

1U Rack Mount Industrial PC Rackmount

Configuration Number: BASE CONFIG
SL-1U-Q170-RD



**Front Available 5.25" Drive Bay,
Upgradable Removable Drive Cage, Only
10.2" Deep!**

Type:

- 1U Rack Mount Industrial PC
- Depth: 10.19"

Motherboard:

- Featuring Intel Q170 Chipset and 7th and 6th Gen Core i7/i5/i3 (LGA1151) processor
- **Long Production Cycle Motherboard (Through Q4 2025)**
- **LAN:** 2x Ports (1GbE + 1GbE)
- **RAID:** 0,1,5,10
- **Video:** DVI-I + HDMI + DisplayPort
- **Audio:** 7.1 Channel HD Audio by Realtek ALC888S
- **Ports:**
 - 4x USB 2.0 Ports (2 Front, 2 Internal Headers)
 - 6x USB 3.2 Gen 1 Ports (4 Rear, 2 Internal Headers)
 - 2x COM Ports (RS232 Rear)
 - See specifications for more ports
- **Operating Temperature:** 0°C to 60°C (32°F to 140°F)



Configuration summary:

- **Processor:** G4400 - 3.3GHz Intel Pentium Dual Core - 3MB Cache, HD Graphics 510 (54W) (ERM) or Better
- **Memory:** 8GB DDR4 2666MHz SODIMM RAM
- **Removable Drive Bay:** 2 x 2.5"

5mm-9.5mm HDD/SSD in 5.25" Hot Swap
Mobile Rack Cage with Fixed 3.5"
Drive/Device Bay.

- **Hard Drive:** 250GB NVMe SSD M.2 2.9GB/1.3GB - Samsung 980
- **Power Supply:** 150W 1U Flex ATX Power Supply
- **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: Q4 2025

Supported CPU

- Number of Processors: 1
- Processor Type: 7th and 6th Gen Core i7/i5/i3 (LGA1151)

Chipset

- Chipset: Intel Q170 Chipset

Memory

- Memory Type: DDR4 2133MHz
- Memory Type: Non-ECC
- DIMMS: 2
- Maximum Memory: 32GB

On Board Audio

- Audio Type: 7.1 Channel HD Audio by Realtek ALC888S

On Board Video

- Video Chipset: Intel HD Graphics
- Video on IO: DVI-I + HDMI + DisplayPort
- DVI-I Out: 1
- Display Port Out: 1
- HDMI Out: 1

LAN

- LAN Ports: 2
- LAN Type: 1GbE + 1GbE
- LAN Chipset: Intel i219V

Chassis Specifications:

General

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

Expansion

- Full Height Slots: 2
- External 5.25" Bays: 1
- Internal 2.5" Bays: 1

Front Ports

- USB 2.0 Ports (Front): 2

Cooling System

- Maximum Fan Count: 2
- Included Fans: 2

Physical

- Depth: 10.19"
- Width: 16.85"
- Height: 1.78"
- Shipping Box - Depth:
- Shipping Box - Width:
- Shipping Box - Height:
- Shipping Weight:

Other Features

- Features:
External 5.25" Bay for upgradable Removable Drive Cage.

- Second LAN Chipset: Intel i210AT
- Wireless LAN: No Integrated WLAN

- Chassis Warranty: 1 Year

Drive Interface

- SATA III Ports (6GB): 5
- RAID
- RAID Type: Software RAID
- RAID Levels Supported on Motherboard: 0, 1, 5, 10

Mini PCIe

- mini PCIe
- mSATA
- half and/or full size mini PCIe card: full/half size

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.
- 2280 - 22 mm x 80 mm.

Rear IO

- USB 3.2 Gen 1 Type A Ports (on IO): 4
- Serial (Rear IO): 2
- Audio on IO

Headers

- USB 2.0 Ports (on Headers): 4
- USB 3.2 Gen 1 Ports (on Headers): 2
- USB 2.0 Ports (Type A): 1
- FAN Connectors: 4
- Audio on Headers
- Chassis Intrusion
- TPM Support: Via 2.0 Header

Management Features

- AMT
- vPRO
- NMI
- Watch Dog

Environmental

- Operating Temperature: 0°C to 60°C (32°F to 140°F)
- High Humidity: 85%
- Low Humidity: 10%

Operating System Support

- Windows 7 Ultimate (64-bit)
- Windows 7 Pro (32-bit)
- Windows 7 Pro (64-bit)
- Windows 7 Pro (FES) 32-Bit

- Windows 7 Pro (FES) 64-Bit
- Windows 7 PRO (FES) DGS 32-BIT
- Windows 7 PRO (FES) DGS 64-BIT
- SL-Windows 10PRO to 7PRO 32-bit
- SL-Windows 10PRO to 7PRO 64-bit
- Windows Embedded 7 (32-Bit)
- Windows Embedded 7 (64-Bit)
- Windows 8.1 (32-bit)
- Windows 8.1 (64-bit)
- Windows 8.1 Pro (32-bit)
- Windows 8.1 Pro (64-bit)
- Windows Embedded 8 (32-bit)
- Windows Embedded 8 (64-bit)
- Windows 10 Home (64 Bit)
- Windows 10 Pro (64-Bit)
- Windows 10 Pro WS (64-Bit)
- SL-Windows 11PRO to 10PRO 64bit
- Windows 10 IoT Value
- Windows 10 IoT Ent
- Windows 10 IoT Value 2019 LTSC
- Windows 10 IoT Ent 2019 LTSC
- Windows 10 IoT 2021 LTSC Value
- Windows 10 IoT 2021 LTSC High End
- Windows Server 2012
- RED HAT Enterprise LINUX SERVER STANDARD
- LINUX Ubuntu Desktop
- Ubuntu Server Edition

Compliance of Component

- UL
- CE
- RoHS
- FCC

Other Features

- Other Features:
 - 1 PCI-E 3.0 x16
 - Mini-PCIe with mSATA support,
 - M.2 PCI-E 3.0 x4 with SATA support, M Key
 - M.2 Form Factor: 2242, 2280

* 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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