

Storage SuperServer SSG-641E-E1CR24L

Datasheet Share

4U front-loading storage server with 24 hot-swap 3.5" SAS/SATA bays (6 optional NVMe hybrid) and PCIe 5.0



Key Applications

- Enterprise Server
- HPC, Data Center
- Corporate Database
- iSCSI SAN
- Database Processing & Storage
- Appliance Optimized Storage Building Blocks

Key Features

- Dual Socket E (LGA-4677) 5th/4th Gen Intel® Xeon® Scalable processors
- Up to 4TB 3DS ECC RDIMM, DDR5-5600MT/s(1DPC) in 16 DIMM slots
- 2x 10 GbE onboard via Broadcom BCM57416
 - 1x GbE Dedicated LAN for server remote management: IPMI 2.0 / KVM over LAN / Media over LAN

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Specifications Resources & Downloads Parts List

Product SKUs

SuperServer **SSG-641E-E1CR24L**

Motherboard

Super X13DEI-I

Processor

CPU Dual Socket E (LGA-4677)
[5th Gen Intel® Xeon®](#) / [4th Gen Intel® Xeon® Scalable processors](#)

Note Supports up to 270W TDP CPUs (Air Cooled)

System Memory

Memory Slot Count: 16 DIMM slots
 Max Memory (1DPC): Up to 4TB 5600MT/s ECC DDR5 RDIMM
[View Memory Options >](#)

Memory Voltage 1.1V

On-Board Devices

Chipset Intel® C741

Network Connectivity 2 RJ45 10GbE with Broadcom® BCM57416
[View AOC Options >](#)

Input / Output

LAN 1 RJ45 1 GbE Dedicated BMC LAN port
 2 RJ45 10 GbE LAN ports (Broadcom® BCM57416) (IPMI shared on LAN port 1)

USB 4 USB 3.0 ports(rear)

Video 1 VGA port(Rear)

Serial 1 COM port(Rear)

TPM 1 TPM header

System BIOS

BIOS Type AMI 32MB SPI Flash EEPROM

Management

Software [SuperCloud Composer](#)
[Supermicro Server Manager \(SSM\)](#)
[Supermicro Update Manager \(SUM\)](#)
[Supermicro SuperDoctor® 5 \(SD5\)](#)
[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
 7+1 Phase-switching voltage regulator

FAN Fans with tachometer monitoring
 Status monitor for speed control
 Pulse Width Modulated (PWM) fan connectors

Temperature Monitoring for CPU and chassis environment
 Thermal Control for fan connectors

Chassis

Form Factor 4U Rackmount

Model **CSE-846BTS-R1K23BP5**

Dimensions and Weight

Height 7"

Width 17.2"

Depth 26"

Package 15" (H) x 27" (W) x 39" (D)

Weight Gross Weight: 92 lbs (41.7 kg)
 Net Weight: 55 lbs (24.9 kg)

Available Color Silver

Front Panel

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

Buttons Power On/Off

Expansion Slots

PCI-Express (PCIe) Configuration Default
 4 PCIe 5.0 x16 (in x16) FHHL slots
 2 PCIe 5.0 x8 (in x8) FH/10.5"L slots
[View AOC Options >](#)

Drive Bays / Storage

Drive Bays Configuration Default: Total 26 bays
 2 rear hot-swap 2.5" SATA drive bays
 24 front hot-swap 3.5" SAS/SATA drive bays
 Option A: Total 6 bays
 6 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 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 5 Heavy Duty 8cm Fan(s)

Power Supply

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

Dimension (WxHxL) 76 x 40 x 336 mm

Input 1000W: 100-127Vac
 1000W: 100-127Vac / 50-60Hz
 1200W: 200-240Vac
 1200W: 200-240Vac / 50-60Hz
 1200W: 200-240Vdc / 50-60Hz (for CCC only)

+12V Max: 83A / Min: 0A (100Vac-127Vac)
 Max: 100A / Min: 0A (200Vdc-240Vdc)
 Max: 100A / Min: 0A (200Vac-240Vac)

5V SB Max: 4A / Min: 0A

Output Type Backplanes (gold finger)

Operating Environment

ROHS RoHS Compliant

Environmental Spec. Operating Temperature: 10°C ~ 35°C (50°F ~ 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)

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Global SKU English

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