Intel Xeon (X14) | 2U Rackmount | Storage Server

# Supermicro SSG-522B-ACR12H

## Intel Xeon (X14) · 2U Rackmount · Storage Server Server

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Form Factor
**2U 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

- HW RAID by Broadcom® SAS3916 on both front and rear 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 ECC Registered 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
- 2U all hybrid hot-swap NVMe/SAS3/SATA3 front(3.5" x 12) and rear(2.5" x 2) drive bays ** up to total 12 NVMe ports in the system
- 1200W Redundant Titanium Level (96%) Hot-plug power supplies

| | |
|---|---|
| **Form Factor** | 2U Rackmount |
| **Platform** | Intel Xeon (X14) |
| **CPU** | Single Socket E2 (LGA-4710)<br>Intel® Xeon® 6700/6500 series processors with P-cores or 6700 series processors with E-cores |
| **Memory** | Slot Count: 8 DIMM slots/8 Channels<br>Max Memory (1DPC): Up to 2TB 6400MT/s ECC DDR5 RDIMM |
| **Drive Bays** | Default: Total 14 bays12 front hot-swap 3.5" NVMe*/SAS/SATA drive bays 2 rear hot-swap 2.5" NVMe*/SAS/SATA drive bays |
| **Fans** | Up to 3 Heavy Duty PWM 80x80x38mm Fan(s) |

| | |
|---|---|
| **Power Supply** | 2x 1200W Redundant (1 + 1) Titanium Level (96%) Hot-plug power supplies |

# Full Specifications — SSG-522B-ACR12H

## Product SKUs

| | |
|---|---|
| **Part numbers** | SSG-522B-ACR12H |

## Motherboard

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|---|---|
| **Motherboard** | Super X14SBI-TF |

## Processor

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|---|---|
| **CPU** | Single Socket E2 (LGA-4710)<br>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<br>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<br>Max Memory (1DPC): Up to 2TB 6400MT/s ECC DDR5 RDIMM<br>View Memory Options |
| **Memory Voltage** | 1.1V |

## On-Board Devices

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|---|---|
| **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)<br>View NVMe Options |
| **Network Connectivity** | 2 RJ45 10GbE with Intel® X550<br>View AOC Options |

## Input / Output

| | |
|---|---|
| **LAN** | 2 RJ45 10 GbE LAN ports (Intel® X550)<br>1 RJ45 1 GbE Dedicated BMC LAN port (IPMI shared on LAN port 1) |
| **USB** | 2 USB 3.2 Gen1 ports (Header)<br>2 USB 3.2 Gen1 ports (Rear) |
| **Video** | 1 VGA port (Rear) |
| **Serial** | 1 COM port (header) |
| **TPM** | 1 TPM header |

## System BIOS

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|---|---|
| **BIOS Type** | AMI 64MB UEFI |
| **BIOS Features** | ACPI 6.5<br>SMBIOS 3.7 or later<br>UEFI 2.9 |

## Management

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

## Security

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

## PC Health Monitoring

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|---|---|
| **CPU** | 8 Phase-switching voltage regulator<br>Monitors for CPU Cores, Chipset Voltages, Memory |
| **Fan** | Fans with tachometer monitoring<br>Pulse Width Modulated (PWM) fan connectors<br>Status monitor for speed control |
| **Temperature** | CPU thermal trip support, Monitoring for CPU and chassis environment, PECI |

## Certifications

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|---|---|
| **Operating Systems** | Oracle Linux 10.2, RHEL 10.0, Windows Server 2022, Windows Server 2025<br>View all OS Compatibility and Certification Matrix |

## Chassis

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|---|---|
| **Form Factor** | 2U Rackmount |
| **Model** | CSE-826BTS-R1K23LPBP2 |

## Dimensions and Weight

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|---|---|
| **Height** | 3.5" (89 mm) |
| **Width** | 17.2" (437 mm) |
| **Depth** | 25.6" (650 mm) |
| **Package** | 11.5" (H) x 26.5" (W) x 34" (D) |
| **Weight** | Gross Weight: 58 lbs (26.3 kg)<br>Net Weight: 34 lbs (15.4 kg) |
| **Available Color** | Black |

## Front Panel

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|---|---|
| **Buttons** | Power On/Off<br>System Reset |
| **LED** | Device Activity<br>LAN 1 Activity<br>LAN 2 Activity<br>Power Failure LED<br>Power status<br>System information |

## Expansion Slots

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|---|---|
| **PCI-Express (PCIe) Configuration** | Default3 PCIe 5.0 x16 (in x16) LP slots 3 PCIe 5.0 x8 (in x8) LP slots<br>View AOC Options |

## Drive Bays / Storage

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|---|---|
| **Drive Bays Configuration** | Default: Total 14 bays12 front hot-swap 3.5" NVMe*/SAS/SATA drive bays 2 rear hot-swap 2.5" NVMe*/SAS/SATA drive bays<br>(*NVMe support may require additional storage controller and/or cables, please see the optional parts list for details)<br>View NVMe Options<br>View Drive Options |
| **M.2** | 2 M.2 PCIe 5.0 x2 NVMe slots (M-key 22110(default))<br>View M.2 Options |

## System Cooling

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|---|---|
| **Fans** | Up to 3 Heavy Duty PWM 80x80x38mm Fan(s) |
| **Air Shroud** | 1 Air Shroud |

## Power Supply

### 2x 1200W Redundant (1 + 1) Titanium Level (96%) Hot-plug power supplies

| | |
|---|---|
| **Dimension (WxHxL)** | 76 x 40 x 336 mm |

| | |
|---|---|
| **Input** | 1000W: 100-127Vac / 50-60Hz<br>1200W: 200-240Vac / 50-60Hz<br>1200W: 200-240Vdc / 50-60Hz (for CCC only) |
| **+12V** | Max: 83A / Min: 0A (100Vac-127Vac)<br>Max: 100A / Min: 0A (200Vac-240Vac)<br>Max: 100A / Min: 0A (200Vdc-240Vdc) |
| **5V SB** | Max: 4A / Min: 0A |
| **Output Type** | Backplanes (gold finger) |

## Operating Environment

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|---|---|
| **RoHS** | RoHS Compliant |
| **Environmental Spec.** | Operating Temperature: 10°C to 35°C (50°F to 95°F)<br>Non-operating Temperature: -40°C to 70°C (-40°F to 158°F)<br>Operating Relative Humidity: 8% to 90% (non-condensing)<br>Non-operating Relative Humidity: 5% to 95% (non-condensing) |