

# 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 bays

- 16 front hot-swap 3.5" SAS/SATA drive bays
- 2 rear hot-swap 2.5" SATA drive bays

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

### Expansion Slots

Default

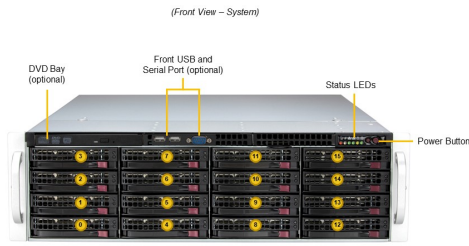
- 4 PCIe 5.0 x16 (in x16) FHHL slots
- 2 PCIe 5.0 x8 (in x8) FH/10.5"L slots

### On-Board Devices

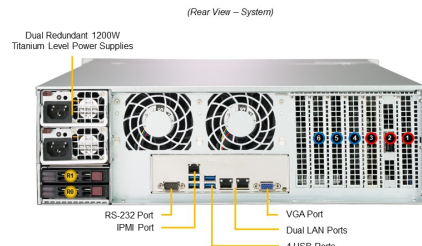
Chipset: Intel® C741  
Network Connectivity: 2 RJ45 10GbE with Broadcom® BCM57416

### Input / Output

LAN: 1 RJ45 1 GbE Dedicated BMC LAN port  
2 RJ45 10 GbE LAN ports (Broadcom® BCM57416) (IPMI shared on LAN port 1)  
USB: 4 USB 3.0 ports(rear)  
Video: 1 VGA port(Rear)  
Serial: 1 COM port(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>Super X13DEI-T</u></b>
Chassis	<b>CSE-836BTS-R1K23BP2</b>