

Storage SuperServer SSG-121E-NES24R (Complete System Only **o**)

Datasheet Share

1U front-loading all-flash storage server with 24 E1.S NVMe drives and PCIe 5.0



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/4th 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 DDR5-5600 ECC memory
3. Two PCIe 5.0 x16 slots & two AIOM connectors (OCP 3.0 SFF compliant)
4. 24x hot-swap E1.S (9.5mm or 15mm) NVMe drive bays
5. Redundant Titanium 2000W Power Supplies

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Specifications Resources & Downloads Parts List

Product SKUs

- SuperServer **SSG-121E-NES24R**
- SuperServer **SSG-121E-NES24R-G1** Gold Series version with pre-configured components

Motherboard

Super X13DSF-A

Processor

CPU	Dual Socket E (LGA-4677) 5th Gen Intel® Xeon® / 4th Gen Intel® Xeon® Scalable processors
Note	Supports 145W - 270W TDP CPUs (Air Cooled)

System Memory

Memory	Slot Count: 32 DIMM slots Max Memory (2DPC): Up to 8TB 5600MT/s ECC DDR5 RDIMM/LRDIMM View Memory Options >
Memory Voltage	1.1V

On-Board Devices

Chipset	Intel® C741
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Network Connectivity	Via AIOM View AIOM Options > View AOC Options >
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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
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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
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Model	CSE-126ES2-R2K08P
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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 FHFL slots 2 PCIe 5.0 x16 AIOM slots (OCP 3.0 compatible) View AOC Options >
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Drive Bays / Storage

Drive Bays Configuration	Default: Total 24 bays 24 front hot-swap E1.S NVMe 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)
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Power Supply

	2x 2000W Redundant Titanium Level (96%) Hot-plug power supplies
Dimension (WxHxL)	73.5 x 40 x 203 mm
Input	1000W: 100-127Vac 1000W: 100-127Vac / 50-60Hz 1800W: 200-220Vac 1800W: 200-220Vac / 50-60Hz 1980W: 220-230Vac 1980W: 220-230Vac / 50-60Hz 2000W: 220-240Vac 2000W: 220-240Vac / 50-60Hz (for UL only) 2000W: 230-240Vdc 2000W: 230-240Vac 2000W: 230-240Vac / 50-60Hz 2000W: 230-240Vdc / 50-60Hz (for China 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 Max: 3.5A
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% (I) Non-operating Relative Humidity: 5% to 95% (I)

Environmental / Recycling

Recycle	Return Server-End of Life Product
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Certain products may not be available in your region

Global SKU **English**

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