

BigTwin SuperServer SYS-222BT-HER (Complete System Only) 🔒 Coming Soon

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2U 4-Node BigTwin with 8 hot-swap E3.S 1T NVMe drives per node



Key Applications

- All-Flash NVMe Hyperconverged Infrastructure
- Container-as-a-Service; Application Accelerator
- High-Performance File System
- Diskless HPC Clusters

Key Features

Four **hot-pluggable** systems (nodes) in a 2U form factor. Each node supports the following:

1. Dual Socket E2 Intel® Xeon® 6 6700 series processors with E-cores up to 205W with air cooling or 330W with liquid cooling
2. Up to 16 DIMMs supporting up to 4TB DDR5-6400 in 1DPC
3. Flexible networking with OCP 3.0 AIOM slot
4. Up to 2 PCIe 5.0 x16 LP slots
 - Internal PCIe 5.0 for 2x NVMe M.2 support onboard
 - Optional 4x NVMe M.2 support onboard with built-in HW RAID1 via SCC-A2NM2241GH-B1
5. Up to 8 front hot-swap E3.S 1T PCIe 5.0 NVMe drive bays



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Specifications Resources & Downloads Parts List

Product SKUs

SuperServer **SYS-222BT-HER**

Motherboard

Super X14DBT-B

Processor (per Node)

CPU Dual Socket E2 (LGA-4710)
[Intel® Xeon® 6700 series processors with E-cores](#)

Core Count Up to 144C/144T; Up to 108MB Cache per CPU

Note Supports up to 205W TDP CPUs (Air Cooled)*
Supports up to 330W TDP CPUs (Liquid Cooled)
*Air Cooled CPUs with TDP over 205W only supported under specific conditions. Contact a Supermicro representative for details.

System Memory (per Node)

Memory Slot Count: 16 DIMM slots
Max Memory (1DPC): Up to 2TB 6400MT/s ECC DDR5 RDIMM
[View Memory Options >](#)

On-Board Devices (per Node)

Chipset System on Chip

Network Connectivity Via AIOM
[View AIOM Options >](#)
[View AOC Options >](#)

Input / Output (per Node)

LAN 1 RJ45 1 GbE Dedicated BMC LAN port

USB 2 USB 3.0 Gen2 Type-A ports(Rear)

Video 1 VGA port

System BIOS

BIOS Type AMI 32MB Flash ROM

Management

Software [SuperCloud Composer](#)
[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

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

Temperature Monitoring for CPU and chassis environment

CPU Monitors for CPU Cores, Chipset Voltages, Memory.
8+4 Phase-switching voltage regulator

Chassis

Form Factor 2U Rackmount

Model **CSE-217BE3Q-R3K60P**

Dimensions and Weight

Height 3.47" (88 mm)

Width 17.68" (449 mm)

Depth 28.75" (730 mm)

Package 9.76" (H) x 24.65" (W) x 45.28" (D)

Weight Gross Weight: 96.6 lbs (43.8 kg)
Net Weight: 66.1 lbs (30 kg)

Available Color Black front & silver body

Front Panel

LED HDD activity LED
Network activity LEDs
Power status LED
Universal Information (UID) LED

Buttons Power On/Off button
UID button

Expansion Slots (per Node)

PCI-Express (PCIe) Configuration Default
2 PCIe 5.0 x16 LP slots
1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible)
[View AOC Options >](#)

Drive Bays / Storage (per Node)

Drive Bays Configuration Default: Total 8 bays
8 front hot-swap E3.S 1T PCIe 5.0 NVMe drive bays

M.2 2 M.2 PCIe 5.0 x4 NVMe slots (M-key 22110(default); VROC required for RAID)

System Cooling

Fans 4x 16K RPM Counter Rotating 80x80x56mm Fan(s)

Liquid Cooling Direct to Chip (D2C) Cold Plate (optional)

Power Supply

2x 3600W Redundant (1 + 1) Titanium Level (96%) power supplies

Dimension (WxHxL) 45 x 40 x 480 mm

Input 3600W: 0240Vdc / 50-60Hz (for CQC only)
1400W: 100-127Vac / 50-60Hz
3000W: 200-207.9Vac / 50-60Hz
3100W: 208-219.9Vac / 50-60Hz
3250W: 220-229.9Vac / 50-60Hz
3450W: 230-237.9Vac / 50-60Hz
3600W: 238-240Vac / 50-60Hz

+12V Max: 112A / Min: 0A (100Vac-127Vac)
Max: 240A / Min: 0A (200Vac-207.9Vac)
Max: 248A / Min: 0A (208Vac-219.9Vac)
Max: 260A / Min: 0A (220Vac-229.9Vac)
Max: 276A / Min: 0A (230Vac-237.9Vac)
Max: 288A / Min: 0A (238Vac-240Vac)

12V SB Max: 4.5A / 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: -30°C to 60°C (-22°F to 140°F)
Operating Relative Humidity: 8% to 80% (non-condensing)
Non-operating Relative Humidity: 8% to 90% (non-condensing)

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