

# Storage SuperServer SSG-640SP-DE1CR90

4U 2-node top-loading storage server with 90 hot-swap 3.5" SAS/SATA bays and PCIe 4.0



More details here

## Key Applications

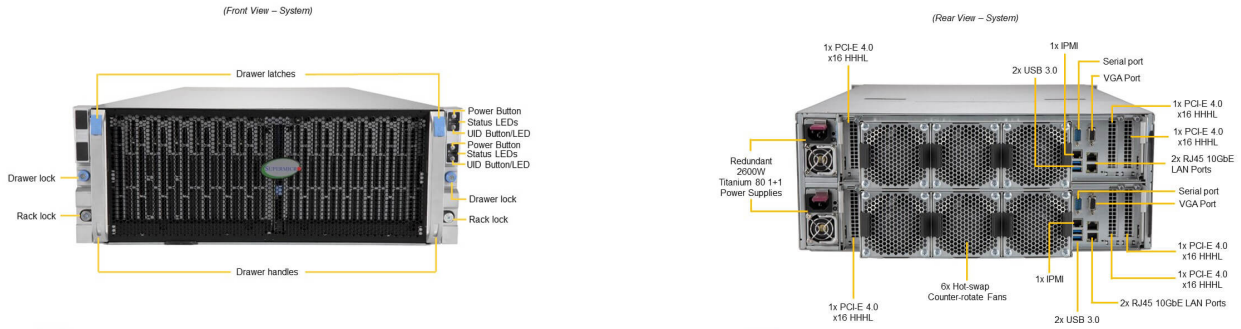
Big Data & Analytics, Data Lake, HPC and AI/ML Workloads, Telco & Cloud Service Providers, Financial Services & Healthcare Image Archives, Content Repositories, Government Data Protection,

## Key Features

- Two **hot-pluggable** systems (nodes) in a 4U form factor. Each node supports the following;
- Dual socket 3rd Gen Intel® Xeon® Scalable processors, up to 72 Cores Per Node;
- 16 ECC DDR4-3200: LRDIMM/RDIMM;
- 3 x PCIe 4.0 x16 HHHL PCIe slots;
- 90 3.5"/2.5" Hot-swap SAS3/SATA3 drives (Each node controls 45 drives);
- 6x 8cm hot-swap counter-rotate redundant PWM cooling fans;
- 2600W Redundant Power Supplies Titanium Level (96%);
- Server remote management: IPMI 2.0 / KVM over LAN / Media over LAN  
Drive Controller support via Broadcom® 3916 or 3616;



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|--------------------------|---|
| Form Factor              | 4U Rackmount<br>Enclosure: 447 x 177 x 1099mm (17.6" x 6.96" x 43.3")   |
| Processor                | Dual Socket P+ (LGA-4189)<br>3rd Gen Intel® Xeon® Scalable processors<br>Up to 36C/72T; Up to 54MB Cache per CPU  |
| System Memory            | Slot Count: 16 DIMM slots<br>Max Memory (2DPC): Up to 4TB 3200MT/s ECC DDR4 RDIMM/LRDIMM  |
| Drive Bays Configuration | Default: Total 47 bays <ul style="list-style-type: none"> <li>• 2 internal fixed 2.5" SATA drive bays</li> <li>• 45 top-loading hot-swap 3.5"/2.5" SAS/SATA drive bays</li> </ul> M.2: 2 M.2 NVMe slots (M-key) |
| Expansion Slots          | Default <ul style="list-style-type: none"> <li>• 3 PCIe 4.0 x16 LP slots</li> </ul>   |
| On-Board Devices         | 2 RJ45 10GBASE-T  |
| Input / Output           | LAN: 1 RJ45 1 GbE Dedicated BMC LAN port<br>2 RJ45 10 GBASE-T LAN ports<br>USB: 2 USB 3.0 ports(rear)<br>Video: 1 VGA port<br>DOM: 2 SuperDOM (Disk on Module) ports  |



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|-----------------------|---|
| System Cooling        | Fans: Up to 6 Heavy Duty 8cm Fan(s)<br>Air Shroud: 1 Air Shroud   |
| Power Supply          | 2x 2600W Redundant Titanium Level (96%) Hot-plug power supplies   |
| System BIOS           | BIOS Type: AMI 128MB 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: 4+1 Phase-switching voltage regulator<br>Monitors for CPU Cores, Chipset Voltages, Memory<br>FAN: Fans with tachometer monitoring<br>Pulse Width Modulated (PWM) fan connectors<br>Status monitor for speed control<br>Temperature: Monitoring for CPU and chassis environment<br>Thermal Control for fan connectors |
| Dimensions and Weight | Weight: Gross Weight: 225 lbs (102.06 kg)<br>Net Weight: 130 lbs (58.97 kg)<br>Available Color: N/A   |
| Operating Environment | RoHS Compliant<br>Operating Temperature: 10°C to 35°C (50°F to 95°F)<br>Non-operating Temperature: -40°C to 60°C (-40°F to 140°F)<br>Operating Relative Humidity: 8% to 90% (Non-Condensing)<br>Non-operating Relative Humidity: 5% to 95% (Non-Condensing)   |
| Motherboard           | <a href="#">Super X12DSC-6</a>  |
| Chassis               | CSE-947HTS-R2K63P   |