

## 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 - PCIe x16
  - 2 - PCIe 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:** 16GB DDR5 5600MHz 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: 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

## Chassis Specifications:

### **General**

- Form Factor: 3U Rackmount
- Front Changeable Air Filter
- Color: Black
- Material: Metal/Steel
- Material Thickness: 1mm
- Motherboard Compatibility: E-ATX
- Slide Rails: Optional

### **Expansion**

- Full Height Slots: 8
- Max Card Depth: 324mm"
- External 3.5" Bays: 1
- Internal 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

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

- Chassis Warranty: 1 Year

#### **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
  - 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 Internal: 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