

# BigTwin SuperServer SYS-622BT-DNC8R

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



## Key Applications

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

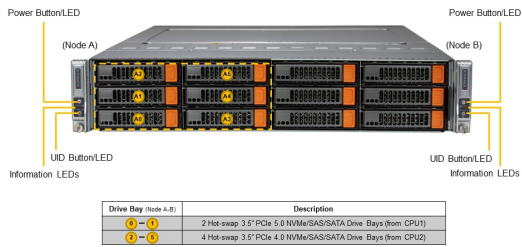
## Key Features

- Dual Socket E2 Intel® Xeon® 6 6700 series processors with E-cores up to 250W with air cooling or 330W with liquid cooling;
- 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 x8 LP + 1 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 6 front hot-swap 3.5" NVMe/SAS drive bays;
- Two **hot-pluggable** systems (nodes) in a 2U form factor. Each node supports the following;;

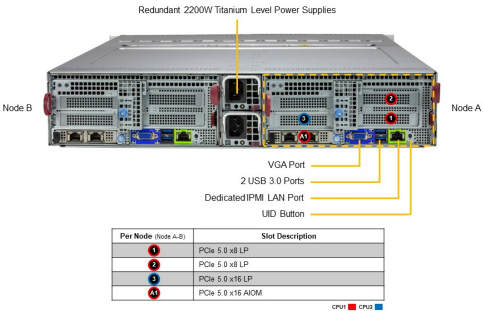


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|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 E2 (LGA-4710)<br>Intel® Xeon® 6 6700 series processors with E-cores<br>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 bay(s) <ul style="list-style-type: none"> <li>• 2 front hot-swap 3.5" PCIe 5.0 NVMe/SAS drive bay(s)</li> <li>• 4 front hot-swap 3.5" PCIe 4.0 NVMe/SAS drive bay(s)</li> </ul> M.2: 2 M.2 PCIe 5.0 x4 NVMe slot(s) (M-key 22110(default); VROC required for RAID) |
| Expansion Slots          | Default <ul style="list-style-type: none"> <li>• 2 PCIe 5.0 x8 LP slot(s)</li> <li>• 1 PCIe 5.0 x16 LP slot(s)</li> <li>• 1 PCIe 5.0 x16 AIOM slot(s) (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(s)<br>USB: 2 USB 3.0 Gen2 Type-A port(s) (Rear)<br>Video: 1 VGA port(s)                                                                                                                                                                    |

(Front View – System)



(Rear View – System)



|                       |                                                                                                                                                                                                                                                                                      |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| System Cooling        | Fans: 4x 14.9K RPM Heavy Duty 80x80x38mm Fan(s)<br>Liquid Cooling: Direct to Chip (D2C) Cold Plate (optional)                                                                                                                                                                        |
| Power Supply          | 2x 2200W 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  | FAN: Fans with tachometer monitoring<br>Status monitor for speed control<br>Pulse Width Modulated (PWM) fan connectors<br>Temperature: Monitoring for CPU and chassis environment<br>CPU: Monitors for CPU Cores, Chipset Voltages, Memory.<br>8+4 Phase-switching voltage regulator |
| Dimensions and Weight | Weight: Gross Weight: 80.7 lbs (36.6 kg)<br>Net Weight: 55.1 lbs (25 kg)<br>Available Color: Black front & silver body                                                                                                                                                               |
| Operating Environment | RoHS Compliant<br>Operating Temperature: 10°C ~ 35°C (50°F ~ 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-827BD2-R2K22P                                                                                                                                                                                                                                                                    |