

## 4U Rack Mount Industrial PC Rackmount

Configuration Number: BASE CONFIG  
SL-4U-WRX80-SGII-ST



(Not all images available on web site)

### Liquid Cooled Rack Mount

#### Type:

- 4U Rack Mount Industrial PC
- Depth: 16.89", Max Card Depth: 375mm"

#### Motherboard:

- Featuring AMD WRX80 and AMD Socket sWRX8 for Ryzen™ Threadripper™ PRO Series processor
- **Full Height Slots:**  
7 - PCIe x16
- **LAN:** 2x Ports (10GbE + 10GbE )
- **WiFi:** Wi-Fi 6E + BT
- **RAID:** 0,1,5,10
- **Video:** None
- **Audio:** Realtek ALC4080 codec
- **Ports:**  
4x USB 2.0 Ports ( 4 Internal Headers )  
2x USB 3.2 Gen 1 Ports ( 2 Front )  
8x USB 3.2 Gen 2 Ports ( 8 Rear )  
2x USB 3.2 Gen 2 Type-C Ports ( 1 Rear, 1 Internal Headers )  
1x COM Port (RS232 Internal Headers)  
See specifications for more ports
- **Operating Temperature:** 0°C to 40°C (32°F to 104°F)

#### Configuration summary:

- **Processor:** i7-9800X - 3.8GHz (up to 4.4GHz) Intel Octa (8) Core CPU - 16.5MB Cache, No Onboard Graphics (165W)
- **Memory:** 2 x 8GB DDR4 3200MHz OC RAM
- **Hard Drive:** 1TB PCIe 4.0 NVMe SSD M.2 7,450/6,900MB/s - Samsung 990 PRO

- **Add-In Graphic Card:** NVIDIA RTX A400 4GB GDDR6, PCI Express 4.0 x16 - 4x Mini DisplayPort - Low Profile and Full Height Compatible
- **Power Supply:** 850W ATX12V / EPS12V Full Modular Power Supply - 80+ Gold Certified
- **Operating System:** Not Included -
- **Warranty:** One-Year Depot Warranty

# Technical Specifications

## MotherBoard Specifications:

### Motherboard Model

- Motherboard Type: Extended ATX

### Supported CPU

- Number of Processors: 1
- Processor Type: AMD Socket sWRX8 for Ryzen™ Threadripper™ PRO Series

### Chipset

- Chipset: AMD WRX80

### Memory

- Memory Type: DDR4 3200MHz
- Memory Type: ECC Registered
- DIMMS: 8
- Maximum Memory: 2048GB

### On Board Audio

- Audio Type: Realtek ALC4080 codec

### On Board Video

- Video Chipset: None
- Video on IO: None

### LAN

- LAN Ports: 2
- LAN Type: 10GbE + 10GbE
- LAN Chipset: Intel X550-AT2 10GBase-T
- Second LAN Chipset: Intel X550-AT2 10GBase-T
- Wireless LAN: Wi-Fi 6E + BT

### Drive Interface

- SATA III Ports (6GB): 8
- RAID
- RAID Type: Software RAID

## Chassis Specifications:

### General

- Form Factor: 4U Rackmount
- Front Changeable Air Filter
- Color: Black
- Material: Metal/Steel
- Material Thickness: 1mm
- Motherboard Compatibility: SSI CEB
- Redundant Power Supply Capable
- Slide Rails: Optional

### Expansion

- Full Height Slots: 8
- Max Card Depth: 375mm"
- Internal 3.5" Bays: 3
- Internal 2.5" Bays: 8

### Front Ports

- USB 3.2 Ports (Front): 2
- USB Type-C (Front): 1

### Cooling System

- Maximum Fan Count: 3

### Physical

- Depth: 16.89"
- Depth (Inches): Click Available Downloads Tab > Mechanical Drawings.
- Width: 17"
- Height: 6.96"
- Shipping Box - Depth: 21"
- Shipping Box - Width: 21"
- Shipping Box - Height: 11"
- Shipping Weight: 30lbs

- RAID Levels Supported on Motherboard: 0, 1, 5, 10

#### **Expansion Slots**

- PCI Express x16 Slots On Motherboard: 7

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

- Total M.2 NVMe SSD Slots: 3
- M.2 Slot #1 Specs
  - M.2 SATA SSD
  - PCIe Signal
  - 22110 - 22 mm x 110 mm.
  - 2242 - 22 mm x 42 mm.
  - 2260 - 22 mm x 60 mm.
  - 2280 - 22 mm x 80 mm.
- M.2 Slot #2 Specs
  - M.2 SATA SSD
  - PCIe Signal
  - 2242 - 22 mm x 42 mm.
  - 2260 - 22 mm x 60 mm.
  - 2280 - 22 mm x 80 mm.
  - 22110 - 22 mm x 110 mm.
- M.2 Slot #3 Specs
  - M.2 SATA SSD
  - PCIe Signal
  - 2242 - 22 mm x 42 mm.
  - 2260 - 22 mm x 60 mm.
  - 2280 - 22 mm x 80 mm.
  - 22110 - 22 mm x 110 mm.

#### **Rear IO**

- USB 3.2 Gen 2 Type A Ports (on IO): 8
- USB 3.2 Gen 2 Type C Ports (on I/O): 1
- USB 3.2 Gen 2x2 Type C Ports (on I/O): 1
- SPDIF Connector: 1
- Audio on IO

#### **Headers**

- USB 2.0 Ports (on Headers): 4
- USB 3.2 Gen 1 Ports (on Headers): 2
- USB 3.2 Gen 2 Type-C (on Headers): 1
- Serial (via Headers): 1
- FAN Connectors: 8
- Audio on Headers
- TPM Support: Via 2.0 Header

#### **Environmental**

- Operating Temperature: 0°C to 40°C (32°F to 104°F )
- High Humidity: 90%
- Low Humidity: 20%

#### **Operating System Support**

#### **Other Features**

- Features:
  - 8x full height PCIe card slot cutouts
  - Maximum card height: 158mm (card and power connector must be ≤158mm tall)
  - Maximum card length: 375mm (with 25mm thick front fans)
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  - LIQUID COOLING NOTE: radiators reduce the available depth inside the case for long GPUs
  - Inside of case is 399mm deep
  - Thickness of radiator + thickness of case fans + GPU length must equal less than 399mm total.
- Chassis Warranty: 1 Year

- Windows 10 Home (64 Bit)
- Windows 10 Pro (64-Bit)
- Windows 10 Pro WS (64-Bit)
- SL-Windows 11PRO to 10PRO 64bit
- Windows 11 Pro (64 Bit)
- Windows 11 Pro for WS (64 Bit)
- Windows 11 IoT 2024 LTSC High End
- LINUX Ubuntu Desktop
- Ubuntu Server Edition

#### **Compliance of Component**

- CE

#### **Other Features**

- Features:

AMD Ryzen™ Threadripper™ PRO Series Processors

7 x PCIe 4.0/3.0 x16 slot(s)\*

\* Support PCIe bandwidth bifurcation for RAID on CPU function.

Total supports 3 x M.2 slots and 8 x SATA 6Gb/s ports

AMD Ryzen™ Threadripper™ PRO Series Processors

M.2\_1 slot (Key M), type 2242/2260/2280/22110 (supports PCIe 4.0 x4 & SATA modes)

M.2\_2 slot (Key M), type 2242/2260/2280/22110 (supports PCIe 4.0 x4 & SATA modes)

U.2\_1 slot supports U.2 NVMe device and up to 4 SATA devices\*

AMD WRX80 Chipset

M.2\_3 slot (Key M), type 2242/2260/2280/22110 (supports PCIe 4.0 x4 & SATA modes)

U.2\_2 slot supports U.2 NVMe device and up to 4 SATA devices\*

4 x SATA 6Gb/s ports

ASMedia ASM1061 Controller

4 x SATA 6Gb/s ports

Supports NVMe RAID configurations via M.2 storages

\*The U.2\_1 slot shares bandwidth with M.2\_2, U.2\_2 slot shares bandwidth with M.2\_3. When M.2\_2 slot is being populated, U.2\_1 slot will be disabled. When M.2\_3 slot is being populated, U.2\_2 slot will be disabled. Each U.2 slots can support up to 4 SATA devices via a transfer cable. the cable is purchased separately.

- Motherboard Warranty: 1 Year



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