

# 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

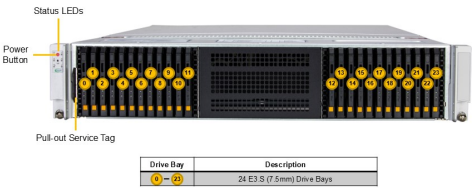
- Dual Socket E2 (LGA-4710) Intel® Xeon® 6 6700 series processors  
Support CPU TDP up to 350W with air cooling;
- Up to 32 DIMMs supporting up to 8TB DDR5-6400 in 2DPC;
- Flexible networking with up to 2 OCP 3.0 compatible AIOM slots;
- Up to 2 PCIe 5.0 x16 FHHL + 1 PCIe 5.0 x8 FHHL + 2 PCIe 5.0 x16 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);



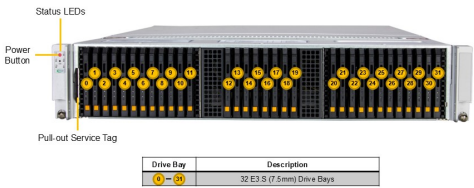
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|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Form Factor              | 2U Rackmount<br>Enclosure: 438 x 88 x 780mm (17.25" x 3.47" x 30.7")<br>Package: 597 x 239 x 1097mm (23.5" x 9.4" x 43.2")                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Processor                | Dual Socket E2 (LGA-4710)<br>Intel® Xeon® 6700/6500 series processors with P-cores or 6700 series processors with E-cores<br>P-cores: Up to 86C/172T; Up to 336MB Cache per CPU<br>E-cores: Up to 144C/144T; Up to 108MB Cache per CPU                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| GPU                      | Max GPU Count: Up to 2 double-width GPUs<br>Supported GPU: NVIDIA PCIe: L40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| System Memory            | Slot Count: 32 DIMM slots/2 Channels<br>Max Memory (1DPC): Up to 4TB 6400MT/s ECC DDR5 RDIMM/LRDIMM<br>Max Memory (2DPC): Up to 8TB 5200MT/s ECC DDR5 RDIMM/LRDIMM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Drive Bays Configuration | 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)<br>M.2: 2 M.2 NVMe slots (M-key 2280/22110)                                       |
| Expansion Slots          | 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 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 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 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 slot</li> </ul> CXL Support: Up to 8 CXL 2.0 x8 Type 3 devices |

|                  |                                                                                             |
|------------------|---------------------------------------------------------------------------------------------|
| On-Board Devices | Chipset: System on Chip<br>Network Connectivity: Via AIOM                                   |
| Input / Output   | LAN: 1 RJ45 1 GbE Dedicated BMC LAN port<br>USB: 2 USB 3.0 ports(rear)<br>Video: 1 VGA port |

(Front View – System)  
Configuration 1



(Front View – System)  
Configuration 2



|                       |                                                                                                                                                                                                                                                                                                                                                        |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| System Cooling        | <p>Fans: 4x 8cm heavy duty fans with optimal fan speed control</p> <p>Air Shroud: 1 Air Shroud</p>                                                                                                                                                                                                                                                     |
| 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  | <p>CPU: Monitors for CPU Cores, Chipset Voltages, Memory</p> <p>7 Phase-switching voltage regulator</p> <p>FAN: Fans with tachometer monitoring</p> <p>Status monitor for speed control</p> <p>Pulse Width Modulated (PWM) fan connectors</p> <p>Temperature: Monitoring for CPU and chassis environment</p> <p>Thermal Control for fan connectors</p> |
| Dimensions and Weight | <p>Weight: Gross Weight: 83.78 lbs (38 kg)</p> <p>Net Weight: 61.73 lbs (28 kg)</p> <p>Available Color: Silver</p>                                                                                                                                                                                                                                     |
| Operating Environment | <p>RoHS Compliant</p> <p>Operating Temperature: 10°C to 35°C (50°F to 95°F)</p> <p>Non-operating Temperature: -40°C to 60°C (-40°F to 140°F)</p> <p>Operating Relative Humidity: 8% to 90% (Non-Condensing)</p> <p>Non-operating Relative Humidity: 5% to 95% (Non-Condensing)</p>                                                                     |
| Motherboard           | <a href="#">Super X14DBHM</a>                                                                                                                                                                                                                                                                                                                          |
| Chassis               | CSE-246E3-R2K09P                                                                                                                                                                                                                                                                                                                                       |