

BigTwin SuperServer SYS-221BT-DNTR



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 E (LGA 4677) support 4th Gen Intel® Xeon® Scalable processors;
- Intel® C741;
- Up to 16 DIMMs ECC DDR5 Slots;
- 1 PCIe 5.0 x16 (LP) slot; 2 PCIe 5.0 x8 (LP) slot; Tool-less support; Optional M.2 NVMe Boot Controller via SCC-A2NM2241G3-B1; Internal PCIe 4.0 x8 for 2 M.2 NVMe support onboard;
- Network connectivity via AIOM (OCP 3.0 compliant);
- 12 hot-Swap 2.5" drive bays (2x PCIe 5.0 NVMe and 10x PCIe 4.0 NVMe/SATA);
- Liquid Cooling Support; 4 cooling fans per 2U enclosure, 16.5K RPM; Shared Cooling Design;
- 2200W Redundant Power Supplies Titanium Level (96%+); Shared Power Design;



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

4th Gen Intel® Xeon® Scalable processors
Dual Socket LGA 4677 (Socket E) supported
Intel Xeon CPU Max Series with high bandwidth memory (HBM)
(Supports up to 350W TDP CPUs (Aircooled), Supports up to 350W TDP CPUs (Liquid Cooled))

Drive Bays

12x 2.5" hot-swap NVMe/SATA drive bays;
Optional RAID support via Intel® PCH

Expansion Slots

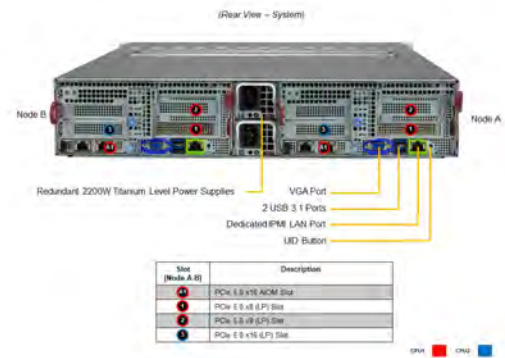
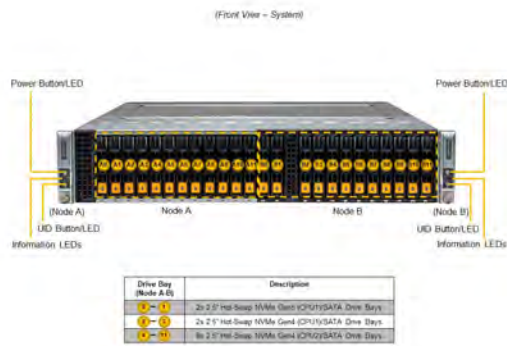
2 PCIe 5.0 x8 LP slot(s)
1 PCIe 5.0 x16 LP slot(s)

On-Board Devices

Chipset: Intel® C741
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 3.1 port(s) (2 rear)
Video: 1 VGA port(s)
Others: 2x M.2 for boot drive or caching
M.2 form factor: NVMe double-sided 22x110mm
Note: Enterprise-grade M.2 only for caching application



System Cooling	4x 16.5K RPM Heavy Duty 8cm Fan(s) Liquid Cooling: Direct to Chip (D2C) Cold Plate (optional)
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; 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. 8+4 Phase-switching voltage regulator
Dimensions and Weight	Height: 3.47" (88 mm) Width: 17.68" (449 mm) Depth: 28.75" (730 mm) Gross Weight: 80.7 lbs (36.6 kg) Net Weight: 55.1 lbs (25 kg) Packaging: 9.76" (H) x 24.65" (W) x 45.28" (D) Available Color: Black front & silver body
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 X13DET-B
Chassis	CSE-217BD2-R2K22P