

Storage SuperServer SSG-521E-E1CR24L

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



More details here

Key Applications

Enterprise Server, iSCSI SAN, HPC, Data Center, Database Processing & Storage, Corporate Database, 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);
- Server remote management: IPMI 2.0 / KVM over LAN / Media over LAN per node;
- 24 3.5" Hot-swap SAS3/SATA3 drives, 2x Rear SATA Slots, 4x Optional Rear NVMe Slots, 2x NVMe/SATA M.2 (form factor: 2280);
- 4x 8cm hot-swap counter-rotate redundant PWM cooling fans;
- 1600W Redundant Power Supplies Titanium Level (96%);
- HBA Controller support via Broadcom® 3808;



Form Factor	2U Rackmount Enclosure: (17.2" x 3.5" x 34") Package: (29" x 12" x 52")
Processor	Single Socket E (LGA-4677) 5th Gen Intel® Xeon® / 4th Gen Intel® Xeon® Scalable processors Up to 36C/72T; Up to 180MB Cache
System Memory	Slot Count: 16 DIMM slots Max Memory (2DPC): Up to 4TB 5600MT/s ECC DDR5 RDIMM
Drive Bays Configuration	Default: Total 26 bay(s) <ul style="list-style-type: none"> • 12 front hot-swap 3.5" SAS/SATA drive bay(s) • 12 top-loading hot-swap 3.5" SAS/SATA drive bay(s) • 2 rear hot-swap 2.5" SATA drive bay(s) Option A: Total 28 bay(s) <ul style="list-style-type: none"> • 12 front hot-swap 3.5" SAS/SATA drive bay(s) • 12 top-loading hot-swap 3.5" SAS/SATA drive bay(s) • 2 rear hot-swap 2.5" SATA drive bay(s) • 2 rear hot-swap 2.5" NVMe drive bay(s) Option B: Total 30 bay(s) <ul style="list-style-type: none"> • 12 front hot-swap 3.5" SAS/SATA drive bay(s) • 12 top-loading hot-swap 3.5" SAS/SATA drive bay(s) • 4 rear hot-swap 2.5" NVMe drive bay(s) • 2 rear hot-swap 2.5" SATA drive bay(s) M.2: 2 M.2 NVMe slot(s) (M-key 2280/22110)
Expansion Slots	Default <ul style="list-style-type: none"> • 4 PCIe 5.0 x8 FHHL slot(s) • 2 PCIe 5.0 x16 FHHL slot(s) • 1 PCIe 5.0 x16 AIOM slot(s) (OCP 3.0 compatible) Option A <ul style="list-style-type: none"> • 2 PCIe 5.0 x8 FHHL slot(s) • 2 PCIe 5.0 x16 FHHL slot(s) • 1 PCIe 5.0 x16 AIOM slot(s) (OCP 3.0 compatible) Option B <ul style="list-style-type: none"> • 2 PCIe 5.0 x16 FHHL slot(s) • 2 PCIe 5.0 x16 AIOM slot(s) (OCP 3.0 compatible)
On-Board Devices	Chipset: Intel® C741 Network Connectivity: Via AIOM

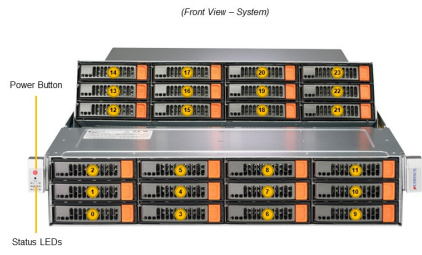
Input / Output

LAN: 1 RJ45 1 GbE Dedicated IPMI LAN port(s)

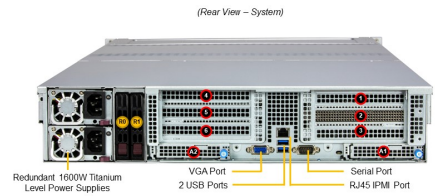
USB: 2 USB 3.0 port(s) (rear)

Video: 1 VGA port(s)

DOM: 2 Super [DOM](#) (Disk on Module) port(s)



Location	Description
0 - 11	12 Hot-swap 3.5" SAS3/SATA3 Drive Bays (Front)
02 - 03	12 Hot-swap 3.5" SAS3/SATA3 Drive Bays (Rear)



Slot Description			Location	Description
Option 1	Option 2	Option 3	00 - 01	Hot-swap 2.5" SATA3 Drive Bays
1	PCle 5.0 x8	Rear NVMe H1		
2	PCle 5.0 x8	Rear NVMe H0		
3	PCle 5.0 x16	PCle 5.0 x16		
4	PCle 5.0 x8	PCle 5.0 x8		
5	PCle 5.0 x8	PCle 5.0 x8		
6	PCle 5.0 x16	PCle 5.0 x16		
			Slot Description	
			Options 1 and 2	Options 3
			PCle 5.0 x16 (AICM)	PCle 5.0 x16 (AICM)
			Not Available*	PCle 5.0 x16 (AICM)

*Optional for 003 SAS controller
*Due to PCIe lane limitations, AICM slot A2 is only available when using 4 lane NVMe (Option 3) configuration

System Cooling	Fans: 4 Heavy Duty 8cm Fan(s)
Power Supply	2x 1600W Redundant Titanium Level (96%) Hot-plug power supplies
System BIOS	BIOS Type: AMI 32MB SPI Flash EEPROM
Management	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!
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
Dimensions and Weight	Weight: Gross Weight: 74.5 lbs (33.79 kg) Net Weight: 52 lbs (23.59 kg) Available Color: Silver
Operating Environment	RoHS Compliant 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)
Motherboard	Super X13SEDW-F
Chassis	CSE-826S3TS-R1K62P1