

Storage SuperServer SSG-542B-CE1CR60L

4U Storage server with 60 hot-swap 3.5" SAS/SATA bays and PCIe 5.0



Key Applications

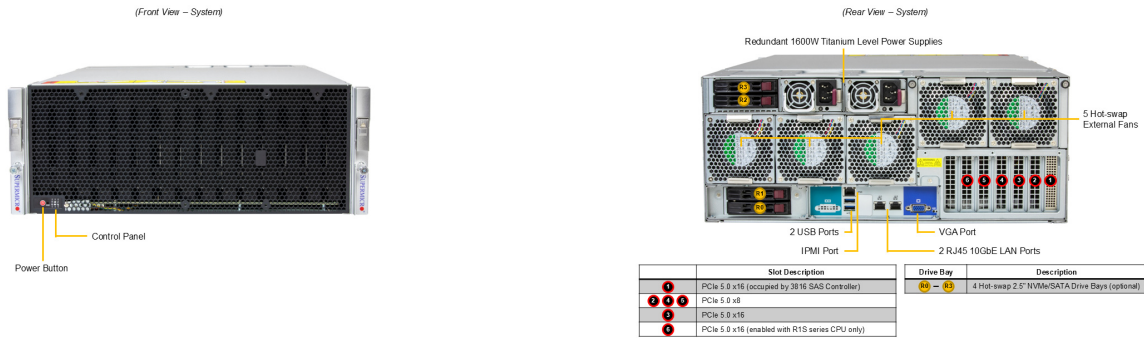
Database Applications, Backup Storage, Cold Storage, Data Warehousing, Archiving,

Key Features

- HBA by Broadcom® SAS3816 on main drive bays
Onboard Trusted Platform Module 2.0 via Infineon TPM 9672;
- Single Intel® Xeon® 6700/6500 series processor up to 350W TDP;
- Up to 2TB DDR5-6400MT/s registered ECC in 8 DIMM slots (1DPC);
- 2 onboard 10GbE ports via Intel® X550 and 1 GbE port for BMC via Aspeed AST2600;
- Six total PCIe slots: 3 PCIe 5.0 x8 + 3 PCIe 5.0 x16 slots *
* Slot 1 is occupied by system's default controller;
- Up to 60 top-loading hot-swap 3.5" SAS/SATA drive bays
Optional 4 hot-plug NVMe or SATA SSDs;
- 2 Redundant 1600W Titanium Level Hot-plug power supplies;



Form Factor	4U Rackmount Enclosure: 437 x 178 x 767.08mm (17.2" x 7" x 26") Package: 711 x 845 x 1080mm (28" x 33.25" x 42.5")
Processor	Single Socket E2 (LGA-4710) Intel® Xeon® 6700/6500 series processors with P-cores or 6700 series processors with E-cores P-cores: Up to 86C/172T; Up to 336MB Cache E-cores: Up to 144C/144T; Up to 108MB Cache
System Memory	Slot Count: 8 DIMM slots Max Memory (1DPC): Up to 2TB 6400MT/s ECC DDR5 RDIMM
Drive Bays Configuration	Default: Total 60 bays • 60 top-loading hot-swap 3.5" SAS/SATA drive bays Option A: Total 4 bays • 4 rear hot-swap 2.5" PCIe 5.0 x8 NVMe* drive bays Option B: Total 4 bays • 4 rear hot-swap 2.5" SATA* drive bays (*NVMe/SATA support may require additional storage controller and/or cables, please see the optional parts list for details) M.2: 2 M.2 PCIe 5.0 x2 NVMe slots (M-key 22110(default))
Expansion Slots	Default • 3 PCIe 5.0 x16 (in x16) LP slots • 3 PCIe 5.0 x8 (in x8) LP slots
On-Board Devices	SATA: SATA (6Gbps) NVMe: NVMe; RAID 0/1/5/10 support(Intel® VROC RAID key required) Chipset: intel System on Chip Network Connectivity: 2 RJ45 10GBASE-T with Intel® X550
Input / Output	LAN: 1 RJ45 1 GbE Dedicated BMC LAN port 2 RJ45 10 GBASE-T LAN ports USB: 2 USB 3.2 Gen1 ports(Header) 2 USB 3.2 Gen1 ports(Rear) Video: 1 VGA port TPM: 1 TPM header



System Cooling	Fans: Up to 5 Heavy Duty 8cm Fan(s) Air Shroud: 1 Air Shroud
Power Supply	2x 1600W Redundant Titanium Level (96%) Hot-plug power supplies
System BIOS	BIOS Type: AMI 64MB UEFI BIOS Features: ACPI 6.5 SMBIOS 3.7 or later UEFI 2.9
Management	SuperCloud Composer® (SCC); Supermicro Server Manager (SSM); Super Diagnostics Offline (SDO); Supermicro Thin-Agent Service (TAS); SuperServer Automation Assistant (SAA) New!
PC Health Monitoring	CPU: 8 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: CPU thermal trip support, Monitoring for CPU and chassis environment, PECI
Dimensions and Weight	Weight: Gross Weight: 169.5 lbs (76.9 kg) Net Weight: 117 lbs (53 kg) Available Color: Black
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 X14SBI-TF
Chassis	CSE-946STS-R1K63LPP