

1U Rack Mount Industrial PC Rackmount

Configuration Number: BASE CONFIG
SL-1U-LLQ870I-GC



Type:

- 1U Rack Mount Industrial PC
- Depth: 11", Max Card Depth: 6.5 inches"

Motherboard:

- Featuring Intel Q870 Chipset and Intel Core™ Ultra Processors (Series 2), LGA1851 processor
- **Long Production Cycle Motherboard (Through Q2 2030)**
- **LAN:** 1x Ports (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 Front)
 - 6x USB 3.2 Gen 1 Ports (4 Rear, 2 Internal Headers)
 - 3x USB 3.2 Gen 2 Ports (3 Rear)
 - 5x COM Ports (1 RS232 Rear, 3 RS232 Internal Headers, 1 RS232/422/485 Internal Headers)
- See specifications for more ports
- **Operating Temperature:** -40°C to 85°C (-40°F to 185°F)

Configuration summary:

- **Processor:** Intel Core Ultra 5 225 Processor - 10 Cores (6P + 4E), 20MB Cache, 121W (PL2)
- **Memory:** 8GB DDR5 5600MHz RAM Non-ECC Unbuffered SODIMM
- **Hard Drive:** 500GB M.2 2280 NVMe SSD or greater 5,000/3,000MB/s
- **Power Supply:** 220W Flex ATX Power Supply - 115/230VAC Auto switching

- **Operating System:** Not Included -
- **Warranty:** One-Year Depot Warranty

Technical Specifications

MotherBoard Specifications:

Motherboard Model

- Motherboard Type: MiniITX
- Long Production Cycle
- Long Life: YES
- EOL Date: Q2 2030

Supported CPU

- Number of Processors: 1
- Processor Type: Intel Core™ Ultra Processors (Series 2), LGA1851

Chipset

- Chipset: Intel Q870 Chipset

Memory

- Memory Type: SO DIMM DDR5 4800MHz
- Memory Type: Non-ECC
- DIMMS: 2
- Maximum Memory: 96GB

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: 1
- LAN Type and IPMI: 2.5GbE + 1GbE
- LAN Chipset: Intel i226-LM 2.5GbE Ethernet
- Second LAN Chipset: Intel i210
- 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

Chassis Specifications:

General

- Form Factor: 1U Rackmount
- Color: Black
- Material: Metal/Steel
- Material Thickness: 1mm
- Motherboard Compatibility: Mini ITX
- Slide Rails: Optional

Expansion

- Full Height Slots: 1
- Max Card Depth: 6.5 inches"
- Internal 2.5" Bays: 2

Front Ports

- USB 2.0 Ports (Front): 2

Cooling System

- Maximum Fan Count: 2
- Included Fans: 2

Physical

- Depth: 11"
- Depth (Inches): 11
- Width: 19.10"
- Height: 1.75"
- Shipping Box - Depth: 22"
- Shipping Box - Width: 15"
- Shipping Box - Height: 5"
- Shipping Weight: 15lbs

Other Features

- Chassis Warranty: 1 Year

M.2 Slot Specs

- Total M.2 NVMe SSD Slots: 1
- M.2 Slot #1 Specs
- 2280 - 22 mm x 80 mm.
- M.2 E-Key Slot
- PCIe Signal
- 2230 - 22 mm x 30 mm.

Rear IO

- USB 3.2 Gen 1 Type A Ports (on IO): 4
- USB 3.2 Gen 2 Type A Ports (on IO): 3
- 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): 2
- USB 3.0 Type A Internal: 1
- Serial (via Headers): 3
- Serial 232/422/485 Ports: 1
- FAN Connectors: 2
- Audio on Headers
- LVDS
- TPM Support: Via 2.0 Header

Management Features

- Watch Dog

Environmental

- Operating Temperature: -40°C to 85°C (-40°F to 185°F)
- High Humidity: 95%
- Low Humidity: 5%

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
- LINUX Ubuntu Workstation
- Ubuntu Server Edition

Compliance of Component

- CE
- FCC

Other Features

- Features:

Expansion Slots

1x PCI Express 5.0 x16 slot*

1x M.2 socket 1 (Key E, 2230) with PCIe and CNVi modes for WiFi/BT devices

1x M.2 socket 3 (Key M, 2280) with NVMe support

*Supports PCIe bifurcation (16X; 8X+8X; 8X+4X+4X).

* Access to PCI Express slot requires expansion slot and a riser in some chassis models. Please check Chassis Specification section for more information.

If you have any questions, please discuss with our Sales Engineers.

- Motherboard Warranty: 1 Year



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