Intel Xeon (X14) | 4U Rackmount | Storage Server

Supermicro SSG-542B-CE1CR60L

Intel Xeon (X14) · 4U Rackmount · Storage Server Server

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Form Factor
4U Rackmount

CPU
Intel® Xeon® 6700/6500 series processors with P-cores or 6700 series processors with E-cores

Memory
Max Memory (1DPC): Up to 2TB 6400MT/s ECC DDR5 RDIMM

Key Features

- HBA by Broadcom® SAS3816 on main drive baysOnboard 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 baysOptional 4 hot-plug NVMe or SATA SSDs
- 2 Redundant 1600W Titanium Level Hot-plug power supplies

Form Factor	4U Rackmount
Platform	Intel Xeon (X14)
CPU	Single Socket E2 (LGA-4710) Intel® Xeon® 6700/6500 series processors with P-cores or 6700 series processors with E-cores
Memory	Slot Count: 8 DIMM slots Max Memory (1DPC): Up to 2TB 6400MT/s ECC DDR5 RDIMM
Drive Bays	Default: Total 60 bays60 top-loading hot-swap 3.5" SAS/SATA drive bays
Fans	Up to 5 Heavy Duty 8cm Fan(s)
Power Supply	2x 1600W Redundant Titanium Level (96%) Hot-plug power supplies

Full Specifications — SSG-542B-CE1CR60L

Product SKUs

Part numbers	SSG-542B-CE1CR60L

Motherboard

Motherboard	Super X14SBI-TF

Processor

CPU	Single Socket E2 (LGA-4710) Intel® Xeon® 6700/6500 series processors with P-cores or 6700 series processors with E-cores
Core Count	P-cores: Up to 86C/172T; Up to 336MB Cache E-cores: Up to 144C/144T; Up to 108MB Cache
Note	Supports up to 350W TDP CPUs (Air Cooled)

System Memory

Memory	Slot Count: 8 DIMM slots Max Memory (1DPC): Up to 2TB 6400MT/s ECC DDR5 RDIMM View Memory Options
Memory Voltage	1.1V

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 View AOC Options

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 BIOS

BIOS Type	AMI 64MB UEFI

BIOS Features	ACPI 6.5 SMBIOS 3.7 or later UEFI 2.9

Management

Software	SuperCloud Composer® (SCC) Supermicro Server Manager (SSM) Super Diagnostics Offline (SDO) Supermicro Thin-Agent Service (TAS) SuperServer Automation Assistant (SAA) New!
Power configurations	ACPI/APM Power Management

Security

Hardware	Trusted Platform Module (TPM) 2.0 Silicon Root of Trust (RoT) – NIST 800-193 Compliant
Features	Cryptographically Signed Firmware Secure Boot Secure Firmware Updates Automatic Firmware Recovery System Lockdown Runtime BMC Protections Supply Chain Security: Remote Attestation

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

Certifications

Operating Systems	Oracle Linux 10.2, RHEL 10.0, Windows Server 2022, Windows Server 2025 View all OS Compatibility and Certification Matrix

Chassis

Form Factor	4U Rackmount
Model	CSE-946STS-R1K63LPP

Dimensions and Weight

Height	7" (178 mm)

Width	17.2" (437 mm)
Depth	30.2" (767.08 mm)
Package	33.25" (H) x 28" (W) x 42.5" (D)
Weight	Gross Weight: 169.5 lbs (76.9 kg) Net Weight: 117 lbs (53 kg)
Available Color	Black

Front Panel

Buttons	Power On/Off button Unit Identification (UID) button
LED	Network activity LEDs Power Fail LED Power status LED System Information LED

Expansion Slots

PCI-Express (PCIe) Configuration	Default3 PCIe 5.0 x16 (in x16) LP slots 3 PCIe 5.0 x8 (in x8) LP slots View AOC Options

Drive Bays / Storage

Drive Bays Configuration	Default: Total 60 bays60 top-loading hot-swap 3.5" SAS/SATA drive bays Option A: Total 4 bays4 rear hot-swap 2.5" PCIe 5.0 x4 NVMe* drive bays Option B: Total 4 bays4 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) View Drive Options
M.2	2 M.2 PCIe 5.0 x2 NVMe slots (M-key 22110(default)) View M.2 Options

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

Dimension (WxHxL)	73.5 x 40 x 265 mm
Input	1000W: 100-127Vac / 50-60Hz 1600W: 200-240Vac / 50-60Hz 1600W: 200-240Vdc / 50-60Hz (for CQC only)

+12V	Max: 83.3A / Min: 0A (100Vac-127Vac) Max: 133.3A / Min: 0A (200Vac-240Vac)
12V SB	Max: 3.5A
Output Type	Backplanes (gold finger)

Operating Environment

RoHS	RoHS Compliant
Environmental Spec.	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% ()