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: 23.78" x 9.45" x 22.28"

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 Front, 2 Rear, 2 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

Chassis Specifications:

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

Expansion
- Full Height Slots: 9
- Max Card Depth: 530 mm"
- External 5.25" Bays: 2
- Internal 3.5" Bays: 6
- Internal 2.5" Bays: 2

Front Ports
- USB 2.0 Ports (Front): 2
- USB 3.2 Ports (Front): 2
- USB Type-C (Front): 1
- Front Audio Ports: 1

Cooling System
- Maximum Fan Count: 11
- Included Fans: 3

Physical
- Depth: 23.78"
- Width: 9.45"
- Height: 22.28"
- Shipping Box - Depth: 25.43"
- Shipping Box - Width: 14.06"
- Shipping Box - Height: 27.87"
- Shipping Weight: 41.54lbs

Other Features

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

- Features:
  CPU cooler max height

  7.28 in

  GPU max length

  20.87 in

  Top radiator compatibility

  120, 140, 240, 280, 360, 420, 480

  Bottom radiator compatibility

  120, 140, 240, 280

  Front radiator compatibility

  120, 140, 240, 280, 360, 420, 480
- Chassis Warranty: 1 Year

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 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.

* 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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