

BigTwin SuperServer SYS-222BT-HER

2U 4-Node BigTwin with 8 hot-swap E3.S 1T NVMe drives per node ;

(./files_SYS/images/System/SYS-222BT-HER_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 Intel® Xeon® 6700/6500 series processors with P-cores or 6700 series processors with E-cores up to 250W 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 x16 LP slots
- Internal PCIe 5.0 for 2x NVMe M.2 support onboard
- Optional 4x NVMe M.2 support onboard with built-in HW RAID1 via SCC-A2NM2241GH-B1
- Up to 8 front hot-swap E3.S 1T PCIe 5.0 NVMe drive bays

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Specifications

Product SKUs SuperServer SYS-222BT-HER		Chassis Form Factor 2U Rackmount	
Motherboard Super X14DBT-B (https://www.supermicro.com/en/products/motherboard/X14DBT-B)		Model CSE-217BE3Q-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 or 16 cores or 6700 series processors with E-cores	Width	17.68" (449 mm)
Core Count	P-cores: Up to 86C/172T; Up to 336MB Cache per CPU	Depth	28.75" (730 mm)
	E-cores: Up to 144C/144T; Up to 108MB Cache per CPU	Package	9.76" (H) x 24.65" (W) x 45.28" (D)
Note	Supports up to 300W TDP CPUs (Air Cooled)*	Weight	Gross Weight: 96.6 lbs (43.8 kg)
	Supports up to 350W TDP CPUs (Liquid Cooled)		Net Weight: 66.1 lbs (30 kg)
System Memory (per Node)	*Air Cooled CPUs with TDP over 205W only supported under specific conditions. Contact Supermicro representative for details.	Available Color	Black front & silver body
		Front Panel	
Memory	Slot Count: 16 DIMM slots	LED	HDD activity LED
	Max Memory (1DPC): Up to 4TB 6400MT/s ECC RDIMM		Network activity LEDs
Memory Voltage	1.1V		Power status LED
	View Memory Options	Buttons	Universal Information (UID) LED
On-Board Devices (per Node)		Expansion Slots (per Node)	
Chipset	System on Chip	PCI-Express (PCIe)	Default
Network Connectivity	Via AIOM	Configuration	2 PCIe 5.0 x16 LP slots
(https://www.supermicro.com/resources/aoc/aiom?show=SELECT&type=BigTwin)			1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible)
			View AOC Options
View AOC Options		Drive Bays / Storage (per Node)	
		Drive Bays Configuration	Default: Total 8 bays
			8 front hot-swap E3.S 1T PCIe 5.0 NVMe drive bays
			View NVMe Options
		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/support/resources/m2ssd?SystemID=90153&ProductName=SYS-222BT-HER)	
Input / Output (per Node)		System Cooling	
LAN	1 RJ45 1 GbE Dedicated BMC LAN port	Fans	4x 16K RPM Counter Rotating 80x80x56mm Fan(s)
USB	2 USB 3.0 Gen2 Type-A ports(Rear)	Air Shroud	4 Air Shrouds
Video	1 VGA port	Liquid Cooling	Direct to Chip (D2C) Cold Plate (optional)
System BIOS		Power Supply	
BIOS Type	AMI 32MB Flash ROM		
Management			

Software	SuperCloud Composer® . (https://www.supermicro.com/en/solutions/gement-software/supercloud-composer) , Supermicro Server Manager (SSM) . (https://www.supermicro.com/en/solutions/gement-software/supermicro-server-manag Super Diagnostics Offline (SDO) . (https://www.supermicro.com/en/solutions/gement-software/super-diagnostics-offline) , Supermicro Thin-Agent Service (TAS) . (https://www.supermicro.com/en/solutions/gement-software/thin-agent-service) , SuperServer Automation Assistant (SAA) New . (https://www.supermicro.com/en/solutions/gement-software/superserver-automation-assistant)	2x 3600W
Power configurations	ACPI/APM Power Management	2x 3600W Redundant (1 + 1) Titanium Level (96%) power supplies
Security Hardware		
Security Hardware	Trusted Platform Module (TPM) 2.0 Silicon Root of Trust (RoT) – NIST 800-193 Compliant	
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		
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, Mer 3.4 Phase switching voltage regulation	
		Dimension (WxHxL) 45 x 40 x 480 mm
		Input 3600W: 0240Vdc / 50-60Hz (for CQC only) 1400W: 100-127Vac / 50-60Hz 3000W: 200-207.9Vac / 50-60Hz 3100W: 208-219.9Vac / 50-60Hz 3250W: 220-229.9Vac / 50-60Hz 3450W: 230-237.9Vac / 50-60Hz 3600W: 238-240Vac / 50-60Hz Max: 112A / Min: 0A (100Vac-127Vac) Max: 240A / Min: 0A (200Vac-207.9Vac) Max: 248A / Min: 0A (208Vac-219.9Vac) Max: 260A / Min: 0A (220Vac-229.9Vac) Max: 276A / Min: 0A (230Vac-237.9Vac) Max: 288A / Min: 0A (238Vac-240Vac) Max: 4.5A / Min: 0A
		+12V
		12V SB
		Output Type Backplanes (gold finger)

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[SCHEDULE ACCESS \(HTTPS://WWW.SUPERMICRO.COM/JUMPSTART/SCHEDULE/SKU/SYS-222BT-HER\)](https://www.supermicro.com/JumpStart/Schedule/SKU/SYS-222BT-HER)

Parts List

Certain products may not be available in your region
