

## **BigTwin SuperServer SYS-221BT-HNC8R**

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



Key Applications

Container-as-a-Service; Application Accelerator, Diskless HPC Clusters, All-Flash Hyperconverged Infrastructure,

## **Key Features**

- 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);
- Built-in SAS3 Support via Broadcom 3808; IT Mode
   6 hot-swap 2.5" drive bays (2x PCIe 5.0 NVMe/SAS and 4x PCIe 4.0 NVMe/SAS);
- 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

FormeFactor 2U Rackmount

• Four hot-pluggable systems (nodes ክፍ ልሚሆና ተጠብ ያልተመረተ ያለም ነው ተጠብ ያልተመረተ ያለም ነው የተመረተ ያለም ነው የተ

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 bay(s)

2 front hot-swap 2.5" PCIe 5.0 NVMe/SAS drive bay(s)
4 front hot-swap 2.5" PCIe 4.0 NVMe/SAS drive bay(s)

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

Expansion Slots Default

• 2 PCIe 5.0 x16 LP slot(s)

On-Board Devices SAS: SAS (12Gbps) via Broadcom® 3808; (IT mode)

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

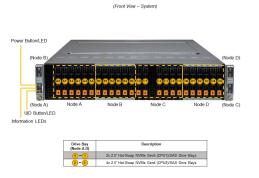
Input / Output LAN: 1 RJ45 1 GbE Dedicated BMC LAN port(s)

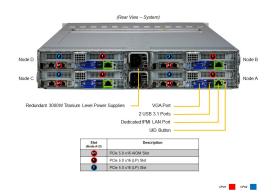
USB: 2 USB 3.0 Gen2 Type-A port(s) (Rear)

Video: 1 VGA port(s)









System Cooling	Fans: 4x 16K RPM Counter Rotating 8cm Fan(s) Liquid Cooling: Direct to Chip (D2C) Cold Plate (optional)
	Equit cooling. Direct to emp (BZe) cour rate (optional)
Power Supply	3000W Redundant Titanium Level power supplies
System BIOS	BIOS Type: AMI 32MB Flash ROM
Management	Redfish API; Supermicro Server Manager (SSM); Supermicro Power Manager (SPM); Supermicro Update Manager (SUM); SuperDoctor® 5; Super Diagnostics Offline; KVM with dedicated LAN; IPMI 2.0
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 ~ 35°C (50°F ~ 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