

BigTwin SuperServer SYS-222BT-DNR

2U 2-Node BigTwin with 12 hot-swap 2.5" NVMe drives per node



Key Applications

High-Performance File System, Diskless HPC Clusters, Scale Out All-Flash NVMe Storage, Big Data Analytics and AI,

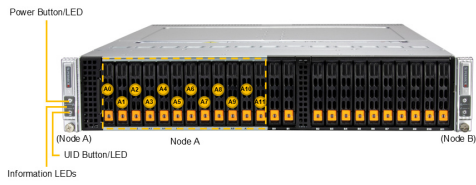
Key Features

- Two **hot-pluggable** systems (nodes) in a 2U form factor. Each node supports the following;;
- Dual Socket E2 Intel® Xeon® 6700/6500 series processors with P-cores or 6700 series processors with E-cores up to 300W with air cooling or 350W with liquid cooling
Single CPU configurations supported while maintaining all expansion slot functionality; see Option A for drive support limitations;
- Up to 16 DIMMs supporting up to 4TB DDR5-6400 in 1DPC;
- Flexible networking with OCP 3.0 AIOM slot;
- Up to 2 PCIe 5.0 x8 LP + 1 PCIe 5.0 x16 LP slots
Internal PCIe 5.0 for 2 NVMe M.2 support onboard
Optional 4 NVMe M.2 support onboard with built-in HW RAID1 via SCC-A2NM2241GH-B1;
- Up to 12 front hot-swap 2.5" PCIe 5.0 NVMe drive bays;



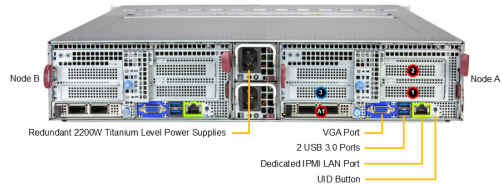
Form Factor	2U Rackmount Enclosure: 449 x 88 x 730mm (17.68" x 3.47" x 28.75") Package: 626 x 248 x 1150mm (24.65" x 9.76" x 45.28")
Processor	Dual Socket E2 (LGA-4710) Intel® Xeon® 6700/6500 series processors with P-cores or 6700 series processors with E-cores P-cores: Up to 86C/172T; Up to 336MB Cache per CPU E-cores: Up to 144C/144T; Up to 108MB Cache per CPU
GPU	Up to 1 double-width or 1 single-width GPU
System Memory	Slot Count: 16 DIMM slots Max Memory (1DPC): Up to 4TB 6400MT/s ECC DDR5 RDIMM
Drive Bays Configuration	Default: Total 12 bays • 12 front hot-swap 2.5" PCIe 5.0 NVMe drive bays M.2: 2 M.2 PCIe 5.0 x4 NVMe slots (M-key 22110(default); VROC required for RAID)
Expansion Slots	Default • 2 PCIe 5.0 x8 LP slots • 1 PCIe 5.0 x16 LP slot • 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible) Option A • 1 PCIe 4.0 x16 FHFL slot • 1 PCIe 5.0 x16 LP slot
On-Board Devices	Via AIOM
Input / Output	LAN: 1 RJ45 1 GbE Dedicated BMC LAN port USB: 2 USB 3.0 Gen2 Type-A ports(Rear) Video: 1 VGA port

(Front View – System)



Drive Bay (Node A/B)	Description
1 - 6	6 Hot-Swap 2.5" NVMe Drive Bays (CPU1)
7 - 12	6 Hot-Swap 2.5" NVMe Drive Bays (CPU2)

(Rear View – System)



Slot Description	
1, 2	PCIe 5.0 x8 LP
3, 4	PCIe 5.0 x16 LP
5, 6	PCIe 5.0 x16 ADDM

System Cooling	Fans: Up to 4x 16.5K RPM Heavy Duty 80x80x38mm Fan(s) Up to 4x 16k RPM Counter Rotating 80x80x56mm Fan(s) (optional) Air Shroud: 2 Air Shrouds Liquid Cooling: Direct to Chip (D2C) Cold Plate (optional)
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); Super Diagnostics Offline (SDO); Supermicro Thin-Agent Service (TAS); SuperServer Automation Assistant (SAA) New!
PC Health Monitoring	CPU: 8+4 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: -30°C to 60°C (-22°F to 140°F) Operating Relative Humidity: 8% to 80% (non-condensing) Non-operating Relative Humidity: 8% to 90% (non-condensing)
Motherboard	Super X14DBT-B
Chassis	CSE-217BD2-R2K22P