

# Storage SuperServer SSG-641E-E1CR36L

4U front/rear-loading storage server with 36 hot-swap 3.5" SAS/SATA bays (6 optional NVMe hybrid) and PCIe 5.0



## 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;
- 36x 3.5"/2.5" Hot-swap SAS3/SATA3 drives, 2x Rear 2.5" SATA Slots, 2x NVMe M.2 (form factor: 2280 and 22110);
- 7x 8cm hot-swap counter-rotate redundant PWM cooling fans;
- 1600W Redundant Power Supplies Titanium Level (96%);
- HBA Controller support via Broadcom® 3808;



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| Form Factor              | 4U Rackmount<br>Enclosure: (17.2" x 7" x 27.5")<br>Package: (27" x 15" x 39")                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Processor                | Dual Socket E (LGA-4677)<br>5th Gen Intel® Xeon®4th Gen Intel® Xeon® Scalable processors                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| System Memory            | Slot Count: 16 DIMM slots<br>Max Memory (1DPC): Up to 4TB 5600MT/s ECC DDR5 RDIMM                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Drive Bays Configuration | Default: Total 38 bays <ul style="list-style-type: none"> <li>• 12 rear hot-swap 3.5" SAS/SATA drive bays</li> <li>• 24 front hot-swap 3.5" SAS/SATA drive bays</li> <li>• 2 rear hot-swap 2.5" SATA drive bays</li> </ul> Option A: Total 6 bays <ul style="list-style-type: none"> <li>• 6 front hot-swap 3.5" PCIe 5.0 x4 NVMe* drive bays</li> </ul> (*NVMe support may require additional storage controller and/or cables, please see the optional parts list for details)<br>M.2: 2 M.2 PCIe 4.0 x2 NVMe slots (M-key 2280/22110) |
| Expansion Slots          | Default <ul style="list-style-type: none"> <li>• 4 PCIe 5.0 x16 (in x16) LP slots</li> <li>• 2 PCIe 5.0 x8 (in x8) LP slots</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                   |
| On-Board Devices         | 2 RJ45 10GbE with Broadcom® BCM57416                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Input / Output           | LAN: 1 RJ45 1 GbE Dedicated BMC LAN port<br>2 RJ45 10 GbE LAN ports (Broadcom® BCM57416) (IPMI shared on LAN port 1)<br>USB: 4 USB 3.0 ports(rear)<br>Video: 1 VGA port(Rear)<br>Serial: 1 COM port(Rear)<br>TPM: 1 TPM header                                                                                                                                                                                                                                                                                                           |



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| System Cooling        | <p>Fans: Up to 7 Heavy Duty 8cm Fan(s)</p> <p>Air Shroud: 1 Air Shroud</p>                                                                                                                                                                                                                                                                               |
| Power Supply          | 2x 1600W Redundant Titanium Level (96%) Hot-plug power supplies                                                                                                                                                                                                                                                                                          |
| System BIOS           | BIOS Type: AMI 32MB SPI Flash EEPROM                                                                                                                                                                                                                                                                                                                     |
| Management            | <p>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!</p>                                                                                                        |
| PC Health Monitoring  | <p>CPU: 7+1 Phase-switching voltage regulator</p> <p>Monitors for CPU Cores, Chipset Voltages, Memory</p> <p>FAN: Fans with tachometer monitoring</p> <p>Pulse Width Modulated (PWM) fan connectors</p> <p>Status monitor for speed control</p> <p>Temperature: Monitoring for CPU and chassis environment</p> <p>Thermal Control for fan connectors</p> |
| Dimensions and Weight | <p>Weight: Gross Weight: 102.5 lbs (46.4 kg)</p> <p>Net Weight: 65.5 lbs (29.7 kg)</p> <p>Available Color: Silver</p>                                                                                                                                                                                                                                    |
| Operating Environment | <p>RoHS Compliant</p> <p>Operating Temperature: 10°C to 35°C (50°F to 95°F)</p> <p>Non-operating Temperature: -40°C to 60°C (-40°F to 140°F)</p> <p>Operating Relative Humidity: 8% to 90% (Non-Condensing)</p> <p>Non-operating Relative Humidity: 5% to 95% (Non-Condensing)</p>                                                                       |
| Motherboard           | <a href="#">Super X13DEI-T</a>                                                                                                                                                                                                                                                                                                                           |
| Chassis               | CSE-847BTS-R1K68LPBP5                                                                                                                                                                                                                                                                                                                                    |