Intel Xeon (X14) | 3U Rackmount | Storage Server

Supermicro SSG-532B-ACR16H

Intel Xeon (X14) · 3U Rackmount · Storage Server Server

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Form Factor	CPU
3U Rackmount	**Intel® Xeon® 6700/6500 series processors with P-cores or 6700 series processors with E-cores**
GPU	**Memory**
Up to 1 double-width GPU	**Max Memory (1DPC): Up to 2TB 6400MT/s ECC DDR5 RDIMM**

Key Features

- Single Intel® Xeon® 6700/6500 series processor up to 350W TDP
- Up to 2TB DDR5-6400MT/s ECC Registered in 8 DIMM slots (1DPC)
- 2 onboard 10GbE ports via Intel® X550 and 1 GbE port for BMC via Aspeed AST2600
- 6 PCIe slots: 3 PCIe 5.0 x8 + 3 PCIe 5.0 x16 slots (slot 1 is occupied by system's default controller)
- 16 hot-swappable 3.5"/2.5" SAS3/SATA3 front drive bay with 6 optional NVMe, 2 rear 2.5" SATA drive bay, 2 onboard NVMe M.2 (22110)
- 2 Redundant 1200W Titanium Level Hot-plug power supplies
- 3U Rackmount chassis with 25.5" depth

Form Factor	3U 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
Max GPU Count	Up to 1 double-width GPU
Supported GPU	NVIDIA PCIe: NVIDIA RTX PRO 2000 Blackwell
Memory	Slot Count: 8 DIMM slots Max Memory (1DPC): Up to 2TB 6400MT/s ECC DDR5 RDIMM
Drive Bays	Default: Total 18 bays16 front hot-swap 3.5" SAS/SATA drive bays 2 rear hot-swap 2.5" SATA drive bays

Fans	Up to 5 Heavy Duty 8cm Fan(s)
Power Supply	2x 1200W Redundant Titanium Level (96%) Hot-plug power supplies

Full Specifications — SSG-532B-ACR16H

Product SKUs

Part numbers	SSG-532B-ACR16H

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)

GPU

Max GPU Count	Up to 1 double-width GPU
Supported GPU	NVIDIA PCIe: NVIDIA RTX PRO 2000 Blackwell View GPU Options

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)
SAS	SAS (12Gbps) via Broadcom® 3916; RAID 0/1/5/6/10/50/60 support(IR mode)
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 (Intel® X550) (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 (Rear)
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 Supply Chain Security: Remote Attestation Runtime BMC Protections System Lockdown

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	3U Rackmount
Model	CSE-836BTS-R1K23BP3

Dimensions and Weight

Height	5.2" (132.1 mm)
Width	17.2" (436.9 mm)
Depth	25.5" (647.7 mm)
Package	13" (H) x 27" (W) x 35" (D)
Weight	Gross Weight: 79 lbs (35.84 kg) Net Weight: 40 lbs (18.14 kg)
Available Color	Silver

Front Panel

Buttons	Power On/Off button System Reset button
LED	HDD activity 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) FH/10.5"L slots 3 PCIe 5.0 x8 (in x8) FH/10.5"L slots View AOC Options

Drive Bays / Storage

Drive Bays Configuration	Default: Total 18 bays16 front hot-swap 3.5" SAS/SATA drive bays 2 rear hot-swap 2.5" SATA drive bays Option A: Total 6 bays6 front hot-swap 3.5" 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 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 1200W Redundant Titanium Level (96%) Hot-plug power supplies

Dimension (WxHxL)	76 x 40 x 336 mm
Input	1000W: 100-127Vac / 50-60Hz 1200W: 200-240Vac / 50-60Hz 1200W: 200-240Vdc / 50-60Hz (for CCC only)
+12V	Max: 83A / Min: 0A (100Vac-127Vac) Max: 100A / Min: 0A (200Vac-240Vac) Max: 100A / Min: 0A (200Vdc-240Vdc)
5V SB	Max: 4A / Min: 0A
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-Condensing) Non-operating Relative Humidity: 5% to 95% (Non-Condensing)