

# 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,

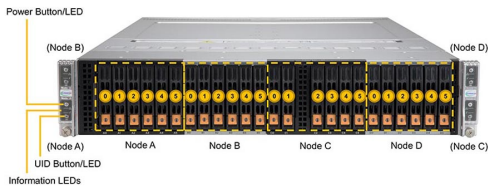
## Key Features

- 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;



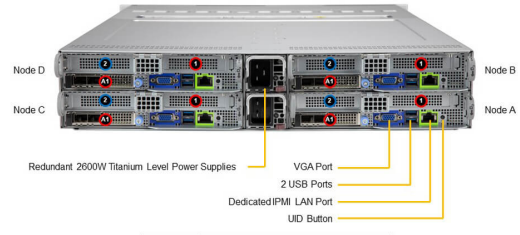
|                                 |  |
|---------------------------------|--|
| <b>Form Factor</b>              | 2U Rackmount<br>Enclosure: 449 x 88 x 730mm (17.68" x 3.47" x 28.75")<br>Package: 626 x 248 x 1150mm (24.65" x 9.76" x 45.28")   |
| <b>Processor</b>                | Dual Socket P+ (LGA-4189)<br>3rd Gen Intel® Xeon® Scalable processors<br>Up to 36C/72T; Up to 54MB Cache per CPU   |
| <b>System Memory</b>            | Slot Count: 16 DIMM slots<br>Max Memory (2DPC): Up to 4TB 3200MT/s ECC DDR4 RDIMM<br>Supports Intel® Optane™ persistent memory 200 series                                  |
| <b>Drive Bays Configuration</b> | Default: Total 6 bays<br>• 6 front hot-swap 2.5" PCIe 4.0 NVMe/SAS/SATA drive bays<br>M.2: 2 M.2 PCIe 3.0 x4 NVMe/SATA slots (M-key 2280(default); VROC required for RAID) |
| <b>Expansion Slots</b>          | Default<br>• 1 PCIe 4.0 x16 LP slot  |
| <b>On-Board Devices</b>         | SAS: SAS (12Gbps) via Broadcom® 3908; RAID 0/1/5/6/10/50 support<br>Network Connectivity: Via AIOM   |
| <b>Input / Output</b>           | LAN: 1 RJ45 1 GbE Dedicated BMC LAN port<br>USB: 2 USB 3.0 ports(rear)<br>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 PCI-E 4.0 x16        |

|                       |  |
|-----------------------|--|
| System Cooling        | Fans: Up to 4x 16.5K RPM Heavy Duty 8cm Fan(s)<br>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®; 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<br>Monitors for CPU Cores, Chipset Voltages, Memory.<br>FAN: Fans with tachometer monitoring<br>Pulse Width Modulated (PWM) fan connectors<br>Status monitor for speed control<br>Temperature: Monitoring for CPU and chassis environment |
| Dimensions and Weight | Weight: Gross Weight: 96.6 lbs (43.8 kg)<br>Net Weight: 66.1 lbs (30 kg)<br>Available Color: Black front & silver body   |
| Operating Environment | RoHS Compliant<br>Operating Temperature: 10°C to 35°C (50°F to 95°F)<br>Non-operating Temperature: -40°C to 60°C (-40°F to 140°F)<br>Operating Relative Humidity: 8% to 90% (Non-Condensing)<br>Non-operating Relative Humidity: 5% to 95% (Non-Condensing)                          |
| Motherboard           | <a href="#">Super X12DPT-B6</a>  |
| Chassis               | CSE-217BQ-000NP  |