

4U Rack Mount Server Rackmount

Configuration Number: BASE CONFIG
SL-4U-W890SAGE-SK



(Not all images available on web site)

Type:

- 4U Rack Mount Server
- Depth: 19.85", Max Card Depth: Maximum card length with 2x 25mm thick front fans: 398mm"

Motherboard:

- Featuring Intel W890 Chipset and Intel Socket LGA4710-2 for Xeon 600 Processors for Workstation processor
- **Full Height Slots:**
5 - PCIe x16
- **LAN:** 2x Ports (2.5GbE + 10GbE)
- **RAID:** 0,1,5,10 and NVMe 0,1,5,10 RAID Intel VROC Xeon 6
- **Video:** N/A
- **Audio:** Realtek ALC1220P Surround Sound High Definition Audio CODEC
- **Ports:**
6x USB 2.0 Ports (2 Rear, 4 Internal Headers)
2x USB 3.2 Gen 1 Ports (2 Front)
6x USB 3.2 Gen 2 Ports (6 Rear)
1x USB 3.2 Gen 2 Type-C Port (1 Internal Headers)
2x USB 4 Type-C Ports (2 Rear)
1x COM Port (RS232 Internal Headers)
See specifications for more ports
- **Operating Temperature:** 10°C to 35°C (50°F to 95°F)

Configuration summary:

- **Processor:** Intel Xeon 6 634 Processor, 2.7GHz (up to 4.6GHz), 12 Cores, 48MB L3 Cache, TDP 150W
- **Memory:** 2 x 16GB DDR5 5600MHz ECC

- Registered RAM
- **Hard Drive:** 1TB PCIe 4.0 NVMe SSD M.2
Read/write speeds up to 7100MB/s / 6700MB/s
- **Add-In Graphic Card:** Removes Default Graphics card - System will ship without a graphics output. A graphics adapter must be added for video output.
- **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 Socket LGA4710-2 for Xeon 600 Processors for Workstation

Chipset

- Chipset: Intel W890 Chipset

Memory

- Memory Type: DDR5 4800MHz ECCR
- Memory Type: ECC Registered
- DIMMS: 8

On Board Audio

- Audio Type: Realtek ALC1220P Surround Sound High Definition Audio CODEC

On Board Video

- Video Chipset: None
- Video on IO: N/A

LAN

- LAN Ports: 2
- LAN Type and IPMI: 2.5GbE + 10GbE
- LAN Chipset: Intel 2.5Gb Ethernet
- Second LAN Chipset: Realtek 10Gb Ethernet
- Wireless LAN: No Integrated WLAN

Chassis Specifications:

General

- Form Factor: 4U Rackmount
- Color: Black
- Material: Metal/Steel
- Material Thickness: 1mm
- Motherboard Compatibility: SSI EEB
- Slide Rails: Optional

Expansion

- Full Height Slots: 8
- Max Card Depth: Maximum card length with 2x 25mm thick front fans: 398mm"
- External 5.25" Bays: 3
- Internal 2.5" Bays: 2

Front Ports

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

Cooling System

- Maximum Fan Count: 4
- Included Fans: 2

Physical

- Depth: 19.85"
- Depth (Inches): 19.85
- Width: 17"
- Height: 7"
- Shipping Box - Depth: 25"
- Shipping Box - Width: 22"

Drive Interface

- SATA III Ports (6GB): 4
- RAID
- RAID Type: Software 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: 4
- M.2 Slot #1 Specs
 - 2242 - 22 mm x 42 mm.
 - 2260 - 22 mm x 60 mm.
 - 2280 - 22 mm x 80 mm.
- M.2 Slot #2 Specs
 - 2242 - 22 mm x 42 mm.
 - 2260 - 22 mm x 60 mm.
 - 2280 - 22 mm x 80 mm.
- M.2 Slot #3 Specs
 - 2242 - 22 mm x 42 mm.
 - 2260 - 22 mm x 60 mm.
 - 2280 - 22 mm x 80 mm.
- M.2 Slot #4 Specs
 - 2242 - 22 mm x 42 mm.
 - 2260 - 22 mm x 60 mm.
 - 2280 - 22 mm x 80 mm.
- M.2 E-Key Slot
- PCIe Signal
- 2230 - 22 mm x 30 mm.

Rear IO

- USB 2.0 Ports (on IO): 2
- USB 3.2 Gen 2 Type A Ports (on IO): 6
- USB 4.0 Type C Ports (on I/O): 2
- 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

Environmental

- Operating Temperature: 10°C to 35°C (50°F to 95°F)

Operating System Support

- Windows 11 Pro (64 Bit)

- Shipping Box - Height: 12"
- Shipping Weight: 22lbs

Other Features

- Features:
 - Eight (8) Full height PCIe card slot cutouts
 - 8x full height PCIe card slots
 - Maximum card height: 158mm (including power connectors)
 - Maximum card length with 2x 25mm thick front fans: 398mm
 - Maximum card length with Asetek 240mm AIO and 2x 25mm thick front fans: 371mm
 - Maximum card length with Asetek 240mm AIO and 4x 25mm thick front fans: 347mm
 - Total Internal Depth: 424mm
 - Thickness of radiator + thickness of case fans + GPU length must equal less than 424mm total.

- Chassis Warranty: 1 Year

Power

- Remote Server Management:

- Windows 11 Pro for WS (64 Bit)
- Windows 11 IoT 2024 LTSC High End
- RED HAT Enterprise LINUX SERVER BASIC
- RED HAT Enterprise LINUX WORKSTATION STANDARD
- RED HAT Enterprise LINUX SERVER STANDARD
- LINUX Ubuntu Desktop
- Ubuntu Server Edition

Compliance of Component

- UL
- CE
- RoHS
- FCC

Other Features

- Features:

Expansion Slots

Intel Xeon 690/670/650/630 Series Processors*

4 x PCIe 5.0 x16 slots (supports x16 mode)

Intel W890 Chipset

1 x PCIe 4.0 x16 slot (supports x4 mode)

Storage

Total supports 4 x M.2 slots, 2 x SlimSAS ports and 4 x SATA 6Gb/s ports

Intel Xeon 690/670/650/630 Series Processors*

M.2_1 slot (Key M), type 2242/2260/2280 (supports PCIe 5.0 x4 mode)

M.2_2 slot (Key M), type 2242/2260/2280 (supports PCIe 5.0 x4 mode)

M.2_3 slot (Key M), type 2242/2260/2280 (supports PCIe 5.0 x4 mode)

M.2_4 slot (Key M), type 2242/2260/2280 (supports PCIe 5.0 x4 mode)

Intel W890 Chipset

SlimSAS_1 connector supports PCIe 4.0 x4 mode

SlimSAS_2 connector supports PCIe 4.0 x4 mode or up to 4 SATA devices via an SFF-8654 adapter cable. The cable is purchased separately.

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.

Graphics

2 x USB 40Gbps (USB4) ports support USB Type-C

display outputs*

* Supports max. 8K@60Hz as specified in
DisplayPort 1.4.

** Output at USB4 Type-C 40G USB 1 or USB4
Type-C 40G USB 2 ports, each requires a
DisplayPort IN to DisplayPort adapter cable.

- Motherboard Warranty: 1 Year



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