headers

- USB 2.0 Ports (on Headers): 4
- USB 3.2 Gen 1 Ports (on Headers): 2
- USB 3.0 Type A Interal: 1
- Serial (via Headers): 9
- FAN Connectors: 4
- Digital I/O (8 Bit) On Headers
- Audio on Headers
- Chassis Intrusion
- TPM Support: Via 2.0 Header

Management Features

- Watch Dog

Environmental

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

Operating System Support

- Windows 10 Home (64 Bit)
- Windows 10 Pro (64-Bit)
- SL-Windows 11PRO to 10PRO 64bit
- Windows 10 IoT 2021 LTSC Value
- Windows 10 IoT 2021 LTSC High End
- 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
- Remote Server Management:

- Ubuntu Server Edition

Compliance of Component

- CE
- FCC

Other Features

- Features:
  PCIe Expansion Slots

  1x PCIe 5.0 x16 Slot 1 x16 mode/ 2 x8 mode)
  1x PCIe 4.0 x4 Slot (x4 mode)
  1x PCIe 5.0 x16 Slot (x8 mode)
  1x PCIe 4.0 x4 Slot (x4 mode)

  1x M.2 E key, Type 2230 for WIFI/BT device (PCIex1 & USB2.0&CNVI)

  1x M.2 M key, Type 2242/2260/2280 (PCIex4 /SATAmode) supports NVMe

- Motherboard Warranty: 1 Year

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