# BigTwin SuperServer SYS-220BT-HNTR

## Key Applications

All-Flash NVMe Hyperconverged Infrastructure, Container-as-a-Service;
Application Accelerator, High-Performance File System, Diskless HPC Clusters,

## Key Features

- 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);
- 2 PCIe 4.0 x16 (LP) slot; Tool-less support; Internal PCIe 4.0 x8 for 2 M.2 NVMe/SATA support onboard; Optional NVMe Boot Controller via AOC-SMG3-2M2-B;
- Network connectivity via AIOM (OCP 3.0 compliant);
- 6 Hot-swap 2.5" drive bays; 6 PCIe 4.0 NVMe/SATA 2.5" drives;
- Liquid Cooling Support; 4 cooling fans per 2U enclosure, 16.5K RPM; Shared Cooling Design;
- 2600W Redundant Power Supplies Titanium Level (96%+); Shared Power Design;

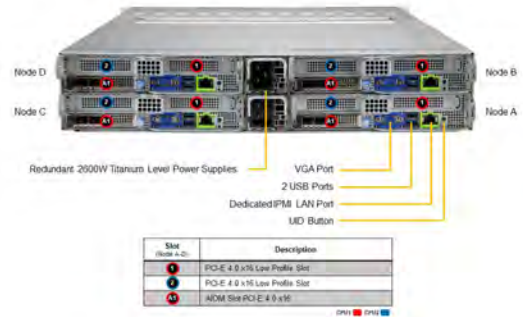| | |
|---|---|
| Form Factor | 2U Rackmount<br>Enclosure: 449 x 88 x 730mm (17.68" x 3.47" x 28.75")<br>Package: 626 x 248 x 1150mm (24.65" x 9.76" x 45.28") |
| Processor | 3rd Gen Intel® Xeon® Scalable processors<br>Dual Socket LGA 4189 (Socket P+) supported<br>TDP up to 205W;<br>(Certain CPUs with high TDP may be supported only under specific conditions. Please contact Supermicro Technical Support for additional information about specialized system optimization) |
| System Memory | 16 DIMM slots (16 DRAM + 4 PMem)<br>UP to 4TB: 16x 256GB DRAM<br>UP to 6TB: 8x 256GB DRAM and 8x 512GB Intel® Optane™ Persistent Memory |
| Drive Bays | 6x 2.5" hot-swap NVMe/SATA drive bays; 6x 2.5" NVMe hybrid;<br>Optional RAID support via Intel® PCH |
| Expansion Slots | 2 PCIe 4.0 x16 LP slot(s) |
| On-Board Devices | Chipset: Intel® C621A<br>Network Connectivity: Via AIOM<br>IPMI: Support for Intelligent Platform Management Interface v.2.0<br>        IPMI 2.0 with virtual media over LAN and KVM-over-LAN support |
| Input / Output | LAN: 1 RJ45 Dedicated BMC LAN port<br>USB: 2 USB 3.0 port(s) (2 rear)<br>Video: 1 VGA port(s)<br>Others: M.2 for boot drive only |

(Front View – System)


(Rear View – System)

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|---|---|
| **System Cooling** | 4x 16.5K RPM Heavy Duty 8cm Fan(s) |
| **Power Supply** | 1U 2600W Redundant Titanium PWS, 45(W) X 40(H) X 480(L)<br>Dimension (W x H x L): 45 x 40 x 480 mm |
| **System BIOS** | BIOS Type: AMI 32MB Flash ROM |
| **Management** | SuperDoctor® 5; Watch Dog; SUM; IPMI 2.0; KVM with dedicated LAN; SPM; Intel® Node Manager; SSM; SuperCloud Composer; Supemicro Out of Band (OOB) License (Included per Node) |
| **PC Health Monitoring** | FAN: Fans with tachometer monitoring<br>      Status monitor for speed control<br>      Pulse Width Modulated (PWM) fan connectors<br>Temperature: Monitoring for CPU and chassis environment<br>CPU: Monitors for CPU Cores, Chipset Voltages, Memory.<br>      7+1 Phase-switching voltage regulator |
| **Dimensions and Weight** | Height: 3.47" (88 mm)<br>Width: 17.68" (449 mm)<br>Depth: 28.75" (730 mm)<br>Gross Weight: 85 lbs (38.6 kg)<br>Net Weight: 54.5 lbs (24.7 kg)<br>Packaging: 9.76" (H) x 24.65" (W) x 45.28" (D)<br>Available Color: Black |
| **Operating Environment** | ROHS: RoHS Compliant<br>Operating Temperature: 10°C ~ 35°C (50°F ~ 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** | Super X12DPT-B6 |
| **Chassis** | CSE-217BQ-000NP |