Storage SuperServer SSG-122B-NE316R

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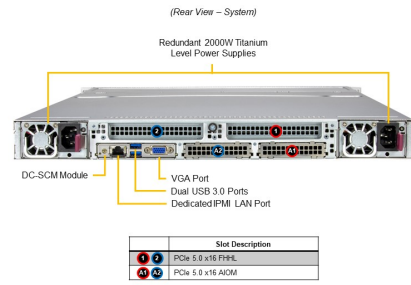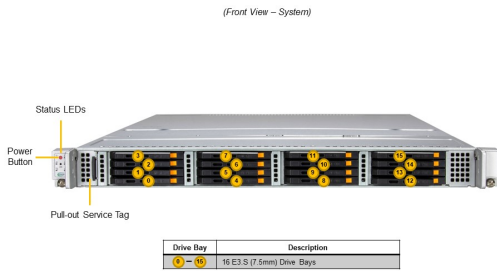
Key Applications

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 E-cores
  Support CPU TDP up to 300W with air cooling;
- Up to 32 DIMMs supporting up to 8TB DDR5-6400 in 2DPC;
- 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;
- Up to 2 single-width GPUs (Max TDP 300W);

Form Factor	1U Rackmount Enclosure: 438.4 x 43.6 x 772.15mm (17.2" x 1.7" x 30.4") Package: 672 x 224 x 1100mm (26.46" x 8.82" x 43.31")
Processor	Dual Socket E2 (LGA-4710) Intel® Xeon® 6 6700 series processors with E-cores Up to 144C/144T; Up to 108MB Cache per CPU
GPU	Max GPU Count: Up to 2 single-width GPU(s) CPU-GPU Interconnect: PCIe 5.0 x16 CPU-to-GPU Interconnect GPU-GPU Interconnect: PCIe
System Memory	Slot Count: 32 DIMM slots Max Memory (2DPC): Up to 8TB 6400MT/s ECC DDR5 RDIMM/LRDIMM
Drive Bays Configuration	Default: Total 16 bay(s) • 16 front hot-swap E3.S 1T NVMe drive bay(s) M.2: 2 M.2 NVMe slot(s) (M-key 2280/22110)

Expansion Slots	Default
	  • 2 PCIe 5.0 x16 FHHL slot(s)
	  • 2 PCIe 5.0 x16 AIOM slot(s) (OCP 3.0 compatible)

On-Board Devices	NVMe: NVMe; RAID 0/1/5/10 support(VROC HW key required) Chipset: System on Chip Network Connectivity: Via AIOM
Input / Output	LAN: 1 RJ45 1 GbE Dedicated IPMI LAN port(s) USB: 2 USB 3.0 port(s) (rear) Video: 1 VGA port(s)

(Front View – System)

(Rear View – System)

Status LEDs

Power Button

Pull-out Service Tag

Redundant 2000W Titanium Level Power Supplies

DC-SCM Module

VGA Port
Dual USB 3.0 Ports
Dedicated IPMI LAN Port

Drive Bay	Description
0 – 16	16 E3.S (7.5mm) Drive Bays

Slot Description	
1 2	PCIe 5.0 x16 FHHL
A1 A2	PCIe 5.0 x16 AIOM

CPU1 ■ CPU2 ■

System Cooling	Fans: 8x 4cm heavy duty fans with optimal fan speed control Air Shroud: 1 Air Shroud(s)
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 ~ 35°C (50°F ~ 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**