



# BigTwin SuperServer SYS-222BT-HNR-LCC

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

## Key Applications

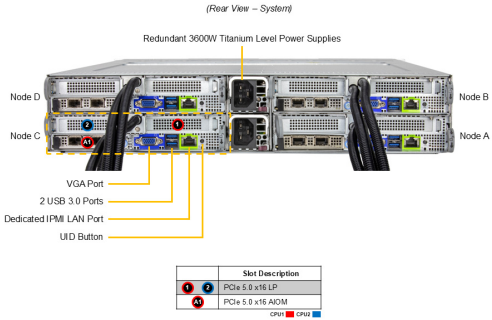
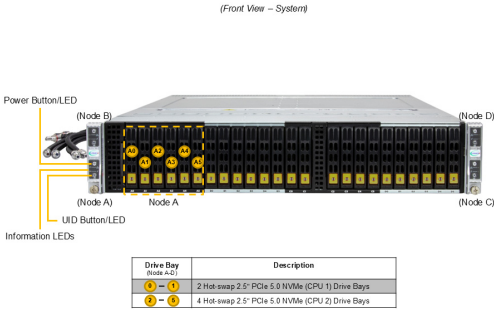
All-Flash NVMe Hyperconverged Infrastructure, Container-as-a-Service;  
Application Accelerator, High-Performance File System, Diskless HPC Clusters,

## 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;



|                          |                                                                                                                                                                                                                                                                                           |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Form Factor              | 2U Rackmount<br>Enclosure: 449 x 88 x 730mm (17.68" x 3.47" x 28.75")<br>Package: 626 x 248 x 1150mm (24.65" x 9.76" x 45.28")                                                                                                                                                            |
| Processor                | Dual Socket E2 (LGA-4710)<br>Intel® Xeon® 6700/6500 series processors with P-cores or 6700 series processors with E-cores<br>P-cores: Up to 86C/172T; Up to 336MB Cache per CPU<br>E-cores: Up to 144C/144T; Up to 108MB Cache per CPU                                                    |
| System Memory            | Slot Count: 16 DIMM slots<br>Max Memory (1DPC): Up to 4TB 6400MT/s ECC DDR5 RDIMM                                                                                                                                                                                                         |
| Drive Bays Configuration | Default: Total 6 bays <ul style="list-style-type: none"> <li>• 6 front hot-swap 2.5" PCIe 5.0 NVMe drive bays</li> </ul> M.2: 2 M.2 PCIe 5.0 x4 NVMe slots (M-key 22110(default); VROC required for RAID)                                                                                 |
| Expansion Slots          | Default <ul style="list-style-type: none"> <li>• 1 PCIe 5.0 x16 LP slot</li> <li>• 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible)</li> </ul> Option A <ul style="list-style-type: none"> <li>• 2 PCIe 5.0 x16 LP slots</li> <li>• 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible)</li> </ul> |
| On-Board Devices         | Chipset: System on Chip<br>Network Connectivity: Via AIOM                                                                                                                                                                                                                                 |
| Input / Output           | LAN: 1 RJ45 1 GbE Dedicated BMC LAN port<br>USB: 2 USB 3.0 Gen2 Type-A ports(Rear)<br>Video: 1 VGA port                                                                                                                                                                                   |



|                       |                                                                                                                                                                                                                                                                                      |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| System Cooling        | Fans: Up to 4x 16K RPM Counter Rotating 80x80x56mm Fan(s)<br>Air Shroud: 4 Air Shrouds<br>Liquid Cooling: Direct to Chip (D2C) Cold Plate                                                                                                                                            |
| Power Supply          | 2x 3600W 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<br>Monitors for CPU Cores, Chipset Voltages, Memory.<br>FAN: Fans with tachometer monitoring<br>Pulse Width Modulated (PWM) fan connectors<br>Status monitor for speed control<br>Temperature: Monitoring for CPU and chassis environment |
| Dimensions and Weight | Weight: Gross Weight: 96.6 lbs (43.8 kg)<br>Net Weight: 66.1 lbs (30 kg)<br>Available Color: Black front & silver body                                                                                                                                                               |
| Operating Environment | RoHS Compliant<br>Operating Temperature: 10°C to 35°C (50°F to 95°F)<br>Non-operating Temperature: -30°C to 60°C (-22°F to 140°F)<br>Operating Relative Humidity: 8% to 80% (non-condensing)<br>Non-operating Relative Humidity: 8% to 90% (non-condensing)                          |
| Motherboard           | <a href="#">Super X14DBT-B</a>                                                                                                                                                                                                                                                       |
| Chassis               | CSE-217BQ2-R3K60P                                                                                                                                                                                                                                                                    |