

Storage SuperServer SSG-121E-NES24R

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



[./files_SYS/images/System/SSG-121E-NES24R_main.jpg](#).

Key Applications

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

Key Features

Dual Socket E (LGA-4677) 5th/4th Generation Intel® Xeon® Scalable processors. Up to 270W TDP.

Supports 32 DIMMs with 2DPC, up to 8TB memory capacity with 32 DIMMs of 256GB 3DS RDIMM DDR5-5600 ECC memory

Two PCIe 5.0 x16 slots & two AIOM connectors (OCP 3.0 SFF compliant)

24x hot-swap E1.S (9.5mm or 15mm) NVMe drive bays

Redundant Titanium 2000W Power Supplies

Optional SAS controller is only supported for external JBOD ports, and not internally for this system's NVMe devices.

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Specifications

Product SKUs SuperServer SSG-121E-NES24R SuperServer SSG-121E-NES24R-G1 Gold Series version with pre-configured components		Chassis Form Factor1U Rackmount Model CSE-126ES2-R2K08P	
Motherboard Super X13DSF-A (https://www.supermicro.com/en/products/motherboard/XA)		Dimensions and Weight Height1.7" (43.6 mm) Width17.2" (438.4 mm) Depth30.4" (773.25 mm) Package7.87" (H) x 23.81" (W) x 40.55" (D) WeightGross Weight: 68.74 lbs (31.2 kg) Net Weight: 48 lbs (21.8 kg) Available ColorSilver	
Processor CPU	Dual Socket E (LGA-4677) 5th Gen Intel® Xeon® (https://www.supermicro.com/en/support/resources/cpu-5th-gen-intel-xeon-scalable) / 4th Gen Intel® Xeon® Scalable processors (https://www.supermicro.com/en/support/resources/cpu-4th-gen-intel-xeon-scalable)	Front Panel LEDNetwork activity Power status SSD activity System information (overheat/UID) ButtonsPower On/Off	
	NoteSupports 145W - 270W TDP CPUs (Air Cooled)		
System Memory Memory		Expansion Slots PCI-Express (PCIe) ConfigurationDefault 2 PCIe 5.0 x16 FHFL slots 2 PCIe 5.0 x16 AIOM slots (OCP 3.0 compatible) View AOC Options	
Memory Voltage1.1V		Drive Bays / Storage Drive Bays ConfigurationDefault: Total 24 bays 24 front hot-swap E1.S NVMe drive bays View NVMe Options M.22 M.2 NVMe/SATA slots (M-key 2280/22110) View M.2 Options	
On-Board Devices ChipsetIntel® C741 NetworkVia AIOM Connectivity View AIOM Options (https://www.supermicro.com/resources/aoc/aiom?show=SELECT&type=Storage) View AOC Options		https://www.supermicro.com/support/resources/m2ssd?SystemID=88445&ProductName=21E-NES24R	
Input / Output LAN1 RJ45 1 GbE Dedicated BMC LAN port USB2 USB 3.0 ports(rear) 2 USB 3.0 ports(front) Video1 VGA port		System Cooling Fans8 Heavy Duty 4cm Fan(s) Air Shroud2 Air Shrouds	
System BIOS BIOS TypeAMI 32MB SPI Flash EEPROM		Power Supply	
Management			

Software	SuperCloud Composer® (https://www.supermicro.com/en/solutions/gement-software/supercloud-composer) Supermicro Server Manager (SSM) (https://www.supermicro.com/en/solutions/gement-software/supermicro-server-manag Supermicro Update Manager (SUM) (https://www.supermicro.com/en/solutions/gement-software/supermicro-update-mana Supermicro SuperDoctor® 5 (SD5) (https://www.supermicro.com/en/solutions/gement-software/superdoctor) Super Diagnostics Offline (SDO) (https://www.supermicro.com/en/solutions/gement-software/super-diagnostics-offline) Supermicro Thin-Agent Service (TAS) (https://www.supermicro.com/en/solutions/gement-software/thin-agent-service) SuperServer Automation Assistant (SAA) Nev (https://www.supermicro.com/en/solutions/gement-software/superserver-automation-assistant)	2x 2000W
Power configurations	Power-on mode for AC power recovery ACPI Power Management	2x 2000W Redundant Titanium Level (96%) power supplies
Security		
Hardware	Trusted Platform Module (TPM) 2.0 Silicon Root of Trust (RoT) – NIST 800-193 Compliant	Dimension (WxHxL) 73.5 x 40 x 203 mm
Features	Cryptographically Signed Firmware Secure Boot Secure Firmware Updates Automatic Firmware Recovery Supply Chain Security: Remote Attestation Runtime BMC Protections System Lockdown	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)
PC Health Monitoring		
CPU	Monitors for CPU Cores, Chipset Voltages, Mer	Operating Environment ROHS RoHS Compliant Environmental Spec. Operating Temperature: 10°C to 35°C (50°F to 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: 5% to 95% ()
FAN	7 Phase-switching voltage regulator 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	Environmental / Recycling Recycle Return Server-End of Life Product (https://www.supermicro.com/en/Products)

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Parts List

Certain products may not be available in your region
