

BigTwin SuperServer SYS-222BT-HNR-LCC

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

[./files_SYS/images/System/SYS-222BT-HNR-LCC_main.jpg](#)

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:

- Dual Socket E2 (LGA-4710) Intel® Xeon® 6700/6500 series processors with P-cores or 6700 series processors with E-cores up to 350W with liquid cooling
- Up to 16 DIMMs supporting up to 4TB DDR5-6400 in 1DPC
- Flexible networking with up to 1 OCP 3.0 compatible AIOM slots
- Up to 2 PCIe 5.0 x16 LP + 1 PCIe 5.0 x16 AIOM slots
- Up to 6 front hot-swap 2.5" NVMe drive bays
- 2 Redundant 3600W Titanium Level power supplies
- 2U Rackmount chassis with 28.75" (730mm) depth

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Specifications

Product SKUs SuperServer SYS-222BT-HNR-LCC		Chassis Form Factor 2U Rackmount	
Motherboard Super X14DBT-B (https://www.supermicro.com/en/products/motherboard/X14DBT-B)		Model CSE-217BQ2-R3K60P	
Processor (per Node)		Dimensions and Weight	
CPU	Dual Socket E2 (LGA-4710)	Height	3.47" (88 mm)
	Intel® Xeon® 6700/6500 series processors with 8 cores or 6700 series processors with E-cores (https://www.supermicro.com/en/support/resources/cpu-intel-xeon-6700-6500)	Width	17.68" (449 mm)
Core Count	P-cores: Up to 86C/172T; Up to 336MB Cache CPU	Depth	28.75" (730 mm)
	E-cores: Up to 144C/144T; Up to 108MB Cache CPU	Package	9.76" (H) x 24.65" (W) x 45.28" (D)
Note	Supports up to 350W TDP CPUs (Liquid Cooling)	Weight	Gross Weight: 96.6 lbs (43.8 kg) Net Weight: 66.1 lbs (30 kg)
System Memory (per Node)		Available Color	Black front & silver body
Memory	Slot Count: 16 DIMM slots	Front Panel	
	Max Memory (1DPC): Up to 4TB 6400MT/s ECC RDIMM View Memory Options	LED HDD activity LED Network activity LEDs Power status LED Universal Information (UID) LED	
Memory Voltage	1.1V	Buttons Power On/Off button UID button	
On-Board Devices (per Node)		Expansion Slots (per Node)	
Chipset	System on Chip	PCI-Express (PCIe) Configuration	Default 1 PCIe 5.0 x16 LP slot 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible) Option A 2 PCIe 5.0 x16 LP slots 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible) View AOC Options
Network Connectivity	Via AIOM View AIOM Options (https://www.supermicro.com/resources/aoc/aiom?show=SELECT&type=BigTwin) View AOC Options	Drive Bays / Storage (per Node)	
Input / Output (per Node)		Drive Bays Configuration	Default: Total 6 bays 6 front hot-swap 2.5" PCIe 5.0 NVMe drive bays View NVMe Options
LAN	1 RJ45 1 GbE Dedicated BMC LAN port	M.2	2 M.2 PCIe 5.0 x4 NVMe slots (M-key 22110(default); VROC required for RAID) View M.2 Options (https://www.supermicro.com/ports/resources/m2ssd?SystemID=90571&ProductName=SYS-222BT-HNR-LCC)
USB	2 USB 3.0 Gen2 Type-A ports(Rear)		
Video	1 VGA port		
System BIOS			
BIOS Type	AMI 32MB Flash ROM		
Management Software		System Cooling	
SuperCloud Composer® (https://www.supermicro.com/en/solutions/management-software/supercloud-composer), Supermicro Server Manager (SSM) (https://www.supermicro.com/en/solutions/management-software/supermicro-server-manager), Super Diagnostics Offline (SDO) (https://www.supermicro.com/en/solutions/management-software/super-diagnostics-offline), Supermicro Thin-Agent Service (TAS) (https://www.supermicro.com/en/solutions/management-software/thin-agent-service), SuperServer Automation Assistant (SAA) New (https://www.supermicro.com/en/solutions/management-software/superserver-automation-assistant), ACPI/APM Power Management		Fans 4x 16K RPM Counter Rotating 80x80x56mm Fan(s) Air Shroud 4 Air Shrouds Liquid Cooling Direct to Chip (D2C) Cold Plate	
Power configurations		Power Supply	
Security			

Hardware	Trusted Platform Module (TPM) 2.0 Silicon Root of Trust (RoT) – NIST 800-193 Compliant	2x 3600W
Features	Cryptographically Signed Firmware Secure Boot Secure Firmware Updates Automatic Firmware Recovery Supply Chain Security: Remote Attestation Runtime BMC Protections System Lockdown	
PC Health Monitoring		Dimension (WxHxL)
FAN	Fans with tachometer monitoring Status monitor for speed control Pulse Width Modulated (PWM) fan connectors	
Temperature CPU	Monitoring for CPU and chassis environment Monitors for CPU Cores, Chipset Voltages, Mer	Input
		+12V
		12V SB
		Output Type
Operating Environment		
ROHS	RoHS Compliant	
Environmental Spec.	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 95% (non-condensing)	

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Parts List

Certain products may not be available in your region
