Storage SuperServer SSG-542B-E1CR60

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

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

- Intel® Xeon® 6700/6500 series processors with P-cores or 6700 series processors with E-cores, Single Socket LGA-4710 (Socket E2) supported, CPU TDP supports Up to 350W TDP;
- Up to 2TB ECC RDIMM, DDR5-6400MT/s (1DPC) or DDR5-5200MT/s (2DPC) in 16 DIMM slots;
- 1 PCIe 5.0 x8 and 3 PCIe 5.0 x16 HHHL;
- 60 3.5"/2.5" Hot-swap SAS3/SATA3 drives, 2 2.5" Hot-swap Gen4 NVMe;
- Drive Controller support via Broadcom® 3916 or 3816;
- 2000W Redundant Power Supplies Titanium Level (96%);



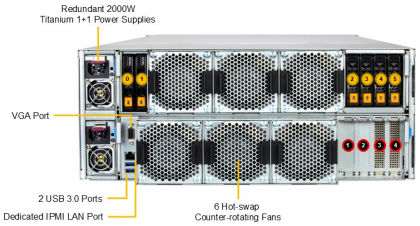
Form Factor	4U Rackmount Enclosure: 447 x 177 x 826mm (17.6" x 6.96" x 32")
Processor	Single Socket E2 (LGA-4710) Intel® Xeon® 6700/6500 series processors with P-cores or 6700 series processors with E-cores P-cores: Up to 86C/144T; Up to 336MB Cache E-cores: Up to 144C/144T; Up to 108MB Cache
System Memory	Slot Count: 16 DIMM slots Max Memory (1DPC): Up to 2TB 6400MT/s ECC DDR5 RDIMM Max Memory (2DPC): Up to 2TB 5200MT/s ECC DDR5 RDIMM
Drive Bays Configuration	Default: Total 60 bays • 60 top-loading hot-swap 3.5"/2.5" SAS/SATA drive bays Option A: Total 4 bays • 4 rear hot-swap 2.5" PCIe 4.0 x4 NVMe* drive bays Option B: Total 2 bays • 2 internal fixed 2.5" PCIe 5.0 x4 NVMe* 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 PCIe 4.0 x2 NVMe slots (M-key 2280/22110)
Expansion Slots	PCI-Express (PCIe) Configuration: Default • 1 PCIe 5.0 x8 (in x8) HHHL slot • 3 PCIe 5.0 x16 (in x16) HHHL slots M.2: 2 M.2 PCIe 4.0 x2 NVMe slots (M-key 2280/22110)
On-Board Devices	NVMe: NVMe; RAID 0/1 support Network Connectivity: No NIC option supported
Input / Output	LAN: 1 RJ45 1 GbE Dedicated BMC LAN port USB: 2 USB 3.0 ports (rear) Video: 1 VGA port TPM: 1 TPM Onboard TPM & TPM Header

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(Front View – System)



(Rear View – System)



Slot	Description
1 – 3	PCIe 5.0 x16
4	PCIe 5.0 x8[1]

[1]Occupied by SAS Controller

Drive Bay	Description
0 – 1	Hot-swap 2.5" PCIe 4.0 x2 NVMe Drive Bays
2 – 5	Optional Hot-swap 2.5" PCIe 5.0 x4 NVMe Drive Bays

System Cooling	Fans: Up to 6 Heavy Duty 8cm Fan(s) Up to 1 Counter Rotating 6cm Fan(s)
Power Supply	2x 2000W Redundant (1 + 1) Titanium Level (96%) power supplies
System BIOS	BIOS Type: AMI 64MB SPI Flash
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: 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	Operating Temperature: 10°C to 35°C (50°F to 95°F) Non-operating Temperature: -40°C to 70°C (-40°F to 158°F) Operating Relative Humidity: 8% to 90% (non-condensing) Non-operating Relative Humidity: 5% to 95% (non-condensing)
Motherboard	**Super X14SBSC**
Chassis	**CSE-947STS-R2K05P**

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