

BigTwin SuperServer SYS-222BT-HER

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;;
- Dual Socket E2 Intel® Xeon® 6700/6500 series processors with P-cores or 6700 series processors with E-cores up to 250W with air cooling or 350W with liquid cooling
Single CPU configurations supported while maintaining all expansion slot functionality; see Option A for drive support limitations;
- Up to 16 DIMMs supporting up to 4TB DDR5-6400 in 1DPC;
- Flexible networking with OCP 3.0 AIOM slot;
- 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;
- Up to 8 front hot-swap E3.S 1T PCIe 5.0 NVMe drive bays;



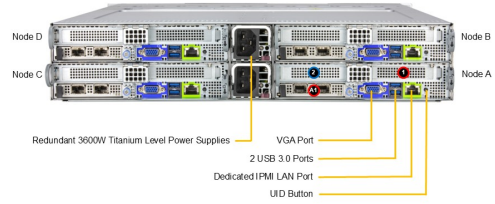
Form Factor	2U Rackmount Enclosure: 449 x 88 x 730mm (17.68" x 3.47" x 28.75") Package: 626 x 248 x 1150mm (24.65" x 9.76" x 45.28")
Processor	Dual Socket E2 (LGA-4710) Intel® Xeon® 6700/6500 series processors with P-cores or 6700 series processors with E-cores P-cores: Up to 86C/172T; Up to 336MB Cache per CPU E-cores: Up to 144C/144T; Up to 108MB Cache per CPU
System Memory	Slot Count: 16 DIMM slots Max Memory (1DPC): Up to 4TB 6400MT/s ECC DDR5 RDIMM
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)
Expansion Slots	Default • 2 PCIe 5.0 x16 LP slots • 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible)
On-Board Devices	Via AIOM
Input / Output	LAN: 1 RJ45 1 GbE Dedicated BMC LAN port USB: 2 USB 3.0 Gen2 Type-A ports(Rear) Video: 1 VGA port

(Front View – System)



Drive Bay (Node A-C)	Description
1 - 4	4 E3.S 1T Hot-swap NVMs (CPU 1) Drive Bays
5 - 8	4 E3.S 1T Hot-swap NVMs (CPU 2) Drive Bays

(Rear View – System)



Slot Description	
1	PCIe 5.0 x16 LP Slot
2	PCIe 5.0 x16 LP Slot
3	PCIe 5.0 x16 AOM Slot

System Cooling	Fans: Up to 4x 16K RPM Counter Rotating 80x80x56mm Fan(s) Air Shroud: 4 Air Shrouds Liquid Cooling: Direct to Chip (D2C) Cold Plate (optional)
Power Supply	2x 3600W Redundant (1 + 1) Titanium Level (96%) power supplies
System BIOS	BIOS Type: AMI 32MB Flash ROM
Management	SuperCloud Composer® (SCC); Supermicro Server Manager (SSM); Super Diagnostics Offline (SDO); Supermicro Thin-Agent Service (TAS); SuperServer Automation Assistant (SAA) New!
PC Health Monitoring	CPU: 8+4 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: Monitoring for CPU and chassis environment
Dimensions and Weight	Weight: Gross Weight: 96.6 lbs (43.8 kg) Net Weight: 66.1 lbs (30 kg) Available Color: Black front & silver body
Operating Environment	RoHS Compliant Operating Temperature: 10°C to 35°C (50°F to 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)
Motherboard	Super X14DBT-B
Chassis	CSE-217BE3Q-R3K60P