

Storage SuperServer SSG-521E-E1CR24L (Complete System Only)

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2U front/top-loading storage server with 24 hot-swap 3.5" SAS/SATA bays and PCIe 5.0



Key Applications

- Enterprise Server
- HPC, Data Center
- Corporate Database
- iSCSI SAN
- Database Processing & Storage
- Appliance Optimized Storage Building Blocks

Key Features

- Single Socket E (LGA-4677) 5th/4th Gen Intel® Xeon® Scalable processor. Up to 300W TDP.
 - 16 ECC DDR5-5600: LRDIMM/RDIMM
 - Two Dedicated PCIe 5.0 x16 AIOM slots (OCP 3.0 SFF compliant) Up to 6x PCIe 5.0 Slots (Slot #2 populated by 3808 controller by default)
- ...

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Specifications

Parts List

Product SKUs

SuperServer **SSG-521E-E1CR24L**

Motherboard

Super X13SEDW-F

Processor

CPU Single Socket E (LGA-4677)
[5th Gen Intel® Xeon® / 4th Gen Intel® Xeon® Scalable processors](#)

Core Count Up to 36C/72T; Up to 180MB Cache

Note Supports 120W - 300W TDP CPUs (Air Cooled)

System Memory

Memory Slot Count: 16 DIMM slots
Max Memory (2DPC): Up to 4TB 5600MT/s ECC DDR5 RDIMM
[View Memory Options >](#)

Memory Voltage 1.1V

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)

Video 1 VGA port

DOM 2 SuperDOM (Disk on Module) ports

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 2U Rackmount

Model **CSE-826S3TS-R1K62P1**

Dimensions and Weight

Height 3.5"

Width 17.2"

Depth 34"

Package 12" (H) x 29" (W) x 52" (D)

Weight Gross Weight: 74.5 lbs (33.79 kg)
Net Weight: 52 lbs (23.59 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
4 PCIe 5.0 x8 FHHL slots
2 PCIe 5.0 x16 FHHL slots
1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible)
Option A
2 PCIe 5.0 x8 FHHL slots
2 PCIe 5.0 x16 FHHL slots
1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible)
Option B
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 26 bays
12 front hot-swap 3.5" SAS/SATA drive bays
12 top-loading hot-swap 3.5" SAS/SATA drive bays
2 rear hot-swap 2.5" SATA drive bays
Option A: Total 28 bays
12 front hot-swap 3.5" SAS/SATA drive bays
12 top-loading hot-swap 3.5" SAS/SATA drive bays
2 rear hot-swap 2.5" SATA drive bays
2 rear hot-swap 2.5" NVMe drive bays
Option B: Total 30 bays
12 front hot-swap 3.5" SAS/SATA drive bays
12 top-loading hot-swap 3.5" SAS/SATA drive bays
4 rear hot-swap 2.5" NVMe drive bays
2 rear hot-swap 2.5" SATA drive bays
[View NVMe Options >](#)
[View Drive Options >](#)

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

System Cooling

Fans 4 Heavy Duty 8cm Fan(s)

Power Supply

2x 1600W 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
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-Condensing)
Non-operating Relative Humidity: 5% to 95% (Non-Condensing)

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