4U Rack Mount Server Rackmount

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

Type:

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

Motherboard:

- Featuring Intel W790 Chipset and Intel Xeon W-3400 Series, LGA4677 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:** 0ºC to 40ºC (32ºF to 104ºF)

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 5600MHz 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 Xeon W-3400 Series, LGA4677

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 and IPMI: 2.5GbE + 10GbE
- LAN Chipset: Intel 2.5Gb Ethernet
- Second LAN Chipset: Marvell AQtion 10Gb Ethernet
- Wireless LAN: No Integrated WLAN

Drive Interface
- SATA III Ports (6GB): 4
- 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

Other Features

- 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: 0ºC to 40ºC (32ºF to 104ºF)
- 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
- FCC

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)
    -
    - 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

- 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 perchased seperately.
  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