# 1U Rack Mount Server Rackmount

Configuration Number: BASE CONFIG
SL-1U-W680SAE-LG

## Type:

- 1U Rack Mount Server
- Depth: 14", Max Card Depth: 12.28"

## Motherboard:

- Featuring Intel W680 Chipset and 14th/13th/12th Gen Intel Core™ i9/i7/i5/i3 processor
- **Long Production Cycle Motherboard (Through Q2 2029)**
- **LAN:** 3x Ports (2.5GbE + 1GbE + IPMI)
- **RAID:** 0,1,5
- **Video:** 1x HDMI, 1x DisplayPort, 1x VGA, 1x DVI-D
- **Audio:** 7.1 Channel HD Audio by Realtek ALC888S
- **Ports:**
  4x USB 2.0 Ports ( 2 Front, 2 Rear )
  2x USB 3.2 Gen 1 Ports ( 2 Internal Headers )
  3x USB 3.2 Gen 2 Ports ( 3 Rear )
  1x COM Port (RS232 Internal Headers)
  See specifications for more ports
- **Operating Temperature:** 0ºC to 50ºC (32ºF to 122ºF)

## 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:** 8GB DDR5 4800MHz RAM Non-ECC Unbuffered DIMM
- **Hard Drive:** 250GB NVMe SSD M.2 2.9GB/1.3GB - Samsung 980
- **Power Supply:** 200W ATX12V Power

Supply
- **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: Q2 2029

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

### Chipset
- Chipset: Intel W680 Chipset

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

### On Board Audio
- Audio Type: 7.1 Channel HD Audio by Realtek ALC888S

### On Board Video
- Video Chipset: Supported by CPU - depends on CPU selected
- Video on IO: 1x HDMI, 1x DisplayPort, 1x VGA, 1x DVI-D
- VGA Port Out: 1
- DVI-D Out: 1
- Display Port Out: 1
- HDMI Out: 1

### LAN
- LAN Ports: 3
- LAN Type: 2.5GbE + 1GbE + IPMI
- LAN Chipset: Intel 2.5Gb Ethernet
- Second LAN Chipset: Intel i219LM
- Third LAN Chipset: Dedicated IPMI
- Wireless LAN: No Integrated WLAN

## Chassis Specifications:

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

### Expansion
- Full Height Slots: 1
- Max Card Depth: 12.28"
- Internal 3.5" Bays: 1

### Front Ports
- USB 2.0 Ports (Front): 2

### Cooling System
- Maximum Fan Count: 1
- Included Fans: 1

### Physical
- Depth: 14"
- Depth (Inches): 14
- Width: 16.80"
- Height: 1.70"
- Shipping Box - Depth: 22"
- Shipping Box - Width: 21"
- Shipping Box - Height: 7"
- Shipping Weight: 20lbs

### Compliance of Component
- UL
- CE
- FCC

### Other Features
- Chassis Warranty: 1 Year

### Power
- Built-in Chassis Power Supply: 200W ATX12V Power Supply

### Drive Interface

- SATA III Ports (6GB): 8
- RAID
- RAID Type: Software RAID
- RAID Levels Supported on Motherboard: 0, 1, 5, 10

### M.2 Slot Specs

- Total M.2 NVMe SSD Slots: 3
- M.2 Slot #1 Specs
- PCIe Signal
- 2280 - 22 mm x 80 mm.
- M.2 Slot #2 Specs
- PCIe Signal
- 2280 - 22 mm x 80 mm.
- M.2 Slot #3 Specs
- PCIe Signal
- 2280 - 22 mm x 80 mm.

### Rear IO

- USB 2.0 Ports (on IO): 2
- USB 3.2 Gen 2 Type A Ports (on IO): 3
- USB 3.2 Gen 2x2 Type C Ports (on I/O): 1

### Headers

- USB 2.0 Ports (on Headers): 2
- USB 3.2 Gen 1 Ports (on Headers): 2
- USB 3.0 Type A Interal: 1
- Serial (via Headers): 1
- FAN Connectors: 5
- Chassis Intrusion
- TPM Support: Via 2.0 Header

### Management Features

- vPRO
- Watch Dog

### Environmental

- Operating Temperature: 0ºC to 50ºC (32ºF to 122ºF )
- High Humidity: 90%
- Low Humidity: 5%

### Operating System Support

- 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 2019 LTSC
- Windows 10 IoT Ent 2019 LTSC
- Windows 10 IoT 2021 LTSC Value
- Windows 10 IoT 2021 LTSC High End

- Remote Server Management:

- Windows 11 Home (64 Bit)
- 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 SERVER STANDARD
- LINUX Ubuntu Desktop
- Ubuntu Server Edition

**Compliance of Component**

- CE
- FCC

**Other Features**

- Other Features:
  PCI-E

    - 2 PCI-E 3.0 x4,
    - 2 PCI-E 5.0 x16 slots (16/NA or 8/8)
    - 1 - 5V PCI 32bit

  * 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