

BigTwin SuperServer SYS-221BT-HNC9R

2U 4-Node BigTwin with 6 hot-swap 2.5" NVMe/SATA (2 NVMe hybrid) drives per node

Key Applications

Mission Critical HPC, Virtualized Big Data Analytics, High-Density Storage RAID Array,

Key Features

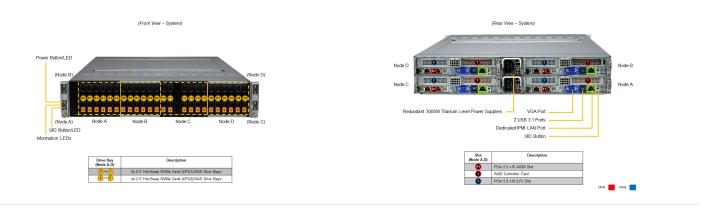
- Socket E (LGA 4677) support 5th/4th Gen Intel® Xeon® Scalable processors;
- Intel[®] C741;
- 16 DIMM Slots supporting up to 4TB of memory; ECC RDIMMs up to DDR5-5600;
- Internal PCIe 4.0 x8 for 2 M.2 NVMe support onboard 1 PCIe 5.0 x16 (LP) slot; Tool-less support Optional M.2 (22x80) HW RAID1 NVMe Boot Controller via SCC-A2NM2241G3-B1;
- Network connectivity via AIOM (OCP 3.0 compliant);
- 6 hot-swap 2.5" drive bays (2x PCIe 5.0 NVMe/SAS and 4x PCIe 4.0 NVMe/SAS)
- Built-in SAS3 Support via Broadcom 3908; IR Mode;
- Liquid Cooling Support
- 4 cooling fans per 2U enclosure, 16K RPM; Shared Cooling Design, Counter-Rotating; • 3000W Redundant Power Supplies Titanium Level (96%+); Shared Power
- FormeEagtor
- 2U Rackmount Four hot-pluggable systems (nodes in both for a state of a stat Package: 626 x 248 x 1150mm (24.65" x 9.76" x 45.28") the following:;

Processor	Dual Socket E (LGA-4677)
	5th Gen Intel® Xeon® / 4th Gen Intel® Xeon® Scalable processors
	Supports Intel Xeon CPU Max Series with high bandwidth memory (HBM)
	Up to 64C/128T; Up to 320MB Cache per CPU
System Memory	Slot Count: 16 DIMM slots
	Max Memory (1DPC): Up to 4TB 5600MT/s ECC DDR5 RDIMM
Drive Bays Configuration	Default: Total 6 bay(s)
	 2 front hot-swap 2.5" PCIe 5.0 NVMe/SAS drive bay(s)
	 4 front hot-swap 2.5" PCIe 4.0 NVMe/SAS drive bay(s)
	M.2: 2 M.2 PCIe 4.0 x4 NVMe slot(s) (M-key 22110(default); VROC required for RAID)
Expansion Slots	Default
	• 1 PCIe 5.0 x16 LP slot(s)
On-Board Devices	SAS: SAS (12Gbps) via Broadcom [®] 3908; RAID 0/1/5/6/10/50 support
	Chipset: Intel® C741
	Network Connectivity: Via AIOM
	IPMI: Support for Intelligent Platform Management Interface v.2.0
	IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
Input / Output	LAN: 1 RJ45 1 GbE Dedicated BMC LAN port(s)
	USB: 2 USB 3.0 Gen2 Type-A port(s) (Rear)
	Video: 1 VGA port(s)









System Cooling	Fans: 4x 16K RPM Counter Rotating 8cm Fan(s) Liquid Cooling: Direct to Chip (D2C) Cold Plate (optional)
Power Supply	3000W Redundant Titanium Level power supplies
System BIOS	BIOS Type: AMI 32MB Flash ROM
Management	Redfish API; Supermicro Server Manager (SSM); Supermicro Power Manager (SPM); Supermicro Update Manager (SUM); SuperDoctor® 5; Super Diagnostics Offline ; KVM with dedicated LAN ; IPMI 2.0
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
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 ~ 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)
Motherboard	Super X13DET-B
Chassis	CSE-217BQ2-R3K04P