

1U Rack Mount Server Rackmount

Configuration Number: BASE CONFIG

SL-1U-W680SAEB-IR2





Type:

- 1U Rack Mount Server
- Depth: 15.48"

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:** 2x Ports (2.5GbE + 1GbE)
- **RAID:** 0.1
- Video: 1x DVI-D, 1x HDMI, 2x DisplayPort
- Audio: 7.1 Channel HD Audio by Realtek ALC888S
- Ports:
 - 4x USB 2.0 Ports (2 Rear, 2 Internal Headers)
 - 2x USB 3.2 Gen 1 Ports (2 Front)
 - 3x USB 3.2 Gen 2 Ports (3 Rear)
 - 1x COM Port (RS232 Internal Headers)
 - See specifications for more ports
- Operating Temperature: 0°C to 50°C (32°F to 122°F)

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: 500GB M.2 2280 NVMe SSD or greater 5,000/3,000MB/s
- Power Supply: 315W
- Operating System: Not Included -

Technical Specifications

MotherBoard Specifications:

Motherboard Model

Motherboard Type: ATXLong Production Cycle

Long Life: YESEOL 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 4800MHzMemory 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 DVI-D, 1x HDMI, 2x DisplayPort

DVI-D Out: 1Display Port Out: 1

HDMI Out: 1

LAN

• LAN Ports: 2

• LAN Type: 2.5GbE + 1GbE

• LAN Chipset: Intel I225-V 2.5GbE Ethernet

Second LAN Chipset: Intel i219LMWireless LAN: No Integrated WLAN

Drive Interface

• SATA III Ports (6GB): 8

RAID

• RAID Type: Software RAID

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: 1Internal 3.5" Bays: 12.5" 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: 315W

• Remote Server Management:

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
- PCle 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: 0°C to 50°C (32°F to 122°F)
- 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
- 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



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