

GPU SuperServer SYS-822GS-NBRT

DP Intel 8U System with NVIDIA HGX B200 8-GPU supporting 32 DIMMs



More details here

Key Applications

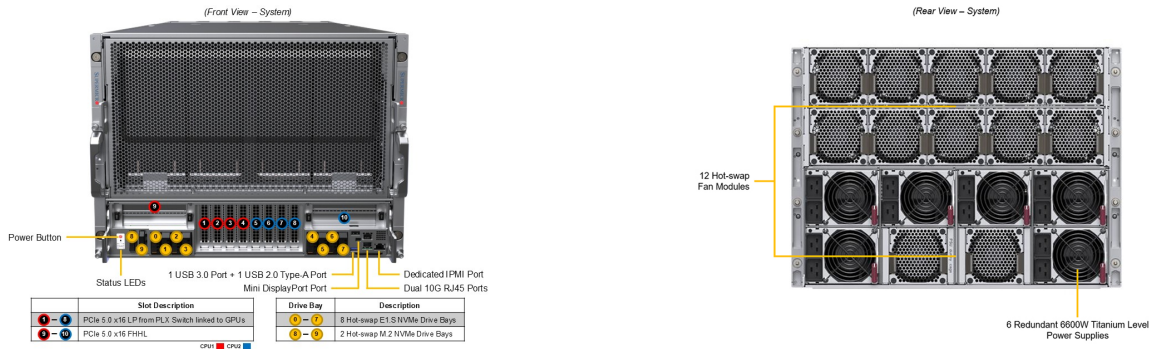
Scientific Research, Conversational AI, Business Intelligence & Analytics, Drug Discovery, Finance Services and Fraud Detection, AI/Deep Learning Training and Inference, Large Language Model (LLM) and Generative AI, High Performance Computing (HPC), Autonomous Vehicle Technologies,

Key Features

- Dual Intel® Xeon® 6700 series processors with P-cores, up to 350W TDP;
- HGX B200 8-GPU SXM6 with NVSwitch, 1000W TDP per GPU, air cooled;
- 32 DIMM slots supporting up to 8TB of memory;
- 8 Hot-swap E1.S NVMe storage drives , 2 M.2 NVMe;
- Up to 8 PCIe 5.0 x16 LP + 2 PCIe 5.0 x16 FHHL;
- 1 USB 3.0 port, 1 USB 2.0 port, 1 Mini-DP port, 1 IPMI GbE LAN port, 2 10G NIC (X710);
- 6 redundant (3+3) 6600W Titanium level power supplies;
- 8U air-cooled Front I/O system;



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| Form Factor | 8U Rackmount Enclosure: 449 x 356 x 950mm (17.6" x 13.8" x 37.4") Package: 1255 x 700 x 750mm (51" x 27.6" x 29.5") |
| Processor | Dual Socket E2 (LGA-4710) Intel® Xeon® 6700-series processors with P-cores Up to 172C/344T; Up to 336MB Cache per CPU |
| GPU | Max GPU Count: 8 onboard GPUs Supported GPU: NVIDIA SXM: HGX B200 8-GPU (180GB) CPU-GPU Interconnect: PCIe 5.0 x16 CPU-to-GPU Interconnect GPU-GPU Interconnect: NVIDIA® NVLink® with NVSwitch™ |
| System Memory | Slot Count: 32 DIMM slots Max Memory (1DPC): Up to 4TB 6400MT/s ECC DDR5 RDIMM Max Memory (2DPC): Up to 8TB 5200MT/s ECC DDR5 RDIMM |
| Drive Bays Configuration | Default: Total 8 bays <ul style="list-style-type: none"> • 8 front hot-swap E1.S NVMe drive bays M.2: 2 M.2 PCIe 5.0 x4 NVMe slots (M-key 2280/22110) |
| Expansion Slots | Default <ul style="list-style-type: none"> • 8 PCIe 5.0 x16 LP slots • 2 PCIe 5.0 x16 FHHL slots |
| On-Board Devices | Chipset: System on Chip Network Connectivity: 2 RJ45 10GbE with Intel® X710 |
| Input / Output | LAN: 1 RJ45 1 GbE Dedicated BMC LAN port USB: 1 USB 3.0 Type-A port(Front) 1 USB 2.0 Type-A port(Front) Video: 1 Mini-DP port(Front) TPM: 1 TPM header |



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| System Cooling | <p>Fans: 12 heavy duty fans with optimal fan speed control</p> <p>Air Shroud: 1 Air Shroud</p> |
| Power Supply | 6x 6600W Redundant (3 + 3) Titanium Level (96%) power supplies |
| System BIOS | BIOS Type: AMI 64MB UEFI |
| 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>8+4 Phase-switching voltage regulator</p> <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>Thermal Control for fan connectors</p> |
| Dimensions and Weight | <p>Weight: Gross Weight: 341 lbs (155 kg)</p> <p>Net Weight: 293 lbs (133 kg)</p> <p>Available Color: Silver</p> |
| Operating Environment | <p>Operating Temperature: 10°C to 35°C (50°F to 95°F)</p> <p>Non-operating Temperature: -40°C to 70°C (-40°F to 158°F)</p> <p>Operating Relative Humidity: 8% to 90% (non-condensing)</p> <p>Non-operating Relative Humidity: 5% to 95% (non-condensing)</p> |
| Motherboard | Super X14DBG-LC+ |
| Chassis | CSE-GP807TS-R000NP-B2 |