

## 4U Rack Mount Server Rackmount

Configuration Number: BASE CONFIG  
SL-4U-W790ACE-SD



### Type:

- 4U Rack Mount Server
- Depth: 16.89", Max Card Depth: 375mm (with 25mm thick front fans)"

### Motherboard:

- Featuring Intel W790 Chipset and Intel Socket LGA4677 for Xeon W-3400 Series processor
- **Full Height Slots:**
  - 5 - PCIe x16
- **LAN:** 2x Ports (2.5GbE + 10GbE )
- **RAID:** 0,1,5,10 and NVMe 0,1 RAID Intel VROC
- **Video:** None
- **Audio:** 8-Channel High Definition Audio CODEC Realtek ALC S1220A
- **Ports:**
  - 12x USB 2.0 Ports ( 8 Rear, 4 Internal Headers )
  - 2x USB 3.2 Gen 1 Ports ( 2 Front )
  - 4x USB 3.2 Gen 2 Ports ( 4 Rear )
  - 1x USB 3.2 Gen 2 Type-C Port ( 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:** Intel Xeon W3-2425 W-2400 Series CPU (6 Core) - 3.0 GHz (Up to 4.4GHz) - 15MB Cache (156W)
- **Memory:** 4 x 16GB DDR5 4800MHz ECC Registered RAM
- **Hard Drive:** 500GB M.2 2280 NVMe SSD

or greater 5,000/3,000MB/s

- **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: SSI CEB

#### Supported CPU

- Number of Processors: 1
- Processor Type: Intel Socket LGA4677 for Xeon W-3400 Series

#### Chipset

- Chipset: Intel W790 Chipset

#### Memory

- Memory Type: DDR5 4800MHz ECCR
- Memory Type: ECC Registered
- DIMMS: 8
- Maximum Memory: 2048GB

#### On Board Audio

- Audio Type: 8-Channel High Definition Audio CODEC Realtek ALC S1220A

#### On Board Video

- Video Chipset: None
- Video on IO: None

#### LAN

- LAN Ports: 2
- LAN Type: 2.5GbE + 10GbE
- LAN Chipset: Intel 2.5Gb Ethernet
- Second LAN Chipset: Marvell AQtion 10Gb Ethernet
- Wireless LAN: No Integrated WLAN

#### Drive Interface

### 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 (with 25mm thick front fans)"
- External 5.25" Bays: 1
- 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"

- SATA III Ports (6GB): 4
- RAID
- RAID Type: Hardware RAID
- RAID Levels Supported on Motherboard: 0, 1, 5, 10

#### **Expansion Slots**

- PCI Express x16 Slots On Motherboard: 5

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

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

#### **Rear IO**

- USB 2.0 Ports (on IO): 8
- USB 3.2 Gen 2 Type A Ports (on IO): 4
- 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: 7
- 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**

- 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

#### **Compliance of Component**

- RoHS

- Shipping Box - Height: 11"
- Shipping Weight: 30lbs

#### **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.
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- Chassis Warranty: 1 Year

#### **Power**

- Remote Server Management:

- FCC

### **Other Features**

- Features:

Intel Xeon™ W-3400 and W-2400

Series Processors

5 x PCIe 5.0 x16 slot(s) (supports x16, x16, x16,  
x0/x8, x16/x8 modes)

Total supports 2 x M.2 slots, 4 x SATA 6Gb/s ports  
and 3 x SlimSAS ports\*

Intel W790 Chipset\*\*

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

M.2\_2 slot (Key M), type 2280 (supports PCIe 4.0  
x4 mode)

SlimSAS\_1 slot supports PCIe 3.0 x4 mode NVMe  
device

SlimSAS\_2 slot supports PCIe 4.0 x4 mode or up  
to 4 SATA devices via a transfer cable. The cable  
is purchased separately.

SlimSAS\_3 slot supports PCIe 4.0 x4 mode NVMe  
device

4 x SATA 6Gb/s ports\*

\* Supports Intel Virtual RAID on CPU (Intel VROC)  
and Intel Volume Management Device (IntelVMD)

\*\* Intel VROC Technology supports PCIe RAID  
0/1/5/10, SATA RAID 0/1/5/10. VROC HW\_Key is  
purchased separately.

- Motherboard Warranty: 1 Year



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