

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 Socket LGA4677 for Xeon W-3400 Series 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:** 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:** 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:** 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 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: ASPEED AST2600 BMC
- Video on IO: VGA
- VGA Port Out: 1

LAN

- LAN Ports: 2
- LAN Type: 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

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

- 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
 - 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: 0°C to 40°C (32°F to 104°F)
- High Humidity: 85%
- Low Humidity: 10%

retainer: 157mm
 Width w/o expansion
 card retainer: 198mm
 Limitation of Height w/
 CPU cooler expansion
 card
 retainer:
 181mm
 Height w/o
 expansion
 card
 retainer:
 192mm
 Limita 160m
 tion m~19
 of 0mm
 PSU (Rem
 oval
 of
 3.5"
 drive
 cage
 elimin
 ates
 PSU
 depth
 limita
 tion)
 Dime
 nsion
 Incl.
 rear
 fan
 cage:
 440m
 m
 (W) x
 220m
 m (H)
 x
 530m
 m
 (D),
 51.3
 liters
 Excl.
 rear
 fan
 cage:
 440m

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
- 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 Chipset**

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

m
(W) x
220m
m (H)
x
485m
m
(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

Intel Xeon W-2400 Series Processor is installed.

* 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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