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,



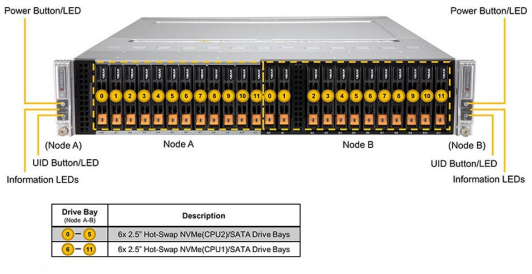
Key Features

- 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);
- Two hot-pluggable systems (nodes) in a 2U form factor. Each node supports the following:;

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(s) Supported GPU: NVIDIA PCIe: T4, A10 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 bay(s) • 12 front hot-swap 2.5" PCIe 4.0 NVMe/SATA drive bay(s) M.2: 2 M.2 PCIe 3.0 x4 NVMe/SATA slot(s) (M-key 2280(default); VROC required for RAID)
Expansion Slots	Default • 2 PCIe 4.0 x8 LP slot(s) • 1 PCIe 4.0 x16 LP slot(s)
On-Board Devices	Chipset: Intel® C621A Network Connectivity: Via AIOM
Input / Output	LAN: 1 RJ45 1 GbE Dedicated BMC LAN port(s) USB: 2 USB 3.0 Type-A port(s) (Rear) Video: 1 VGA port(s)

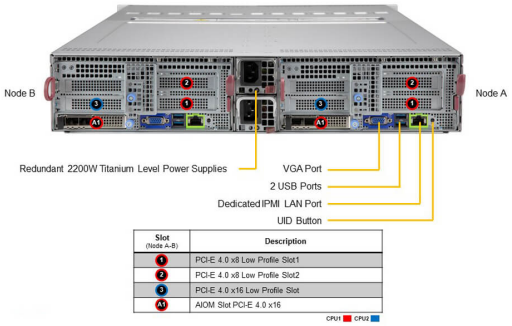
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(Front View – System)



Drive Bay (Node A-B)	Description
0 – 5	6x 2.5" Hot-Swap NVMe(CPU2)/SATA Drive Bays
6 – 11	6x 2.5" Hot-Swap NVMe(CPU1)/SATA Drive Bays

(Rear View – System)



Slot (Node A-B)	Description
1	PCI-E 4.0 x8 Low Profile Slot1
2	PCI-E 4.0 x8 Low Profile Slot2
3	PCI-E 4.0 x16 Low Profile Slot
AIOM	AIOM Slot PCI-E 4.0 x16

CPU1 CPU2

System Cooling	Fans: 4x 16.5K RPM Heavy Duty 8cm Fan(s)
Power Supply	1x 2200W Redundant Titanium Level (96%) power supply
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	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	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 ~ 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-217BD-000NP**

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