

Storage SuperServer SSG-122B-NE316R

1U front-loading all-flash storage server with 16 E3.S NVMe drives and PCIe 5.0



Key Applications

Software-defined Storage, In-Memory Computing, Scale Out All-Flash NVMe Storage, Data Intensive HPC, Private & Hybrid Cloud, NVMe Over Fabrics Solution, Enhanced Graphics&AI, Generative AI,

Key Features

- Dual Socket E2 (LGA-4710) Intel® Xeon® 6 6700 series processors with P-cores
Support CPU TDP up to 270W with air cooling;
- Supports up to 4 TB of ECC DDR5 RDIMM/RDIMM 3DS/MRDIMM memory with speeds of up to 6400 MT/s (1DPC) or up to 5200 MT/s (2DPC) in 32 DIMM slots;
- Flexible networking with up to 2 OCP 3.0 compatible AIOM slots;
- Up to 2 PCIe 5.0 x16 FHHL + 2 PCIe 5.0 x16 AIOM slots;
- Up to 16 front hot-swap E3.S 1T NVMe drive bays;



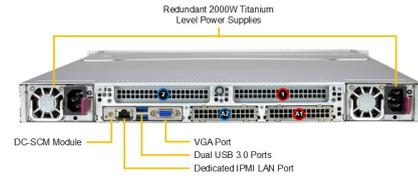
Form Factor	<p>1U Rackmount</p> <p>Enclosure: 438.4 x 43.6 x 772.15mm (17.2" x 1.7" x 30.4")</p> <p>Package: 672 x 224 x 1100mm (26.46" x 8.82" x 43.31")</p>
Processor	<p>Dual Socket E2 (LGA-4710)</p> <p>Intel® Xeon® 6700/6500 series processors with P-cores or 6700 series processors with E-cores</p> <p>P-cores: Up to 128C/256T; Up to 108MB Cache per CPU</p> <p>E-cores: Up to 144C/144T; Up to 108MB Cache per CPU</p>
System Memory	<p>Slot Count: 32 DIMM slots/2 Channels</p> <p>Max Memory (1DPC): Up to 4TB 6400MT/s ECC DDR5 RDIMM/LRDIMM</p> <p>Max Memory (1DPC): Up to 4TB 8000MT/s ECC DDR5 MRDIMM</p> <p>Max Memory (2DPC): Up to 4TB 5200MT/s ECC DDR5 RDIMM/LRDIMM</p>
Drive Bays Configuration	<p>Default: Total 16 bays</p> <ul style="list-style-type: none"> • 16 front hot-swap E3.S 1T NVMe drive bays <p>M.2: 2 M.2 NVMe slots (M-key 2280/22110)</p>
Expansion Slots	<p>Default</p> <ul style="list-style-type: none"> • 2 PCIe 5.0 x16 FHHL slots • 2 PCIe 5.0 x16 AIOM slots (OCP 3.0 compatible)
On-Board Devices	<p>NVMe: NVMe; RAID 0/1/5/10 support(VROC HW key required)</p> <p>Chipset: System on Chip</p> <p>Network Connectivity: Via AIOM</p>
Input / Output	<p>LAN: 1 RJ45 1 GbE Dedicated BMC LAN port</p> <p>USB: 2 USB 3.0 ports(rear)</p> <p>Video: 1 VGA port</p>

(Front View – System)



Drive Bay	Description
0 - 15	16 E3.S (7.5mm) Drive Bays
16 - 17	2 Hot-swap M.2 NVMe Drive Bays (2280, optional)

(Rear View – System)



Slot	Description
1	PCIe 5.0 x16 FHFL
2	PCIe 5.0 x16 AIOM

System Cooling	Fans: 8x 4cm heavy duty fans with optimal fan speed control Air Shroud: 1 Air Shroud
Power Supply	2x 2000W Redundant (1 + 1) Titanium Level (96%) power supplies
System BIOS	BIOS Type: AMI 64MB SPI Flash
Management	SuperCloud Composer®; Supermicro Server Manager (SSM); Super Diagnostics Offline (SDO); Supermicro Thin-Agent Service (TAS); SuperServer Automation Assistant (SAA) New!
PC Health Monitoring	CPU: Monitors for CPU Cores, Chipset Voltages, Memory 7 Phase-switching voltage regulator FAN: Fans with tachometer monitoring Status monitor for speed control Pulse Width Modulated (PWM) fan connectors Temperature: Monitoring for CPU and chassis environment Thermal Control for fan connectors
Dimensions and Weight	Weight: Gross Weight: 66.8 lbs (30.3 kg) Net Weight: 43.6 lbs (19.8 kg) Available Color: Silver
Operating Environment	RoHS Compliant Operating Temperature: 10°C to 35°C (50°F to 95°F) Non-operating Temperature: -40°C to 60°C (-40°F to 140°F) Operating Relative Humidity: 8% to 90% (Non-condensing) Non-operating Relative Humidity: 8% to 95% (Non-condensing)
Motherboard	Super X14DBHM
Chassis	CSE-146E32-R2K09P