

BigTwin SuperServer SYS-620BT-HNC8R



Key Applications

Hyperconverged Infrastructure
Scale-Out File Storage
Container Storage

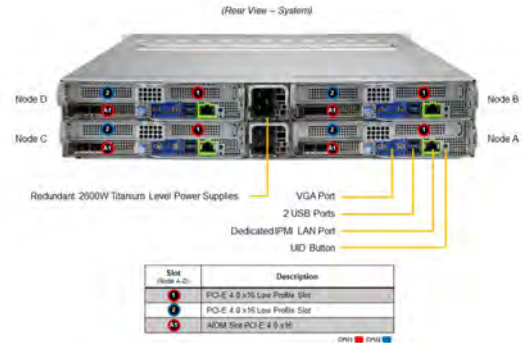
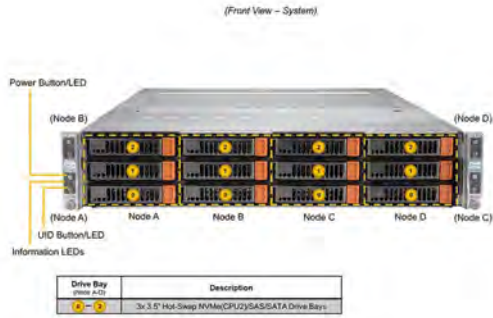
Key Features

- 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 PCI-E 4.0 x8 for 2 M.2 NVMe/SATA support onboard; 2 PCI-E 4.0 x16 (LP) slot; Tool-less support; Optional NVMe Boot Controller via AOC-SMG3-2M2-B;
- Network connectivity via AIOM (OCP 3.0 compliant);
- 3 Hot-swap 3.5" drive bays; 3 PCI-E 4.0 NVMe/SAS/SATA 3.5" drives;
- Liquid Cooling Support; 4 cooling fans per 2U enclosure, 14.9K RPM; Shared Cooling Design;
- 2600W Redundant Power Supplies Titanium Level (96%+); Shared Power Design;
- Built-in SAS3 Support via Broadcom 3808; IT Mode;

[More details here](#)



Form Factor	2U Rackmount Enclosure: 449 x 88 x 774mm (17.68" x 3.47" x 30.5") 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 185W;
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	3x 3.5" hot-swap NVMe/SATA/SAS drive bays; 3x 3.5" NVMe hybrid; 3x 2.5" NVMe hybrid; Optional HBA support via SAS3808 Adapter
Expansion Slots	Slot 1: PCI-E 4.0 x16 LP Slot 2: PCI-E 4.0 x16 LP Internal Slot: M.2
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



Cooling System	4x 14.9K 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: 30.5" (774 mm) Gross Weight: 114.66 lbs (52.01 kg) Net Weight: 87.13 lbs (39.52 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-827BQ-000NP