

Storage SuperServer SSG-222B-NE3X24R (Complete System Only) Coming Soon

Datasheet Share

2U front-loading all-flash storage server with 24 E3.S NVMe drives and PCIe 5.0



Key Applications

- Software-defined Storage
- Scale Out All-Flash NVMe Storage
- Private & Hybrid Cloud
- AI/Deep Learning Training and Inference
- In-Memory Computing
- Data Intensive HPC
- NVMe Over Fabrics Solution

Key Features

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

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Specifications Resources & Downloads Parts List

Product SKUs

SuperServer **SSG-222B-NE3X24R**

Motherboard

Super X14DBHM

Processor

CPU	Dual Socket E2 (LGA-4710) Intel® Xeon® 6700 series processors with E-cores
Core Count	Up to 144C/144T; Up to 108MB Cache per CPU
Note	Supports up to 350W TDP CPUs (Air Cooled)

GPU

Max GPU Count	Up to 2 double-width GPUs
CPU-GPU Interconnect	PCIe 5.0 x16 CPU-to-GPU Interconnect
GPU-GPU Interconnect	PCIe

System Memory

Memory	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 View Memory Options >
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On-Board Devices

NVMe	NVMe; RAID 0/1/5/10 support(VROC HW key required) View NVMe Options >
Chipset	System on Chip
Network Connectivity	Via AIOM View AIOM Options > View AOC Options >

Input / Output

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

System BIOS

BIOS Type	AMI 64MB SPI Flash
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Management

Software	SuperCloud Composer Supermicro Server Manager (SSM) Super Diagnostics Offline (SDO) Supermicro Thin-Agent Service (TAS) SuperServer Automation Assistant (SAA) New!
Power configurations	Power-on mode for AC power recovery ACPI Power Management

Security

Hardware	Trusted Platform Module (TPM) 2.0 Silicon Root of Trust (RoT) – NIST 800-193 Compliant
Features	Cryptographically Signed Firmware Secure Boot Secure Firmware Updates Automatic Firmware Recovery Supply Chain Security: Remote Attestation Runtime BMC Protections System Lockdown

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

Chassis

Form Factor	2U Rackmount
Model	CSE-246E3-R2K09P

Dimensions and Weight

Height	3.47" (88 mm)
Width	17.25" (438 mm)
Depth	30.7" (780 mm)
Package	9.4" (H) x 23.5" (W) x 43.2" (D)
Weight	Gross Weight: 83.78 lbs (38 kg) Net Weight: 61.73 lbs (28 kg)
Available Color	Silver

Front Panel

LED	HDD activity LAN1 activity LAN2 activity Power Fail Power status System information (overheat/UID)
Buttons	UID button

Expansion Slots

PCI-Express (PCIe) Configuration	Default 2 PCIe 5.0 x16 FHFL double-width slots 2 PCIe 5.0 x16 AIOM slots (OCP 3.0 compatible) 1 PCIe 5.0 x8 FHFL double-width slot Option A 1 PCIe 5.0 x8 FHFL double-width slot 2 PCIe 5.0 x16 AIOM slots (OCP 3.0 compatible) View AOC Options >
CXL Support	Up to 8 CXL 2.0 x8 Type 3 devices

Drive Bays / Storage

Drive Bays Configuration	Default: Total 24 bays 24 front hot-swap E3.S 1T PCIe 5.0 x4 NVMe drive bays Option A: Total 32 bays 32 front hot-swap E3.S 1T PCIe 5.0 x4 NVMe drive bays Option B: Total 16 bays 8 front hot-swap E3.S 1T PCIe 5.0 x4 NVMe drive bays 8 front fixed E3.S 2T PCIe 5.0 x8 CXL Type 3 drive bays View NVMe Options >
M.2	2 M.2 NVMe slots (M-key 2280/22110) View M.2 Options >

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
Dimension (WxHxL)	73.5 x 40 x 185 mm
Input	1000W: 100-127Vac / 50-60Hz 1800W: 200-220Vac / 50-60Hz 1980W: 220-230Vac / 50-60Hz 2000W: 220-240Vac / 50-60Hz (for UL only) 2000W: 230-240Vac / 50-60Hz 2000W: 230-240Vdc / 50-60Hz (for CQC only)
+12V	Max: 83A / Min: 0A (100Vac-127Vac) Max: 150A / Min: 0A (200Vac-220Vac) Max: 165A / Min: 0A (220Vac-230Vac) Max: 166A / Min: 0A (230Vac-240Vac)
12V SB	Max: 3.5A / Min: 0A
Output Type	Backplanes (gold finger)

Operating Environment

ROHS	RoHS Compliant
Environmental Spec.	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: 5% to 95% (Non-Condensing)

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