

# Storage SuperServer SSG-631E-E1CR16L

Datasheet Share

3U front-loading storage server with 16 hot-swap 3.5" SAS/SATA bays and PCIe 5.0

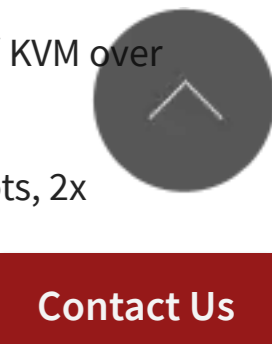


### Key Applications

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

### Key Features

- 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%)
- HBA Controller support via Broadcom® 3808



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## Specifications Resources & Downloads Parts List

### Product SKUs

SuperServer **SSG-631E-E1CR16L**

### Motherboard

**Super X13DEI-T**

### Processor

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

**Note** Supports up to 270W TDP CPUs (Air Cooled)

### System Memory

**Memory** Slot Count: 16 DIMM slots  
Max Memory (1DPC): Up to 4TB 5600MT/s ECC DDR5 RDIMM  
[View Memory Options >](#)

**Memory Voltage** 1.1V

### On-Board Devices

**Chipset** Intel® C741

**Network Connectivity** 2 RJ45 10GbE with Broadcom® BCM57416  
[View AOC Options >](#)

### 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

### 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+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

### Chassis

**Form Factor** 3U Rackmount

**Model** **CSE-836BTS-R1K23BP2**

### Dimensions and Weight

**Height** 5.2"

**Width** 17.2"

**Depth** 25.5"

**Package** 13" (H) x 27" (W) x 35" (D)

**Weight** Gross Weight: 79 lbs (48 kg)

**Available Color** Silver

### Front Panel

**LED** HDD activity  
Network activity  
Power status  
System information (overheat/UID)

**Buttons** Power On/Off

### Expansion Slots

**PCI-Express (PCIe) Configuration** Default  
4 PCIe 5.0 x16 (in x16) FHHL slots  
2 PCIe 5.0 x8 (in x8) FH/10.5"L slots  
[View AOC Options >](#)

### Drive Bays / Storage

**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  
[View Drive Options >](#)

**M.2** 2 M.2 PCIe 4.0 x2 NVMe slots (M-key 2280/22110)  
[View M.2 Options >](#)

**Peripheral Bays** 1 slim DVD bay (optional)

### System Cooling

**Fans** 5 Heavy Duty 8cm Fan(s)

### Power Supply

2x 1200W Redundant Titanium Level (96%) Hot-plug power supplies

**Dimension (WxHxL)** 76 x 40 x 336 mm

**Input** 1000W: 100-127Vac  
1000W: 100-127Vac / 50-60Hz  
1200W: 200-240Vac  
1200W: 200-240Vac / 50-60Hz  
1200W: 200-240Vdc / 50-60Hz (for CCC only)

**+12V** Max: 83A / Min: 0A (100Vac-127Vac)  
Max: 100A / Min: 0A (200Vdc-240Vdc)  
Max: 100A / Min: 0A (200Vac-240Vac)

**5V SB** Max: 4A / Min: 0A

**Output Type** Backplanes (gold finger)

### 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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