

## 2U Rack Mount Industrial PC Rackmount

Configuration Number: BASE CONFIG

SL-2U-W680SAE-DN





## Type:

- 2U Rack Mount Industrial PC
- Depth: 17.72"

## Motherboard:

- Featuring Intel W680 Chipset and 14th/13th/12th Gen Intel Core™ i9/i7/i5/i3 processor
- Long Production Cycle Motherboard (Through Q2 2029)
- Low Profile Slots:
  - 2 PCle 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: 8GB DDR5 4800MHz RAM Non-

## **ECC Unbuffered DIMM**

- Hard Drive: 500GB M.2 2280 NVMe SSD or greater 5 000/3 000MB/s
  - or greater 5,000/3,000MB/s
- **Power Supply:** 800W 1+1 redundant PSU 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 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

## Chassis Specifications:

#### **General**

• Form Factor: 2U Rackmount

• Color: Black

Material: Metal/SteelMaterial Thickness: 1mm

Motherboard Compatibility: E-ATXRedundant Power Supply Capable

• Slide Rails: Optional

#### **Expansion**

Low Profile Slots: 72.5" Hot Swap Bays: 4

## Front Ports

• USB 3.2 Ports (Front): 2

#### **Cooling System**

• Maximum Fan Count: 4

• Included Fans: 4

## **Physical**

• Depth: 450mm

• Depth (Inches): 17.7

• Width: 438mm

• Height: 88mm

• Shipping Box - Depth: 580mm

• Shipping Box - Width: 655mm

• Shipping Box - Height: 244mm

• Shipping Weight: 29lbs

## **Power**

 Built-in Chassis Power Supply: 800W 1+1 redundant PSU 80+ Platinum

• Remote Server Management:

- 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,

#### **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
- PCle 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%

## **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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