BigTwin SuperServer SYS-620BT-DNC8R
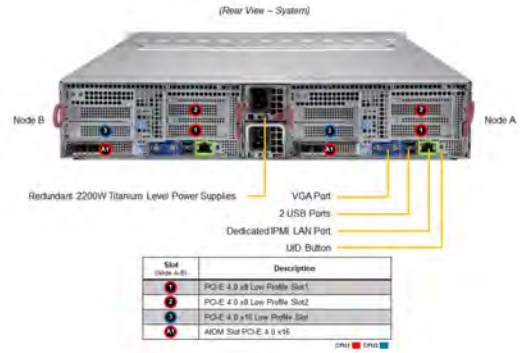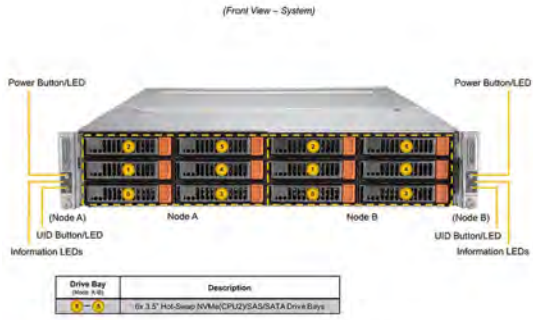
Key Applications

Hyperconverged Infrastructure, Scale-Out Object Storage, Back-up & Recovery,

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);
- 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; Internal PCIe 4.0 x8 for 2 M.2 NVMe/SATA support onboard;
- Network connectivity via AIOM (OCP 3.0 compliant);
- 6 Hot-swap 3.5" drive bays; 6 PCIe 4.0 NVMe/SAS/SATA 3.5" drives;
- Liquid Cooling Support; 2 cooling fans per node, 14.9K RPM;
- 2200W 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 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 250W; (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 3.5" hot-swap NVMe/SATA/SAS drive bays (6x 2.5" NVMe hybrid; 6x 3.5" NVMe hybrid)
Expansion Slots	2 PCIe 4.0 x8 LP slot(s) 1 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

System Cooling	4x 14.9K 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: 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-827BD-000NP