

BigTwin SuperServer SYS-221BT-HNR

2U 4-Node BigTwin with 6 hot-swap 2.5" NVMe drives per node



More details here

Key Applications

All-Flash NVMe Hyperconverged Infrastructure, Container-as-a-Service; Application Accelerator, High-Performance File System, Diskless HPC Clusters,

Key Features

- Four **hot-pluggable** systems (nodes) in a 2U form factor. Each node supports the following:;
- Socket E (LGA 4677) support 5th/4th Gen Intel® Xeon® Scalable processors;
- Intel® C741;
- 16 DIMM Slots supporting up to 4TB of memory; ECC RDIMMs up to DDR5-5600;
- 2 PCIe 5.0 x16 (LP) slot; Tool-less support Internal PCIe 4.0 for 2 x4 M.2 NVMe support onboard Optional M.2 (22x80) HW RAID1 NVMe Boot Controller via SCC-A2NM2241G3-B1;
- Network connectivity via AIOM (OCP 3.0 compliant);
- 6 hot-swap PCIe 5.0 NVMe 2.5" drives; All Flash NVMe;
- Liquid Cooling Support 4 cooling fans per 2U enclosure, 16K RPM; Shared Cooling Design, Counter-Rotating;
- 3000W Redundant Power Supplies Titanium Level (96%+); Shared Power



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 E (LGA-4677)
5th Gen Intel® Xeon® / 4th Gen Intel® Xeon® Scalable processors
Supports Intel Xeon CPU Max Series with high bandwidth memory (HBM)
Up to 64C/128T; Up to 320MB Cache per CPU

System Memory

Slot Count: 16 DIMM slots
Max Memory (1DPC): Up to 4TB 5600MT/s ECC DDR5 RDIMM

Drive Bays Configuration

Default: Total 6 bays

- 6 front hot-swap 2.5" PCIe 5.0 NVMe drive bays

M.2: 2 M.2 PCIe 4.0 x4 NVMe slots (M-key 22110(default); VROC required for RAID)

Expansion Slots

Default

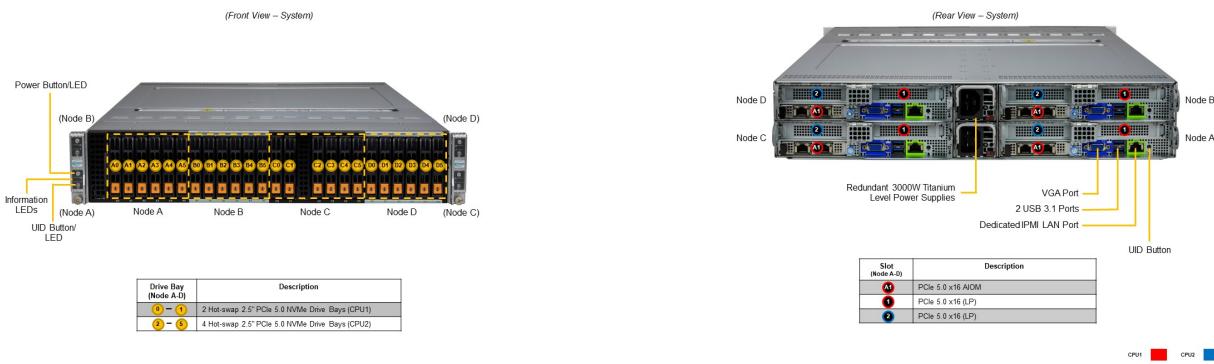
- 2 PCIe 5.0 x16 LP slots
- 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible)

On-Board Devices

Chipset: Intel® C741
Network Connectivity: 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



System Cooling

Fans: Up to 4x 16K RPM Counter Rotating 8cm Fan(s)
 Air Shroud: 4 Air Shrouds
 Liquid Cooling: Direct to Chip (D2C) Cold Plate (optional)

Power Supply

2x 3000W 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

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

Weight: Gross Weight: 96.6 lbs (43.8 kg)
 Net Weight: 66.1 lbs (30 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 X13DET-B](#)

Chassis

[CSE-217BQ2-R3K04P](#)