

Tower Server Desktop

Configuration Number: BASE CONFIG
SL-DK-W790SAGE-FW



M.2_1 and M.2_2 slots will be disabled once an Intel Xeon W-2400 Series Processor is installed.

Type:

- Tower Server
- Dimension: 547mm x 240mm x 475mm

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:** 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:** 0°C to 40°C (32°F to 104°F)



(Full size images available on web site)

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: 1x 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

Chassis Specifications:

General

- Form Factor: Full Tower
- Front Facing I/O
- Front Changeable Air Filter
- Color: Black
- Material: Metal/Steel
- Material Thickness: 1mm
- Motherboard Compatibility: E-ATX

Expansion

- Full Height Slots: 7
- Max Card Depth: Storage layout: 315 mm - Open layout: 491 mm (467 mm w/ front fan)"
- External 5.25" Bays: 1
- Internal 3.5" Bays: 6
- Internal 2.5" Bays: 2

Front Ports

- USB 3.2 Ports (Front): 5
- Front Audio Ports: 1

Cooling System

- Maximum Fan Count: 9
- Included Fans: 4

Physical

- Depth: 547mm
- Depth (Inches): 21.5
- Width: 240mm
- Height: 475mm
- Shipping Box - Depth: 558mm
- Shipping Box - Width: 363mm
- Shipping Box - Height: 641mm
- Shipping Weight: 36lbs

- RAID
- RAID Type: Hardware RAID
- 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%

Other Features

- Chassis Warranty: 1 Year

- Low Humidity: 10%

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 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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