

# BigTwin SuperServer SYS-622BT-HNC8R

2U 4-Node BigTwin with 3 hot-swap 3.5" NVMe/SAS/SATA drives per node



## Key Applications

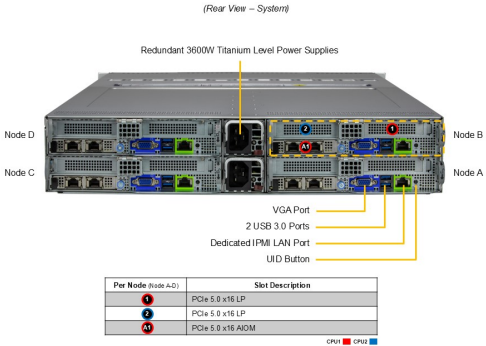
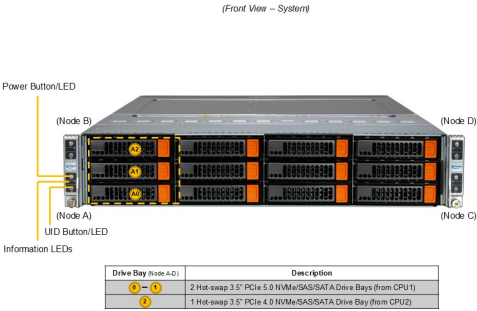
Hyperconverged Infrastructure, Scale-Out File Storage, Back-up & Recovery,

## 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 processors with E-cores up to 150W 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; Tool-less support  
Internal PCIe 5.0 for 2 NVMe M.2 support onboard  
Optional 4 NVMe M.2 support onboard with built-in HW RAID1 via SCC-A2NM2241GH-B1;
- Up to 3 front hot-swap 3.5" NVMe/SAS drive bays  
Built-in SAS3 Support via Broadcom 3808; IT Mode;



|                          |                                                                                                                                                                                                                                                                   |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Form Factor              | 2U Rackmount<br>Enclosure: 449 x 88 x 774mm (17.68" x 3.47" x 30.5")<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 366MB 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 3 bays <ul style="list-style-type: none"> <li>• 2 front hot-swap 3.5" PCIe 5.0 NVMe/SAS drive bays</li> <li>• 1 front hot-swap 3.5" PCIe 4.0 NVMe/SAS drive bay</li> </ul> M.2: 2 M.2 PCIe 5.0 x4 NVMe slots (M-key 22110; VROC required for RAID) |
| Expansion Slots          | Default <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         | SAS: SAS (12Gbps) via Broadcom® 3808; (IT mode)<br>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 Type-A ports(Rear)<br>Video: 1 VGA port                                                                                                                                                                |



|                       |                                                                                                                                                                                                                                                                                                             |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| System Cooling        | <p>Fans: Up to 4x 14.9K RPM Heavy Duty 80x80x38mm Fan(s)</p> <p>Air Shroud: 2 Air Shrouds</p> <p>Liquid Cooling: Direct to Chip (D2C) Cold Plate (optional)</p>                                                                                                                                             |
| Power Supply          | 2x 3600W Redundant (1 + 1) Titanium Level (96%) power supplies                                                                                                                                                                                                                                              |
| System BIOS           | BIOS Type: AMI 32MB SPI Flash                                                                                                                                                                                                                                                                               |
| Management            | SuperCloud Composer®; Supermicro Server Manager (SSM); Super Diagnostics Offline (SDO); Supermicro Thin-Agent Service (TAS); SuperServer Automation Assistant (SAA) New!                                                                                                                                    |
| PC Health Monitoring  | <p>CPU: Monitors for CPU Cores, Chipset Voltages, Memory</p> <p>FAN: Fans with tachometer monitoring</p> <p>Pulse Width Modulated (PWM) fan connectors</p> <p>Status monitor for speed control</p> <p>Temperature: Monitoring for CPU and chassis environment</p> <p>Thermal Control for fan connectors</p> |
| Dimensions and Weight | <p>Weight: Gross Weight: 96.6 lbs (43.8 kg)</p> <p>Net Weight: 66.1 lbs (30 kg)</p> <p>Available Color: Black front &amp; silver body</p>                                                                                                                                                                   |
| Operating Environment | <p>Operating Temperature: 10°C to 35°C (50°F to 95°F)</p> <p>Non-operating Temperature: -30°C to 60°C (-22°F to 140°F)</p> <p>Operating Relative Humidity: 8% to 80% (non-condensing)</p> <p>Non-operating Relative Humidity: 8% to 90% (non-condensing)</p>                                                |
| Motherboard           | <a href="#">Super X14DBT-B</a>                                                                                                                                                                                                                                                                              |
| Chassis               | CSE-827BQ2-R3K60P                                                                                                                                                                                                                                                                                           |