

# BigTwin SuperServer SYS-220BT-DNTR



More details here

## Key Applications

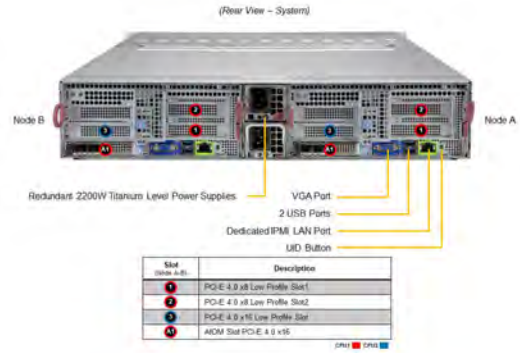
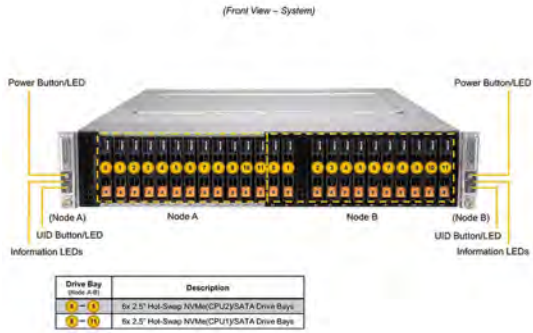
High-Performance File System, Diskless HPC Clusters, Scale Out All-Flash NVMe Storage, Big Data Analytics and AI,

## Key Features

- 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);
- Internal PCIe 4.0 x8 for 2 M.2 NVMe/SATA support onboard; 1 PCIe 4.0 x16 (LP) slot; 2 PCIe 4.0 x8 (LP) slot; Tool-less support; Optional NVMe Boot Controller via AOC-SMG3-2M2-B;
- 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; Liquid Cooling Support;
- 2200W Redundant Power Supplies Titanium Level (96%+); Shared Power Design;
- Balanced IO Performance (6 PCIe 4.0 NVMe drives per Socket);



<b>Form Factor</b>	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")
<b>Processor</b>	3rd Gen Intel® Xeon® Scalable processors Dual Socket LGA 4189 (Socket P+) supported TDP up to 270W; (Certain CPUs with high TDP may be supported only under specific conditions. Please contact Supermicro Technical Support for additional information about specialized system optimization)
<b>System Memory</b>	16 DIMM slots (16 DRAM + 4 PMem) UP to 4TB: 16x 256GB DRAM UP to 6TB: 8x 256GB DRAM and 8x 512GB Intel® Optane™ Persistent Memory
<b>Drive Bays</b>	12x 2.5" hot-swap NVMe/SATA drive bays (12x 2.5" NVMe hybrid)
<b>Expansion Slots</b>	2 PCIe 4.0 x8 LP slot(s) 1 PCIe 4.0 x16 LP slot(s)
<b>On-Board Devices</b>	Chipset: Intel® C621A Network Connectivity: Via AIOM IPMI: Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
<b>Input / Output</b>	LAN: 1 RJ45 Dedicated BMC LAN port USB: 2 USB 3.0 port(s) (2 rear) Video: 1 VGA port(s) Others: M.2 for boot drive only



System Cooling	4x 16.5K RPM Heavy Duty 8cm Fan(s)
Power Supply	2200W Redundant Power Supplies with PMBus 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; Supermicro Out of Band (OOB) License (Included per Node)
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. 7+1 Phase-switching voltage regulator
Dimensions and Weight	Height: 3.47" (88 mm) Width: 17.68" (449 mm) Depth: 28.75" (730 mm) Gross Weight: 85 lbs (38.6 kg) Net Weight: 54.5 lbs (24.7 kg) Packaging: 9.76" (H) x 24.65" (W) x 45.28" (D) Available Color: Black
Operating Environment	ROHS: RoHS Compliant Operating Temperature: 10°C ~ 35°C (50°F ~ 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-217BD-000NP