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 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	Dual Socket P+ (LGA-4189) 3rd Gen Intel® Xeon® Scalable processors Up to 40C/80T; Up to 60MB Cache per CPU
GPU	Max GPU Count: Up to 1 double-width or 1 single-width GPU Supported GPU: NVIDIA PCIe: A10, T4 CPU-GPU Interconnect: PCIe 4.0 x16 CPU-to-GPU Interconnect
System Memory	Slot Count: 16 DIMM slots Max Memory (2DPC): Up to 4TB 3200MT/s ECC DDR4 RDIMM Supports Intel® Optane™ persistent memory 200 series
Drive Bays Configuration	Default: Total 12 bays • 12 front hot-swap 2.5" PCIe 4.0 NVMe/SATA drive bays M.2: 2 M.2 PCIe 3.0 x4 NVMe/SATA slots (M-key 2280(default); VROC required for RAID)
Expansion Slots	Default • 2 PCIe 4.0 x8 LP slots • 1 PCIe 4.0 x16 LP slot
On-Board Devices	Via AIOM
Input / Output	LAN: 1 RJ45 1 GbE Dedicated BMC LAN port USB: 2 USB 3.0 Type-A ports(Rear) Video: 1 VGA port

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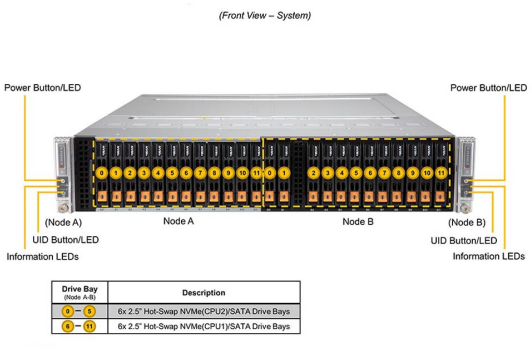

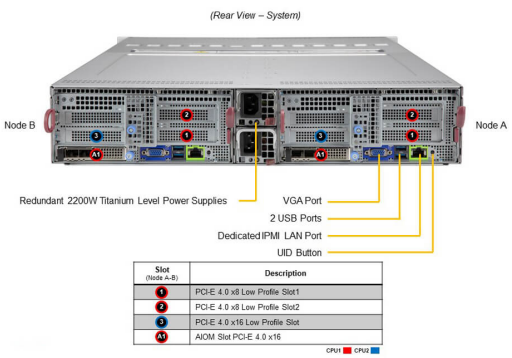

System Cooling	Fans: Up to 4x 16.5K RPM Heavy Duty 8cm Fan(s) Air Shroud: 2 Air Shrouds
Power Supply	2x 2200W Redundant (1 + 1) Titanium Level (96%) power supplies
System BIOS	BIOS Type: AMI 32MB Flash ROM
Management	SuperCloud Composer®; Supermicro Server Manager (SSM); Supermicro Update Manager (SUM); Supermicro SuperDoctor® 5 (SD5); Super Diagnostics Offline (SDO); Supermicro Thin-Agent Service (TAS); SuperServer Automation Assistant (SAA) New!
PC Health Monitoring	CPU: 7+1 Phase-switching voltage regulator Monitors for CPU Cores, Chipset Voltages, Memory. FAN: Fans with tachometer monitoring Pulse Width Modulated (PWM) fan connectors Status monitor for speed control Temperature: Monitoring for CPU and chassis environment
Dimensions and Weight	Weight: Gross Weight: 80.7 lbs (36.6 kg) Net Weight: 55.1 lbs (25 kg) Available Color: Black front & silver body
Operating Environment	RoHS Compliant Operating Temperature: 10°C to 35°C (50°F to 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-217BD-000NP**

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