

Storage SuperServer SSG-640SP-E1CR90



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

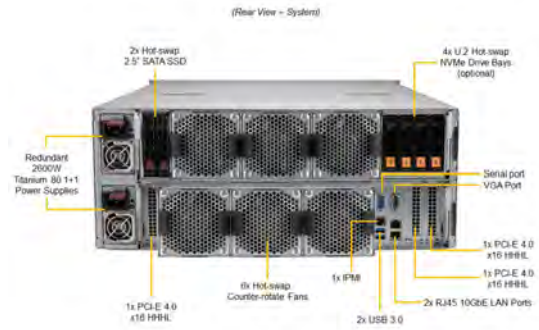
Key Features

- 16 ECC DDR4-3200: LRDIMM/RDIMM;
- 3 x PCI-E 4.0 x16 HHHL PCI-E slots;
- 90 3.5"/2.5" Hot-swap SAS3/SATA3 drives, 2x Fixed slim SATA SSD, 2x NVMe M.2 (form factor: 2280 and 22110);
- 6 x 8cm hot-swap counter-rotate redundant PWM cooling fans;
- 2600W Redundant Power Supplies Titanium Level (96%);
- Drive Controller support via Broadcom® 3916 or 3616; Server remote management: IPMI 2.0 / KVM over LAN / Media over LAN;

[More details here](#)



Form Factor	4U Rackmount Enclosure: (17.6" x 7" x 42.1") Package: (35.82" x 29.92" x 53.15")
Processor	3rd Gen Intel® Xeon® Scalable processors Dual Socket LGA-4189 (Socket P+) supported TDP up to 205W; 3 UPI
System Memory	16 DIMM slots Up to 4TB ECC RDIMM/LRDIMM, DDR4-3200MHz
Drive Bays	90x 3.5" hot-swap SATA3/SAS3 drive bays; 4x 2.5" NVMe dedicated; Optional RAID support via RAID/HBA controller AOC 2x 2.5" 7mm drive bays
Expansion Slots	Slot 1: PCI-E 4.0 x16 LP Slot 2: PCI-E 4.0 x16 LP Slot 3: PCI-E 4.0 x16 LP
On-Board Devices	Chipset: Intel® C621A Network Connectivity: 2x 10GbE BaseT with X550 IPMI: Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
Input / Output	LAN: 1 RJ45 Dedicated IPMI LAN port 2 RJ-45 10Gbase-T ports USB: 2 USB 3.0 port(s) (2 Rear_USB) Video: 1 VGA port(s) Serial Port: 1 COM Port(s) (1 rear) DOM: 2 SuperDOM (Disk on Module) port



Cooling System	6x 8cm heavy duty fan(s)
Power Supply	2600W Redundant Power Supplies with PMBus Dimension (W x H x L): 73.5 x 40 x 265 mm Output Type: 25 Pairs Gold Finger Connector
System BIOS	BIOS Type: AMI 128MB SPI Flash EEPROM
Management	SuperDoctor® 5; Watch Dog; NMI; SUM; IPMI 2.0
PC Health Monitoring	CPU: Monitors for CPU Cores, Chipset Voltages, Memory 4+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	Height: 7" Width: 17.6" Depth: 42.1" Gross Weight: 240 lbs (108.86 kg) Net Weight: 150 lbs (68.04 kg) Packaging: 29.92" x 35.82" x 53.15" Available Color: Black
Operating Environment	ROHS: 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	Super X12DSC-6
Chassis	CSV-947HTS-R2K63P