

3U Rack Mount Industrial PC Rackmount

Configuration Number: BASE CONFIG

SL-3U-W680SAE-SR





Type:

- 3U Rack Mount Industrial PC
- Depth: 14.89", Max Card Depth: 324mm"

Motherboard:

- Featuring Intel W680 Chipset and 14th/13th/12th Gen Intel Core™ i9/i7/i5/i3 processor
- Long Production Cycle Motherboard (Through Q2 2029)
- Full Height Slots:
 - 2 PCle x16
 - 2 PCle x4
 - 1 PCI
- LAN: 3x Ports (2.5GbE + 1GbE + IPMI)
- **RAID:** 0,1,5,10
- 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 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: 700W SFX Form Factor Auto-Switching Power Supply, Fully Modular, 80+ Platinum
- Operating System: Not Included -Warranty: One-Year Depot Warranty

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 HDMI, 1x DisplayPort, 1x VGA, 1x

VGA Port Out: 1DVI-D Out: 1

• Display Port Out: 1

• HDMI Out: 1

LAN

• LAN Ports: 3

Chassis Specifications:

General

Form Factor: 3U RackmountFront Changeable Air Filter

• Color: Black

Material: Metal/SteelMaterial Thickness: 1mm

• Motherboard Compatibility: E-ATX

• Slide Rails: Optional

Expansion

• Full Height Slots: 8

• Max Card Depth: 324mm"

External 3.5" Bays: 1Internal 2.5" Bays: 2

Front Ports

• USB 3.2 Ports (Front): 2

• USB Type-C (Front): 1

Cooling System

• Maximum Fan Count: 2

Physical

• Depth: 14.89"

Width: 17"Height: 5.22"

Shipping Box - Depth: 24"

Shipping Box - Width: 23"Shipping Box - Height: 11"

• Shipping Weight: 28lbs

Other Features

• Features:

• 8x full height PCIe card slot cutouts

• Maximum card height: 115mm

- 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

Drive Interface

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

Expansion Slots

- PCI Express x16 Slots On Motherboard: 2
- PCI Express x4 Slots On Motherboard: 2
- PCI Slots (Conventional 32-Bit): 1

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
- PCle 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%

- Maximum card length with 3x Noctua A12x25 fans: 324mm
- Maximum card length with Asetek 360mm AlO and Noctua A12x25 fans: 297mm
- Maximum card length with no fans / no AIO cooler: 349mm
- Chassis Warranty: 1 Year

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

