

BigTwin SuperServer SYS-221BT-HNC9R

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



More details he

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

FormeFactor 2U Rackmount



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 bays

2 front hot-swap 2.5" PCIe 5.0 NVMe/SAS drive bays
4 front hot-swap 2.5" PCIe 4.0 NVMe/SAS drive bays

M.2: 2 M.2 PCIe 4.0 x4 NVMe slots (M-key 22110(default); VROC required for RAID)

Expansion Slots Default

• 1 PCle 5.0 x16 LP slot

On-Board Devices SAS: SAS (12Gbps) via Broadcom® 3908; RAID 0/1/5/6/10/50 support

Chipset: Intel® C741

Network Connectivity: Via AIOM

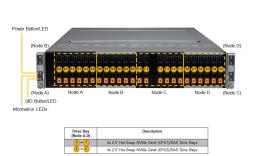
Input / Output LAN: 1 RJ45 1 GbE Dedicated BMC LAN port

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

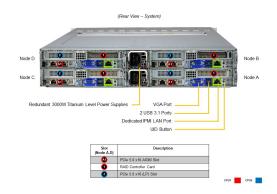
Video: 1 VGA port







(Front View - System)



System Cooling	Fans: 4x 16K RPM Counter Rotating 8cm Fan(s)
	Liquid Cooling: Direct to Chip (D2C) Cold Plate (optional)
Power Supply	2x 3000W Redundant (1 + 1) Titanium Level (96%) power supplies
System BIOS	BIOS Type: AMI 32MB Flash ROM
Management	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!
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