

Storage SuperServer **SSG-121E-NE3X12R** (Complete System Only)

Datasheet Share

1U front-loading all-flash storage server with 8 E3.S NVMe drives and 4 E3.S 2T CXL bays

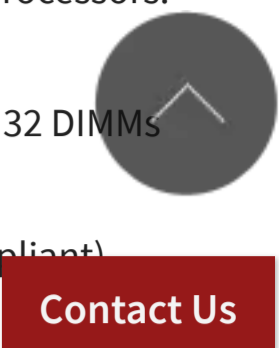


Key Applications

- Software-defined Storage
- Data Intensive HPC
- NVMe Over Fabrics Solution
- In-Memory Computing
- Private & Hybrid Cloud

Key Features

1. Dual Socket E (LGA-4677) 5th Generation Intel® Xeon® Scalable processors. Up to 270W TDP.
2. Supports 32 DIMMs with 2DPC, up to 8TB memory capacity with 32 DIMMs of 256GB 3DS RDIMM DDR5-4800 ECC memory
3. Two PCIe 5.0 x16 slots & two AIOM connectors (OCP 3.0 SFF compliant)
4. 8x hot-swap E3.S (1T) NVMe drive bays, 4x E3.S(2T) CXL bays
5. Redundant Titanium 1600W Power Supplies



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Specifications Resources & Downloads Parts List

Product SKUs

SuperServer **SSG-121E-NE3X12R**

Motherboard

Super X13DSF-A

Processor

CPU Dual processor(s)

Note Supports up to 270W TDP CPUs (Air Cooled)

System Memory

Memory Slot Count: 32 DIMM slots
[View Memory Options >](#)

On-Board Devices

Chipset Intel® C741

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)
2 USB 3.0 ports(front)

Video 1 VGA port

System BIOS

BIOS Type AMI 32MB SPI Flash EEPROM

Management

Software [SuperCloud Composer](#)
[Supermicro Server Manager \(SSM\)](#)
[Supermicro Update Manager \(SUM\)](#)
[Supermicro SuperDoctor® 5 \(SD5\)](#)
[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-126E32-R1K62P**

Dimensions and Weight

Height 1.7" (43.6 mm)

Width 17.2" (438.4 mm)

Depth 30.4" (773.25 mm)

Package 7.87" (H) x 23.81" (W) x 40.55" (D)

Weight Gross Weight: 68.74 lbs (31.2 kg)
Net Weight: 48 lbs (21.8 kg)

Available Color Silver

Front Panel

LED Network activity
Power status
SSD activity
System information (overheat/UID)

Buttons Power On/Off

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 >](#)

CXL Support Up to 4 CXL 2.0 x8 Type 3 devices

Drive Bays / Storage

Drive Bays Configuration Default: Total 12 bays
8 front hot-swap E3.S 1T NVMe drive bays
4 front fixed E3.S 2T CXL Type 3 drive bays
[View NVMe Options >](#)

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

System Cooling

Fans 8 Heavy Duty 4cm Fan(s)

Power Supply

2x 1600W Redundant (1 + 1) Titanium Level (96%) power supplies

Dimension (WxHxL) 73.5 x 40 x 203 mm

Input 1000W: 100-127Vac
1000W: 100-127Vac / 50-60Hz
1600W: 200-240Vac
1600W: 200-240Vac / 50-60Hz

+12V Max: 83.3A / Min: 0A (100Vac-127Vac)
Max: 83A / Min: 0A (100Vac-127Vac)
Max: 133A / Min: 0A (200Vac-240Vac)

12V SB Max: 2.1A / Min: 0A

Output Type Backplanes (gold finger)

Certification **Titanium Level**
[\[Test Report \]](#)

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-operating Relative Humidity: 8% to 95% ()

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