

# BigTwin SuperServer SYS-220BT-HNC9R

2U BigTwin with 6 2.5" NVMe/SAS/SATA drives per node and HW RAID



More details here

## Key Applications

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

## Key Features

- Four **hot-pluggable** systems (nodes) in a 2U form factor. Each node supports the following;;
- Socket P+ (LGA 4189) support 3rd Gen Intel® Xeon® Scalable processors;
- Intel® C621A;
- 20 DIMM Slots (16 DIMM Slots + 4 Intel® Optane™ Persistent Memory Slots);
- 1 PCIe 4.0 x16 (LP) slot; Tool-less support  
Optional HW RAID Boot Controller via AOC-SMG3-2M2-B (NVMe Only)  
Internal PCIe 3.0 for 2 x4 M.2 NVMe/SATA support onboard;
- Network connectivity via AIOM (OCP 3.0 compliant);
- 6 Hot-swap 2.5" drive bays; 6 PCIe 4.0 NVMe/SAS/SATA 2.5" drives;
- 4 cooling fans per 2U enclosure, 16.5K RPM; Shared Cooling Design;
- 2600W Redundant Power Supplies Titanium Level (96%+); Shared Power Design;
- Built-in SAS3 Support via Broadcom SAS3908;



### 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 P+ (LGA-4189)  
3rd Gen Intel® Xeon® Scalable processors  
Up to 36C/72T; Up to 54MB Cache per CPU

### System Memory

Slot Count: 16 DIMM slots  
Max Memory (2DPC): Up to 4TB 3200MT/s ECC DDR4 RDIMM  
Supports Intel® Optane™ persistent memory 200 series

### Drive Bays Configuration

Default: Total 6 bays  
• 6 front hot-swap 2.5" PCIe 4.0 NVMe/SAS/SATA drive bays  
M.2: 2 M.2 PCIe 3.0 x4 NVMe/SATA slots (M-key 2280(default); VROC required for RAID)

### Expansion Slots

Default  
• 1 PCIe 4.0 x16 LP slot

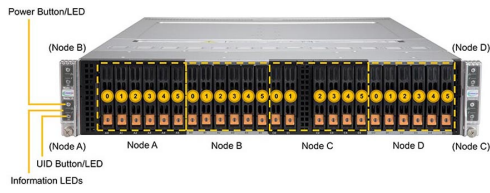
### On-Board Devices

SAS: SAS (12Gbps) via Broadcom® 3908; RAID 0/1/5/6/10/50 support  
Network Connectivity: Via AIOM

### Input / Output

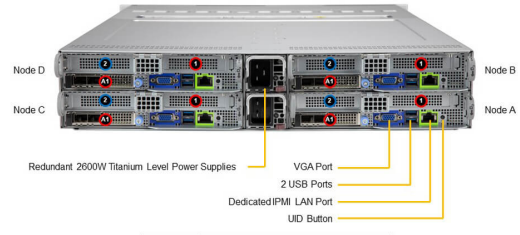
LAN: 1 RJ45 1 GbE Dedicated BMC LAN port  
USB: 2 USB 3.0 ports(rear)  
Video: 1 VGA port

(Front View – System)



Drive Bay (Node A-D)	Description
0-11	6x 2.5" Hot-Swap NVMe(CPU2)/SAS/SATA Drive Bays

(Rear View – System)



Slot (Node A-D)	Description
1	RAID Controller Card
2	PCI-E 4.0 x16 Low Profile Slot
A1	AIOM Slot PCIe 4.0 x16

System Cooling	Fans: Up to 4x 16.5K RPM Heavy Duty 8cm Fan(s) Air Shroud: 4 Air Shrouds
Power Supply	2x 2600W Redundant (1 + 1) Titanium Level (96%) power supplies
System BIOS	BIOS Type: AMI 32MB Flash ROM
Management	SuperCloud Composer® (SCC); 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	CPU: 7+1 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: -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)
Motherboard	<a href="#">Super X12DPT-B6</a>
Chassis	CSE-217BQ-000NP