

# Storage SuperServer SSG-222B-NE3X24R

2U front-loading all-flash storage server with 24 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, AI/Deep Learning Training and Inference,

## Key Features

- Dual Socket E2 (LGA-4710) Intel® Xeon® 6 6700 series processors  
Support CPU TDP up to 350W 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 + 1 PCIe 5.0 x8 FHHL + 2 PCIe 5.0 x16 AIOM slots;
- Up to 32 front hot-swap E3.S 1T NVMe drive bays  
Up to 8 CXL 2.0 x8 Type 3 devices;
- Up to 2 double-width GPUs (Max TDP 300W);



<b>Form Factor</b>	2U Rackmount Enclosure: 438 x 88 x 780mm (17.25" x 3.47" x 30.7") Package: 597 x 239 x 1097mm (23.5" x 9.4" x 43.2")
<b>Processor</b>	Dual Socket E2 (LGA-4710) Intel® Xeon® 6700/6500 series processors with P-cores or 6700 series processors with E-cores P-cores: Up to 86C/172T; Up to 336MB Cache per CPU E-cores: Up to 144C/144T; Up to 108MB Cache per CPU
<b>GPU</b>	Max GPU Count: Up to 2 double-width GPUs Supported GPU: NVIDIA PCIe: L40
<b>System Memory</b>	Slot Count: 32 DIMM slots/2 Channels Max Memory (1DPC): Up to 4TB 6400MT/s ECC DDR5 RDIMM/LRDIMM Max Memory (2DPC): Up to 8TB 5200MT/s ECC DDR5 RDIMM/LRDIMM
<b>Drive Bays Configuration</b>	Default: Total 24 bays <ul style="list-style-type: none"> <li>• 24 front hot-swap E3.S 1T PCIe 5.0 x4 NVMe* drive bays</li> </ul> Option A: Total 24 bays <ul style="list-style-type: none"> <li>• 24 front hot-swap E3.S 1T PCIe 5.0 x4 NVMe* drive bays</li> </ul> Option B: Total 32 bays <ul style="list-style-type: none"> <li>• 32 front hot-swap E3.S 1T PCIe 5.0 x4 NVMe drive bays</li> </ul> Option C: Total 16 bays <ul style="list-style-type: none"> <li>• 8 front hot-swap E3.S 1T PCIe 5.0 x4 NVMe* drive bays</li> <li>• 8 front fixed E3.S 2T PCIe 5.0 x8 CXL Type 3* drive bays</li> </ul> (*CXL Type 3/NVMe support may require additional storage controller and/or cables, please see the optional parts list for details) M.2: 2 M.2 NVMe slots (M-key 2280/22110)
<b>Expansion Slots</b>	PCI-Express (PCIe) Configuration: Default <ul style="list-style-type: none"> <li>• 2 PCIe 5.0 x16 FHFL double-width slots</li> <li>• 2 PCIe 5.0 x16 AIOM slots (OCP 3.0 compatible)</li> <li>• 1 PCIe 5.0 x8 FHFL double-width slot</li> </ul> Option A <ul style="list-style-type: none"> <li>• 2 PCIe 5.0 x16 FHFL double-width slots</li> <li>• 2 PCIe 5.0 x16 AIOM slots (OCP 3.0 compatible)</li> <li>• 1 PCIe 5.0 x8 FHFL double-width slot</li> </ul> Option B <ul style="list-style-type: none"> <li>• 2 PCIe 5.0 x16 AIOM slots (OCP 3.0 compatible)</li> <li>• 1 PCIe 5.0 x8 FHFL double-width slot</li> </ul> Option C <ul style="list-style-type: none"> <li>• 2 PCIe 5.0 x16 FHFL double-width slots</li> <li>• 2 PCIe 5.0 x16 AIOM slots (OCP 3.0 compatible)</li> <li>• 1 PCIe 5.0 x8 FHFL double-width slot</li> </ul> CXL Support: Up to 8 CXL 2.0 x8 Type 3 devices

On-Board Devices

Chipset: System on Chip  
Network Connectivity: Via AIOM

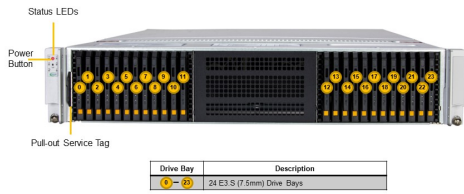
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Input / Output

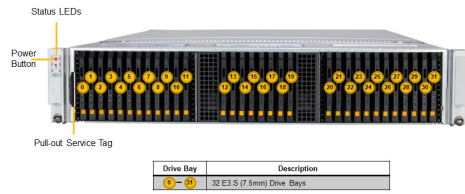
LAN: 1 RJ45 1 GbE Dedicated BMC LAN port  
USB: 2 USB 3.0 ports(rear)  
Video: 1 VGA port

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(Front View – System)



(Front View – System)  
Option A



System Cooling	Fans: 4x 8cm 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: 83.78 lbs (38 kg) Net Weight: 61.73 lbs (28 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: 5% to 95% (Non-Condensing)
Motherboard	<a href="#"><u>Super X14DBHM</u></a>
Chassis	<b>CSE-246E3-R2K09P</b>