

Storage SuperServer SSG-521E-E1CR24H (Complete System Only)

Datasheet Share

2U front/top-loading storage server with 24 hot-swap 3.5" SAS/SATA bays (SAS hardware RAID) 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 3908 controller by default)
- ...

[Get Pricing](#)

[Contact Us](#)

Specifications Resources & Downloads Parts List

Product SKUs

- SuperServer **SSG-521E-E1CR24H**
- SuperServer **SSG-521E-E1CR24H-G1** Gold Series version with pre-configured components

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 Super DOM (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/SATA 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)

Certain products may not be available in your region

Global SKU **English**

About Us

- Company Profile
- Green Computing
- Investor Relations
- Careers
- Site Map
- Glossary

News

- Press Releases
- Supermicro in the News
- Product Reviews
- Events
- Webinars

Resources

- Product Briefs
- Solution Briefs
- Success Stories
- Videos
- White Papers
- Thought Leadership
- MySupermicro
- Data Center Stories

Connect & Follow

- Locations
- Contact Us
- Newsletter Sign-up

