

## 4U Rack Mount Industrial PC Rackmount

Configuration Number: BASE CONFIG  
SL-4U-SBC-R680-HA



(Full size images available on web site)

### Type:

- 4U Rack Mount Industrial PC
- Depth: 17.70", Max Card Depth: 12.28", Locking Front Bezel

### Motherboard:

- Featuring Intel R680E Chipset and 13th Gen Intel Core™ Processors (LGA1700) processor
- **Long Production Cycle Motherboard (Through Q1 2029)**
- **Full Height Slots:**
  - 1 - PCIe x16
  - 3 - PCIe x1
  - 8 - PCI
- **LAN:** 2x Ports (2.5GbE + 2.5GbE)
- **RAID:** 0,1,5,10
- **Video:** DVI-I + DisplayPort (internal header)
- **Audio:** No Onboard Audio
- **Ports:**
  - 3x USB 2.0 Ports ( 2 Front, 1 Internal Headers )
  - 2x USB 3.2 Gen 2 Ports ( 2 Rear )
  - 2x USB 3.2 Gen 2 Type-C Ports ( 2 Internal Headers )
  - 4x COM Ports (2 RS232 Internal Headers, 2 RS232/422/485 Internal Headers)
  - 1x Parallel Port (Headers)
- See specifications for more ports
- **Operating Temperature:** 0°C to 60°C (32°F to 140°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:** 250GB NVMe SSD M.2 2.9GB/1.3GB - Samsung 980
- **Power Supply:** 600W Power Supply
- **Operating System:** Not Included -
- **Warranty:** One-Year Depot Warranty

## Technical Specifications

### MotherBoard Specifications:

#### Motherboard Model

- Motherboard Type: Single Board Computer (SBC)
- Long Production Cycle
- Long Life: YES
- EOL Date: Q1 2029
- PICMG: 1.3

#### Supported CPU

- Number of Processors: 1
- Processor Type: 13th Gen Intel Core™ Processors (LGA1700)

#### Chipset

- Chipset: Intel R680E Chipset

#### Memory

- Memory Type: DDR5 4400MHz
- Memory Type: Non-ECC
- DIMMS: 4
- Maximum Memory: 128GB

#### On Board Audio

- Audio Type: No Onboard Audio

#### On Board Video

- Video Chipset: Supported by CPU - depends on CPU selected
- Video on IO: DVI-I + DisplayPort (internal header)
- DVI-I Out: 1

#### LAN

- LAN Ports: 2
- LAN Type: 2.5GbE + 2.5GbE
- LAN Chipset: Intel i226-LM 2.5GbE Ethernet
- Second LAN Chipset: Intel i226-V 2.5GbE Ethernet

### Chassis Specifications:

#### General

- Form Factor: 4U Rackmount
- Color: Black
- Material: Metal/Steel
- Material Thickness: 1mm
- Motherboard Compatibility: 14-Slot SBC
- Redundant Power Supply Capable
- Slide Rails: Optional

#### Expansion

- Full Height Slots: 14
- Max Card Depth: 12.28"
- External 5.25" Bays: 3
- Internal 3.5" Bays: 2
- External 3.5" Bays: 1

#### Front Ports

- USB 2.0 Ports (Front): 2

#### Cooling System

- Maximum Fan Count: 2
- Included Fans: 1

#### Physical

- Depth: 17.70"
- Depth (Inches): 17.7
- Width: 19"
- Height: 7"
- Shipping Box - Depth: 26"
- Shipping Box - Width: 23"
- Shipping Box - Height: 12"
- Shipping Weight: 45lbs

#### Other Features

- Wireless LAN: No Integrated WLAN

- Chassis Warranty: 1 Year

### **Drive Interface**

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

### **M.2 Slot Specs**

- Total M.2 NVMe SSD Slots: 1
- M.2 Slot #1 Specs
- 2280 - 22 mm x 80 mm.

### **Rear IO**

- USB 3.2 Gen 2 Type A Ports (on IO): 2

### **Headers**

- USB 2.0 Ports (on Headers): 3
- USB 3.2 Gen 2 Type-C (on Headers): 2
- Serial (via Headers): 2
- Serial 232/422/485 Ports: 2
- Parallel Ports: 1
- FAN Connectors: 3
- Audio on Headers
- PS/2 Combo (Mouse/Keyboard) on Headers
- TPM Support: 2.0 Module Included

### **Management Features**

- AMT
- vPRO

### **Environmental**

- Operating Temperature: 0°C to 60°C (32°F to 140°F )
- High Humidity: 95%
- Low Humidity: 10%

### **Operating System Support**

- SL-Windows 11PRO to 10PRO 64bit
- 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
- LINUX Ubuntu Desktop
- Ubuntu Server Edition

### **Compliance of Component**

- CE

### **Other Features**

- Motherboard Warranty: 1 Year



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