

# BigTwin SuperServer SYS-220BT-DNTR

2U 2-node BigTwin with 12 2.5" NVMe/SATA drives per node



More details here

## Key Applications

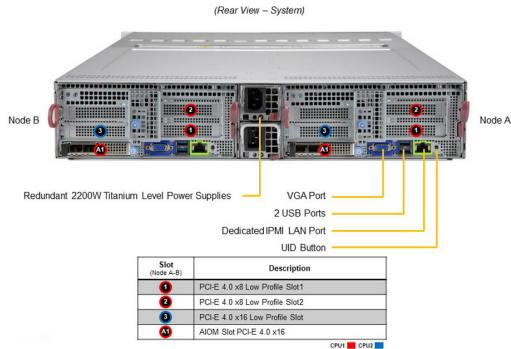
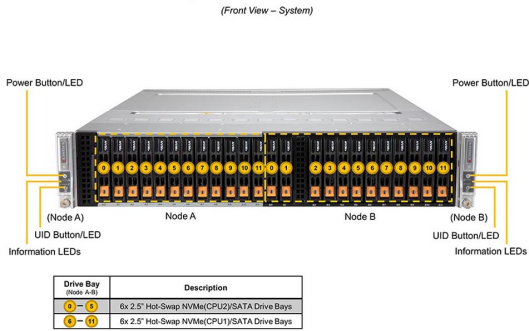
High-Performance File System, Diskless HPC Clusters, Scale Out All-Flash NVMe Storage, Big Data Analytics and AI,

## Key Features

- Two **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);
- Optional 2U Riser for Slot 1, CPU1 x16 PCIe 4.0 (RSC-P2R-6G4)  
1 PCIe 4.0 x16 (LP) slot; 2 PCIe 4.0 x8 (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);
- 12 Hot-swap 2.5" drive bays; 12 PCIe 4.0 NVMe/SATA 2.5" drives;
- 2 cooling fans per node, 16.5K RPM;
- 2200W Redundant Power Supplies Titanium Level (96%+); Shared Power Design;
- Balanced IO Performance (6 PCIe 4.0 NVMe drives per Socket);



|                          |                                                                                                                                                                                                                      |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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                | Dual Socket P+ (LGA-4189)<br>3rd Gen Intel® Xeon® Scalable processors<br>Up to 40C/80T; Up to 60MB Cache per CPU                                                                                                     |
| GPU                      | Max GPU Count: Up to 1 double-width or 1 single-width GPU<br>Supported GPU: NVIDIA PCIe: T4, A10<br>CPU-GPU Interconnect: PCIe 4.0 x16 CPU-to-GPU Interconnect                                                       |
| System Memory            | 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                                                                            |
| Drive Bays Configuration | Default: Total 12 bays <ul style="list-style-type: none"> <li>• 12 front hot-swap 2.5" PCIe 4.0 NVMe/SATA drive bays</li> </ul> M.2: 2 M.2 PCIe 3.0 x4 NVMe/SATA slots (M-key 2280(default); VROC required for RAID) |
| Expansion Slots          | Default <ul style="list-style-type: none"> <li>• 2 PCIe 4.0 x8 LP slots</li> <li>• 1 PCIe 4.0 x16 LP slot</li> </ul>                                                                                                 |
| On-Board Devices         | Chipset: Intel® C621A<br>Network Connectivity: Via AIOM                                                                                                                                                              |
| Input / Output           | LAN: 1 RJ45 1 GbE Dedicated BMC LAN port<br>USB: 2 USB 3.0 Type-A ports(Rear)<br>Video: 1 VGA port                                                                                                                   |



|                       |                                                                                                                                                                                                                                                                                      |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| System Cooling        | Fans: Up to 4x 16.5K RPM Heavy Duty 8cm Fan(s)<br>Air Shroud: 2 Air Shrouds                                                                                                                                                                                                          |
| Power Supply          | 2x 2200W 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<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 | Weight: Gross Weight: 80.7 lbs (36.6 kg)<br>Net Weight: 55.1 lbs (25 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-217BD-000NP                                                                                                                                                                                                                                                                      |