Storage SuperServer SSG-640SP-E1CR60

4U top-loading storage server with 60 hot-swap 3.5" SAS/SATA bays and PCIe 4.0

More details here

Key Applications

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

Key Features

- Dual socket 3rd Gen Intel® Xeon® Scalable processors, up to 72 Cores;
- 16 ECC DDR4-3200: LRDIMM/RDIMM;
- 3 x PCIe 4.0 x16 HHHL PCIe slots;
- 60 3.5"/2.5" Hot-swap SAS3/SATA3 drives, 2x Fixed slim SATA SSD, 2x NVMe M.2 (form factor: 2280 and 22110);
- 6x 8cm hot-swap counter-rotate redundant PWM cooling fans;
- 2000W 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;



Form Factor	4U Rackmount Enclosure: 447 x 177 x 826mm (17.6" x 6.96" x 32")
Processor	Dual Socket P+ (LGA-4189) 3rd Gen Intel® Xeon® Scalable processors Up to 36C/72T; Up to 54MB Cache per CPU
System Memory	Slot Count: 16 DIMM slots Max Memory (2DPC): Up to 4TB 3200MT/s ECC DDR4 RDIMM/LRDIMM
Drive Bays Configuration	Default: Total 66 bays • 2 rear hot-swap 2.5" SATA drive bays • 4 rear hot-swap 2.5" NVMe* drive bays • 60 top-loading hot-swap 3.5"/2.5" SAS/SATA drive bays (*NVMe support may require additional storage controller and/or cables, please see the optional parts list for details) M.2: 2 M.2 NVMe slots (M-key)
Expansion Slots	Default • 3 PCIe 4.0 x16 LP slots
On-Board Devices	2 RJ45 10GBASE-T
Input / Output	LAN: 1 RJ45 1 GbE Dedicated BMC LAN port 2 RJ45 10 GBASE-T LAN ports USB: 2 USB 3.0 ports (rear) Video: 1 VGA port DOM: 2 SuperDOM (Disk on Module) ports

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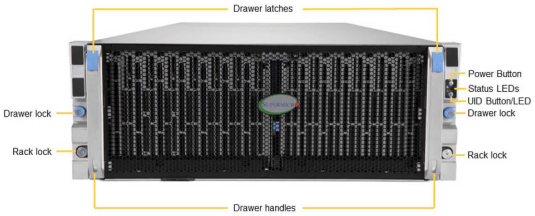
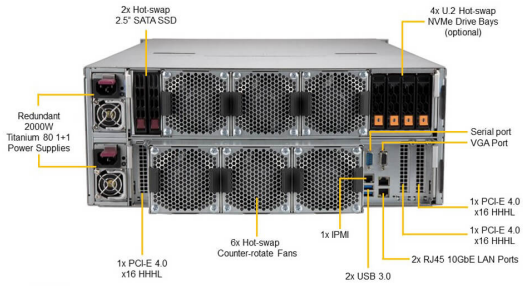
(Front View – System)



(Rear View – System)



System Cooling	Fans: Up to 6 Heavy Duty 8cm Fan(s) Air Shroud: 1 Air Shroud
Power Supply	2x 2000W Redundant Titanium Level (96%) Hot-plug power supplies
System BIOS	BIOS Type: AMI 128MB SPI Flash EEPROM
Management	SuperCloud Composer® (SCC); 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 Monitors for CPU Cores, Chipset Voltages, Memory Fan: Fans with tachometer monitoring Pulse Width Modulated (PWM) fan connectors Status monitor for speed control Temperature: Monitoring for CPU and chassis environment Thermal Control for fan connectors
Dimensions and Weight	Weight: Gross Weight: 170 lbs (77.11 kg) Net Weight: 107 lbs (48.53 kg) Available Color: N/A
Operating Environment	RoHS Compliant Operating Temperature: 10°C to 35°C (50°F to 95°F) Non-operating Temperature: -40°C to 60°C (-40°F to 140°F) Operating Relative Humidity: 8% to 90% () Non-operating Relative Humidity: 5% to 95% ()
Motherboard	**Super X12DSC-6**
Chassis	**CSE-947STS-R2K05P**

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