5U Rack Mount Workstation Rackmount

Configuration Number: BASE CONFIG
SL-5U-W790SAGE-ST

Type:

- 5U Rack Mount Workstation
- Depth: 20.87", Max Card Depth: Length: 455mm (without installing front fans and radiators)"

Motherboard:

- Featuring Intel W790 Chipset and Intel Xeon W-3400 Series, LGA4677 processor
- **Full Height Slots:**
  7 - PCIe x16
- **LAN:** 2x Ports (10GbE + 10GbE + IPMI)
- **RAID:** 0,1,5,10 and NVMe 0,1,5 RAID Intel VROC
- **Video:** 1x VGA
- **Audio:** 8-Channel High Definition Audio CODEC Realtek ALC S1220A
- **Ports:**
  6x USB 2.0 Ports (2 Rear, 4 Internal Headers)
  2x USB 3.2 Gen 1 Ports (2 Front)
  4x USB 3.2 Gen 2 Ports (4 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:** 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:** 1TB PCIe 4.0 NVMe SSD M.2

7,450/6,900MB/s - Samsung 990 PRO
- **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 EEB

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: ASPEED AST2600 BMC
- Video on IO: 1x VGA
- VGA Port Out: 1

LAN
- LAN Ports: 2
- LAN Type and IPMI: 10GbE + 10GbE + IPMI
- LAN Chipset: Intel 10Gb Ethernet
- Second LAN Chipset: Intel 10Gb Ethernet
- Wireless LAN: No Integrated WLAN

Drive Interface
- SATA III Ports (6GB): 8
- RAID
- RAID Type: Hardware RAID
- RAID Levels Supported on Motherboard: 0, 1, 5,

Chassis Specifications:

General
- Form Factor: 5U Rackmount
- Color: Black
- Material: Metal/Steel
- Material Thickness: 1mm
- Motherboard Compatibility: SSI EEB
- Redundant Power Supply Capable
- Slide Rails: Optional

Expansion
- Full Height Slots: 8
- Max Card Depth: Length: 455mm (without installing front fans and radiators)"
- Internal 3.5" Bays: 4
- Internal 2.5" Bays: 4

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

Cooling System
- Maximum Fan Count: 6
- Included Fans: 3

Physical
- Depth: 20.87"
- Width: 17.30"
- Height: 8.66"
- Shipping Weight: 71lbs

Other Features
- Features:

Expansion card	Length: 455mm (without installing front fans and radiators) Width w/ expansion card retainer: 157mm

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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
- 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
- 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
- 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 2.0 Ports (on IO): 2
- USB 3.2 Gen 2 Type A Ports (on IO): 4
- 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: 7
- Chassis Intrusion
- TPM Support: Via 2.0 Header

Management Features

- Watch Dog

Environmental

- Operating Temperature: 0ºC to 40ºC (32ºF to 104ºF)
- High Humidity: 85%
- Low Humidity: 10%

Operating System Support

Width w/o expansion card retainer: 198mm	
Limitation of CPU cooler	Height w/ expansion card retainer: 181mm Height w/o expansion card retainer: 192mm
Limitation of PSU	160mm~190mm (Removal of 3.5" drive cage eliminates PSU depth limitation)
Dimension	Incl. rear fan cage: 440mm (W) x 220mm (H) x 530mm (D), 51.3 liters Excl. rear fan cage: 440mm

- 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

Compliance of Component

- CE
- RoHS
- FCC

Other Features

- Other Features:
  Intel Xeon W-3400 Series Processors*
  7 x PCIe 5.0 slot(s) (Seven at x16/x16/x16/x16/x16/x8/x16)**
  Intel Xeon W-2400 Series Processors*
  4 x PCIe 5.0 slot(s) (Four at x16/x16/x16/x16)**
  * Please check the PCIe bifurcation table on the support site (https://www.asus.com/support/FAQ/1037507/).
  ** Please refer to the block diagrams in the Appendix for more details.
  - To ensure compatibility of the device installed, please refer to https://www.asus.com/support/ for the list of supported peripherals.

  Total supports 3 x M.2 slots, 2 x SlimSAS slots and 8 x SATA 6Gb/s ports*
  Intel Xeon W-3400 Series Processors
  M.2_1 slot (Key M), type 2242/2260/2280/22110 (supports PCIe 5.0 x4 mode)***
  M.2_2 slot (Key M), type 2242/2260/2280/22110 (supports PCIe 5.0 x4 mode)***
  Intel W790 Chipet**
  M.2_3 slot (Key M), type 2242/2260/2280/22110 (supports PCIe 4.0 x4 mode)
  SlimSAS_1 port supports PCIe 4.0 x4 mode NVMe device
  SlimSAS_2 port supports PCIe 4.0 x4 mode NVMe device
  8 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.
  *** M.2_1 and M.2_2 slots will be disabled once an Intel Xeon W-2400 Series Processor is installed.

(W) x 220mm (H) x 485mm (D), 46.95 liters
Incl. rear fan cage: 17.3" (W), 8.66" (H), 20.87" (D)
Excl. rear fan cage: 17.3" (W), 8.66" (H), 19.1" (D)

- Chassis Warranty: 1 Year

* 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

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