

Storage SuperServer SSG-122B-NE316R (Complete System Only) Coming Soon

Datasheet Share

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



Key Applications

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

Key Features

1. Dual Socket E2 (LGA-4710) Intel® Xeon® 6 6700 series processors with E-cores
Support CPU TDP up to 300W 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 + 2 PCIe 5.0 x16 AIOM slots

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Specifications Resources & Downloads Parts List

Product SKUs

SuperServer **SSG-122B-NE316R**

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 300W TDP CPUs (Air Cooled)

GPU

Max GPU Count Up to 2 single-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 >](#)

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

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 1U Rackmount

Model **CSE-146E32-R2K09P**

Dimensions and Weight

Height 1.7" (43.6 mm)

Width 17.2" (438.4 mm)

Depth 30.4" (772.15 mm)

Package 8.82" (H) x 26.46" (W) x 43.31" (D)

Weight Gross Weight: 66.8 lbs (30.3 kg)
Net Weight: 43.6 lbs (19.8 kg)

Available Color Silver

Front Panel

LED HDD activity
LAN1 activity
LAN2 activity
Power Fail LED
Power status
System information

Buttons Power On/Off
UID button

Expansion Slots

PCI-Express (PCIe) Configuration Default
2 PCIe 5.0 x16 FHHL slots
2 PCIe 5.0 x16 AIOM slots (OCP 3.0 compatible)
[View AOC Options >](#)

Drive Bays / Storage

Drive Bays Configuration Default: Total 16 bays
16 front hot-swap E3.S 1T NVMe drive bays
[View NVMe Options >](#)

M.2 2 M.2 NVMe slots (M-key 2280/22110)
[View M.2 Options >](#)

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

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: 8% to 95% (Non-condensing)

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