

# Storage SuperServer SSG-631E-E1CR16H

3U front-loading storage server with 16 hot-swap 3.5" SAS/SATA bays (SAS hardware RAID) 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

- Dual Socket E (LGA-4677) 5th/4th Gen Intel® Xeon® Scalable processors;
- Up to 4TB 3DS ECC RDIMM, DDR5-5600MT/s(1DPC) in 16 DIMM slots;
- 2x 10 GbE onboard via Broadcom BCM57416  
1x GbE Dedicated LAN for server remote management: IPMI 2.0 / KVM over LAN / Media over LAN;
- 16x 3.5"/2.5" Hot-swap SAS3/SATA3 drives, 2x Rear 2.5" SATA Slots, 2x NVMe M.2 (form factor: 2280 and 22110);
- 5x 8cm hot-swap counter-rotate redundant PWM cooling fans;
- 1200W Redundant Power Supplies Titanium Level (96%);
- HW RAID support via Broadcom® 3908;



### Form Factor

3U Rackmount  
Enclosure: (17.2" x 5.2" x 25.5")  
Package: (27" x 13" x 35")

### Processor

Dual Socket E (LGA-4677)  
5th Gen Intel® Xeon® / 4th Gen Intel® Xeon® Scalable processors

### System Memory

Slot Count: 16 DIMM slots  
Max Memory (1DPC): Up to 4TB 5600MT/s ECC DDR5 RDIMM

### Drive Bays Configuration

Default: Total 18 bay(s)  

- 16 front hot-swap 3.5" SAS/SATA drive bay(s)
- 2 rear hot-swap 2.5" SATA drive bay(s)

M.2: 2 M.2 PCIe 4.0 x2 NVMe slot(s) (M-key 2280/22110)  
 Peripheral Bays: 1 slim DVD bay(s) (optional)

### Expansion Slots

Default  

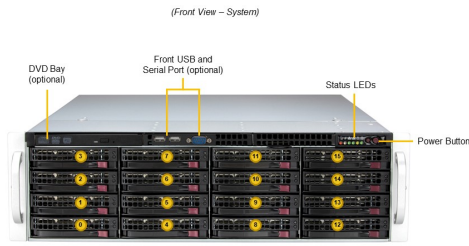
- 4 PCIe 5.0 x16 (in x16) FHHL slot(s)
- 2 PCIe 5.0 x8 (in x8) FH/10.5"L slot(s)

### On-Board Devices

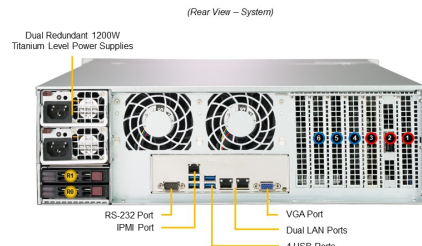
Chipset: Intel® C741  
 Network Connectivity: 2 RJ45 10GbE with Broadcom® BCM57416

### Input / Output

LAN: 1 RJ45 1 GbE Dedicated IPMI LAN port(s)  
 2 RJ45 10 GbE LAN port(s) (Broadcom® BCM57416) (IPMI shared on LAN port 1)  
 USB: 4 USB 3.0 port(s) (rear)  
 Video: 1 VGA port(s) (Rear)  
 Serial: 1 COM port(s) (Rear)  
 TPM: 1 TPM header



Location	Description
(C) - (H)	3.5" Hot-swap SATA3/SAS3 Drive Bays



Drive Bay	Description	Slot Description
(H) - (M)	2 Hot-swap 2.5" SATA3 Drive Bay	1 PCIe 5.0 x16 (occupied by 3908 or 3808 SAS controller)
		2 PCIe 5.0 x16 (occupied by ACM for external SAS)
		3 PCIe 5.0 x16
		4 PCIe 5.0 x16x4

System Cooling	Fans: 5 Heavy Duty 8cm Fan(s)
Power Supply	2x 1200W 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+1 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: 79 lbs (48 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	<b><u><a href="#">Super X13DEI-T</a></u></b>
Chassis	<b>CSE-836BTS-R1K23BP2</b>