

# BigTwin SuperServer SYS-621BT-DNTR

2U 2-Node BigTwin with 6 hot-swap 3.5" NVMe/SATA drives per node



## Key Applications

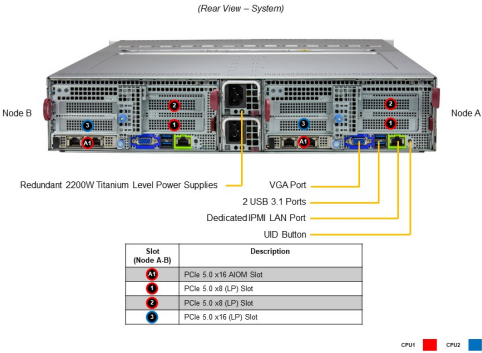
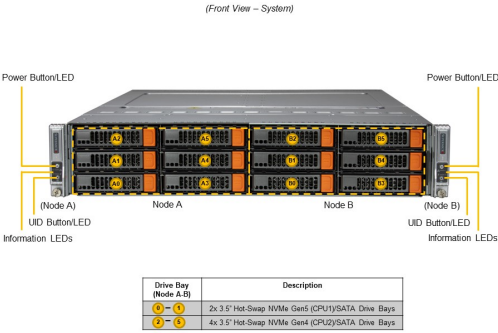
Hyperconverged Infrastructure, Scale-Out Object Storage, Back-up & Recovery,

## Key Features

- Two **hot-pluggable** systems (nodes) in a 2U form factor. Each node supports the following;;
- 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;
- Internal PCIe 4.0 x8 for 2 M.2 NVMe support onboard  
1 PCIe 5.0 x16 (LP) slot; 2 PCIe 5.0 x8 (LP) slot; Tool-less support  
Optional M.2 (22x80) HW RAID1 NVMe Boot Controller via SCC-A2NM2241G3-B1;
- Network connectivity via AIOM (OCP 3.0 compliant);
- 6 Hot-Swap 3.5" drive bays (2x PCIe 5.0 NVMe/SATA and 4x PCIe 4.0 NVMe/SATA);
- Liquid Cooling Support  
4 cooling fans per 2U enclosure, 14.9K RPM; Shared Cooling Design;
- 2200W Redundant Power Supplies Titanium Level (96%+); Shared Power Design;



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|--------------------------|---|
| 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 E (LGA-4677)<br>5th Gen Intel® Xeon® / 4th Gen Intel® Xeon® Scalable processors<br>Supports Intel Xeon CPU Max Series with high bandwidth memory (HBM)<br>Up to 64C/128T; Up to 320MB Cache per CPU   |
| System Memory            | Slot Count: 16 DIMM slots<br>Max Memory (1DPC): Up to 4TB 5600MT/s ECC DDR5 RDIMM   |
| Drive Bays Configuration | Default: Total 6 bays <ul style="list-style-type: none"> <li>• 2 front hot-swap 3.5" PCIe 5.0 NVMe/SATA drive bays</li> <li>• 4 front hot-swap 3.5" PCIe 4.0 NVMe/SATA drive bays</li> </ul> M.2: 2 M.2 PCIe 4.0 x4 NVMe slots (M-key 22110(default); VROC required for RAID)   |
| Expansion Slots          | PCI-Express (PCIe) Configuration: Default <ul style="list-style-type: none"> <li>• 2 PCIe 5.0 x8 LP slots</li> <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>• 1 PCIe 4.0 x16 FHFL slot</li> <li>• 1 PCIe 5.0 x16 LP slot</li> </ul> M.2: 2 M.2 NVMe slots (M-key) |
| On-Board Devices         | Chipset: Intel® C741<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   |



|                       |   |
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| System Cooling        | <p>Fans: Up to 4x 14.9K RPM Heavy Duty 8cm Fan(s)</p> <p>Air Shroud: 2 Air Shrouds</p> <p>Liquid Cooling: Direct to Chip (D2C) Cold Plate (optional)</p>  |
| Power Supply          | 2x 2200W Redundant (1 + 1) Titanium Level (96%) power supplies  |
| System BIOS           | BIOS Type: AMI 32MB Flash ROM   |
| Management            | <p>SuperCloud Composer®; Supermicro Server Manager (SSM); Supermicro Update Manager (SUM); Supermicro SuperDoctor® 5 (SD5); Super Diagnostics Offline (SDO); Supermicro Thin-Agent Service (TAS); SuperServer Automation Assistant (SAA) New!</p>   |
| PC Health Monitoring  | <p>FAN: Fans with tachometer monitoring</p> <p>Status monitor for speed control</p> <p>Pulse Width Modulated (PWM) fan connectors</p> <p>Temperature: Monitoring for CPU and chassis environment</p> <p>CPU: Monitors for CPU Cores, Chipset Voltages, Memory.</p> <p>8+4 Phase-switching voltage regulator</p> |
| Dimensions and Weight | <p>Weight: Gross Weight: 80.7 lbs (36.6 kg)</p> <p>Net Weight: 55.1 lbs (25 kg)</p> <p>Available Color: Black front &amp; silver body</p>   |
| Operating Environment | <p>RoHS Compliant</p> <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 X13DET-B</a>  |
| Chassis               | <b>CSE-827BD2-R2K22P</b>  |