2U Rack Mount Industrial PC Rackmount

Configuration Number: BASE CONFIG
SL-2U-W680SAE-DB

(full size images available on web site)

Type:

- 2U Rack Mount Industrial PC
- Depth: 17", Max Card Depth: 9 inches"

Motherboard:

- Featuring Intel W680 Chipset and 14th/13th/12th Gen Intel Core™ i9/i7/i5/i3, LGA1700 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:** 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:** 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:** 400W Full Range Input 1U Power Supply - Active PFC 80 Plus Bronze
- **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, LGA1700

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: 2U Rackmount
- Color: Black
- Material: Metal/Steel
- Material Thickness: 1mm
- Motherboard Compatibility: ATX
- Slide Rails: Optional

Expansion
- Full Height Slots: 3
- Max Card Depth: 9 inches"
- External 5.25" Bays: 1
- Internal 3.5" Bays: 3
- External 3.5" Bays: 1

Front Ports
- USB 3.2 Ports (Front): 2

Cooling System
- Maximum Fan Count: 3
- Included Fans: 3

Physical
- Depth: 17"
- Depth (Inches): 17
- Width: 19"
- Height: 3.50"
- Shipping Box - Depth: 24"
- Shipping Box - Width: 23"
- Shipping Box - Height: 8"
- Shipping Weight: 31lbs

Compliance of Component
- RoHS

Other Features

- LAN Type and IPMI: 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

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)
- Chassis Warranty: 1 Year

Power

- Remote Server Management:

- 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 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