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

Supermicro SSG-542B-E1CR90

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

- 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 16 DIMMs supporting up to 2TB DDR5-6400 in 1DPC or 2TB DDR5-5200 in 2DPC
- Up to 1 PCIe 5.0 x8 HHHL + 3 PCIe 5.0 x16 HHHL slots
- Up to 90 top-loading hot-swap 3.5"/2.5" SAS/SATA + 4 rear hot-swap 2.5" NVMe + 2 internal fixed 2.5" NVMe drive bays
- 2 Redundant 2600W Titanium Level power supplies
- 4U Rackmount chassis

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: 16 DIMM slots Max Memory (1DPC): Up to 2TB 6400MT/s ECC DDR5 RDIMM
Drive Bays	Default: Total 90 bays90 top-loading hot-swap 3.5"/2.5" SAS/SATA drive bays
Fans	Up to 1 Counter Rotating 6cm Fan(s)
Power Supply	2x 2600W Redundant (1 + 1) Titanium Level (96%) power supplies

Full Specifications — SSG-542B-E1CR90

Product SKUs

Part numbers	SSG-542B-E1CR90

Motherboard

Motherboard	Super X14SBSC

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 144C/144T; Up to 108MB 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: 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 View Memory Options
Memory Voltage	1.1V

On-Board Devices

NVMe	NVMe; RAID 0/1 support View NVMe Options
Network Connectivity	No NIC option supported View AOC Options

Input / Output

LAN	1 RJ45 1 GbE Dedicated BMC LAN port
USB	2 USB 3.0 ports (rear)
Video	1 VGA port

System BIOS

BIOS Type	AMI 64MB SPI Flash

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	Power-on mode for AC power recovery ACPI 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 Supply Chain Security: Remote Attestation Runtime BMC Protections System Lockdown

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

Certifications

Operating Systems	Oracle Linux 9.6, RHEL 10.0, Windows Server 2025 View all OS Compatibility and Certification Matrix

Chassis

Form Factor	4U Rackmount
Model	CSE-947HTS-R2K63P

Dimensions and Weight

Height	6.96" (177 mm)
Width	17.6" (447 mm)
Depth	43.3" (1099 mm)

Package	N/A
Weight	Gross Weight: 225 lbs (102.06 kg) Net Weight: 130 lbs (58.97 kg)
Palletized Packing (W x H x L)	35.82" (910 mm) x 29.92" (755 mm) x 53.15" (1345 mm)
Available Color	N/A

Expansion Slots

PCI-Express (PCIe) Configuration	Default1 PCIe 5.0 x8 (in x8) HHHL slot 3 PCIe 5.0 x16 (in x16) HHHL slots View AOC Options
M.2	2 M.2 PCIe 4.0 x2 NVMe slots (M-key 2280/22110)

Drive Bays / Storage

Drive Bays Configuration	Default: Total 90 bays90 top-loading hot-swap 3.5"/2.5" SAS/SATA drive bays Option A: Total 4 bays4 rear hot-swap 2.5" PCIe 5.0 x4 NVMe* drive bays Option B: Total 2 bays2 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) View NVMe Options View Drive Options
M.2	2 M.2 PCIe 4.0 x2 NVMe slots (M-key 2280/22110) View M.2 Options

System Cooling

Fans	Up to 1 Counter Rotating 6cm Fan(s) Up to 6 Heavy Duty 8cm Fan(s)

Power Supply

2x 2600W Redundant (1 + 1) Titanium Level (96%) power supplies

Dimension (WxHxL)	73.5 x 40 x 265 mm
Input	2600W: 200-240Vac / 50-60Hz 2600W: 200-240Vdc / 50-60Hz (for CQC only)
+12V	Max: 216A / Min: 0A (200Vac-240Vac)
12V SB	Max: 3.5A
Output Type	Backplanes (gold finger)

Operating Environment

Environmental Spec.	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)