

Storage SuperServer SSG-221E-NE324R (Complete System Only 6)



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



Key Applications

• Software-defined Storage

Company

- In-Memory Computing
- Data Intensive HPC
- Private & Hybrid Cloud

NVMe Over Fabrics Solution

Key Features

- 1. Dual Socket E (LGA-4677) 5th/4th Generation Intel® Xeon® Scalable processors. Up to 350W 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 PCIe x8 slots and two AIOM connectors (OCP 3.0 SFF compliant)
- 4. 24x hot-swap E3.S (7.5mm) NVMe drive bays

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Specifications	Resources & Downloads Parts List
Durada et CIVIIa	
Product SKUs	
SuperServer SSG-221E-NE3	324R
SuperServer SSG-221E-NE3	324R-G1 Gold Series version with pre-configured components
Motherboard	
Super X13DSF-A	
Processor	
СРИ	Dual Socket E (LGA-4677) <u>5th Gen Intel® Xeon®</u> / <u>4th Gen Intel® Xeon® Scalable processors</u>
Note	Supports 145W - 350W 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
Network Connectivity	Via AIOM <u>View AIOM Options</u> > <u>View AOC Options</u> >
Management	

SuperCloud Composer

ACPI Power Management

Secure Boot

Supermicro Server Manager (SSM)

Supermicro SuperDoctor® 5 (SD5) Super Diagnostics Offline (SDO)

Supermicro Update Manager (SUM)

Supermicro Thin-Agent Service (TAS)

Power-on mode for AC power recovery

Trusted Platform Module (TPM) 2.0

Cryptographically Signed Firmware

7 Phase-switching voltage regulator

Fans with tachometer monitoring

Status monitor for speed control

Thermal Control for fan connectors

Supply Chain Security: Remote Attestation

Monitors for CPU Cores, Chipset Voltages, Memory

Pulse Width Modulated (PWM) fan connectors

Monitoring for CPU and chassis environment

Secure Firmware Updates

Runtime BMC Protections

System Lockdown

Automatic Firmware Recovery

<u>SuperServer Automation Assistant (SAA) New!</u>

Silicon Root of Trust (RoT) – NIST 800-193 Compliant

Software

Hardware

Features

CPU

FAN

Temperature

Power configurations

PC Health Monitoring

Security

Chassis	
Form Factor	2U Rackmount
Model	CSE-236E3-R2K08P
Dimensions and Weight	
Height	3.5" (89.8 mm)
Width	17.2" (438.4 mm)
Depth	30.8" (789.9 mm)
Package	10" (H) x 26.5" (W) x 43.25" (D)
Weight	Gross Weight: 77 lbs (34.93 kg) Net Weight: 55 lbs (24.95 kg)
Available Color	Silver
Expansion Slots	
PCI-Express (PCIe) Configuration	Default 4 PCIe 5.0 x8 FHHL slots 2 PCIe 5.0 x16 AIOM slots (OCP 3.0 compatible)

2 PCIe 5.0 x8 FHHL slots

1 PCIe 5.0 x16 FHHL slot 2 PCIe 5.0 x16 AIOM slots (OCP 3.0 compatible) Option B

Drive Bays

Configuration

Option A

2 PCIe 5.0 x16 FHHL slots
2 PCIe 5.0 x16 AIOM slots (OCP 3.0 compatible)
<u>View AOC Options</u> >
Default: Total 24 bays

24 front hot-swap E3.S 1T NVMe drive bays

System Cooling	

Drive Bays / Storage

4 Heavy Duty 8cm Fan(s)

Power Supply

1x 2000W Redundant Titanium Level (96%) power supply

1800W: 200-220Vac

<u>View NVMe Options</u> >

<u>View M.2 Options</u> >

M.2 2 M.2 NVMe/SATA slots (M-key 2280/22110)

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

Dimension (WxHxL) 73.5 x 40 x 203 mm

L2V	Max: 83A / Min: 0A (100Vac-127Vac)	
	2000W: 230-240Vdc / 50-60Hz (for China only)	
	2000W: 230-240Vac / 50-60Hz	
	2000W: 230-240Vac	
	2000W: 230-240Vdc	
	2000W: 220-240Vac / 50-60Hz (for UL only)	
	2000W: 220-240Vac	
	1980W: 220-230Vac / 50-60Hz	
	1980W: 220-230Vac	
	1800W: 200-220Vac / 50-60Hz	

+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)

Max: 3.5A / Min: 0A **12V SB** Max: 3.5A

Output Type	Backplanes (gold finger)
output Type	backplanes (gold imger)

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perating Environment		

	ROHS	RoH

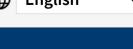
ROHS	RoHS Compliant

Environmental Spec.	Operating Temperature: 10°C ~ 35°C (50°F ~ 95°F)
	Non-operating Temperature: -40°C to 60°C (-40°F t

°C (-40°F to 140°F) Non-operating Temperature: -40°C to 60 Operating Relative Humidity: 8% to 90% (Non-Condensing) Non-operating Relative Humidity: 5% to 95% (Non-Condensing)

Certain products may not be available in your region





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