

BigTwin SuperServer SYS-220BT-HNC8R



More details here

Key Applications

Container-as-a-Service; Application Accelerator, Diskless HPC Clusters, All-Flash Hyperconverged Infrastructure,

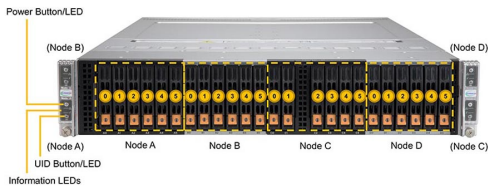
Key Features

- 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);
- Optional NVMe Boot Controller via AOC-SMG3-2M2-B; Internal PCIe 4.0 x8 for 2 M.2 NVMe/SATA support onboard; 2 PCIe 4.0 x16 (LP) slot; Tool-less support;
- 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;
- 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;
- Built-in SAS3 Support via Broadcom 3808; IT Mode;



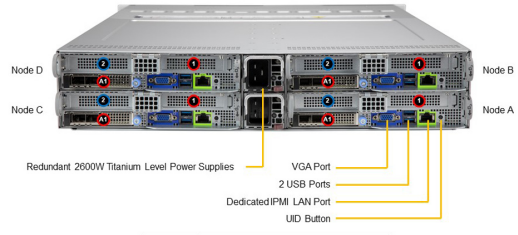
Form Factor	2U Rackmount Enclosure: 449 x 88 x 730mm (17.68" x 3.47" x 28.75") Package: 626 x 248 x 1150mm (24.65" x 9.76" x 45.28")
Processor	3rd Gen Intel® Xeon® Scalable processors Dual Socket LGA 4189 (Socket P+) supported TDP up to 205W; (Certain CPUs with high TDP may be supported only under specific conditions. Please contact Supermicro Technical Support for additional information about specialized system optimization)
System Memory	16 DIMM slots (16 DRAM + 4 PMem) UP to 4TB: 16x 256GB DRAM UP to 6TB: 8x 256GB DRAM and 8x 512GB Intel® Optane™ Persistent Memory
Drive Bays	6x 2.5" hot-swap NVMe/SATA/SAS drive bays; 6x 2.5" NVMe hybrid; Optional HBA support via SAS3808 Adapter
Expansion Slots	2 PCIe 4.0 x16 LP slot(s)
On-Board Devices	SAS: SAS3 (12Gbps) via Broadcom® 3808 (IT mode) 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
Input / Output	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

(Front View – System)



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

(Rear View – System)



Slot (Node A-D)	Description
	PCI-E 4.0 x16 Low Profile Slot
	PCI-E 4.0 x16 Low Profile Slot
	AIOM Slot PCI-E 4.0 x16

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) 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 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	Super X12DPT-B6
Chassis	CSE-217BQ-000NP