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

Supermicro SSG-542B-E1CR36L

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 via Broadcom® SAS3816 connected on all 2.5"/3.5" 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 1GbE port for BMC via Aspeed AST2600

Six total PCIe slots: 3 PCIe 5.0 x8 + 3 PCIe 5.0 x16 slots ** Slot 1 & 2 are occupied by system's default controller and JBOD module

* up to total 10 NVMe ports in the system4U hybrid hot-swap NVMe/SAS3/SATA3 main (3.5" x 36) and rear (2.5" x 2) drive bays *

1600W Redundant Titanium Level (96%) 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/8 Channels Max Memory (1DPC): Up to 2TB 6400MT/s ECC DDR5 RDIMM
Drive Bays	Default: Total 38 bays24 front hot-swap 3.5" SAS/SATA drive bays 12 rear hot-swap 3.5" SAS/SATA drive bays 2 rear hot-swap 2.5" SAS/SATA drive bays
Fans	7 Heavy Duty PWM 80x80x38mm Fan(s)
Power Supply	2x 1600W Redundant (1 + 1) Titanium Level (96%) power supplies

Full Specifications — SSG-542B-E1CR36L

Product SKUs

Part numbers	SSG-542B-E1CR36L

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

On-Board Devices

SATA	4 x SlimSAS
SAS	SAS (12Gbps) via Broadcom® 3916; RAID 0/1/5/6/10/50/60 support
NVMe	NVMe; RAID 0/1 support(Intel® VROC RAID key required) View NVMe Options
Network Connectivity	2 RJ45 10GbE with Intel® X550 View AOC Options

Input / Output

LAN	2 RJ45 10 GbE LAN ports (Intel® X550) 1 RJ45 1 GbE Dedicated BMC LAN port (IPMI shared on LAN port 1)
USB	2 USB 3.2 Gen1 ports (Header) 2 USB 3.2 Gen1 ports (Rear)
Video	1 VGA port
Serial	1 COM port (header)
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-847BTS-R1K68LPBP5

Dimensions and Weight

Height	7"
Width	17.2"
Depth	27.5"
Package	15" (H) x 27" (W) x 39" (D)
Weight	Gross Weight: 102.5 lbs (46.4 kg) Net Weight: 65.5 lbs (29.7 kg)
Available Color	Silver

Front Panel

Buttons	Power On/Off
LED	HDD activity Network activity Power status System information (overheat/UID)

Expansion Slots

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

Drive Bays / Storage

Drive Bays Configuration	Default: Total 38 bays24 front hot-swap 3.5" SAS/SATA drive bays 12 rear hot-swap 3.5" SAS/SATA drive bays 2 rear hot-swap 2.5" SAS/SATA drive bays Option A: Total 10 bays8 front hot-swap 3.5" PCIe 5.0 x4 NVMe* drive bays 2 rear hot-swap 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 5.0 x2 NVMe slots (M-key 22110(default)) View M.2 Options

System Cooling

Fans	7 Heavy Duty PWM 80x80x38mm Fan(s)
Air Shroud	1 Air Shroud

Power Supply

2x 1600W Redundant (1 + 1) Titanium Level (96%) power supplies

Dimension (WxHxL)	76 x 40 x 336 mm

Input	800W: 100-140Vac / 50-60Hz 1600W: 180-240Vac / 50-60Hz
+12V	Max: 66A / Min: 0A (100Vac-140Vac) Max: 133A / Min: 0A (180Vac-240Vac)
5V SB	Max: 1A / Min: 0A
Output Type	Backplanes (gold finger)
Certification	Titanium Level [Test Report]

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 70°C (-40°F to 158°F) Operating Relative Humidity: 8% to 90% (non-condensing) Non-operating Relative Humidity: 5% to 95% (non-condensing)