

GPU SuperServer SYS-822GS-NB3RT

DP Intel 8U System with NVIDIA HGX B300 8-GPU



More details here

Key Applications

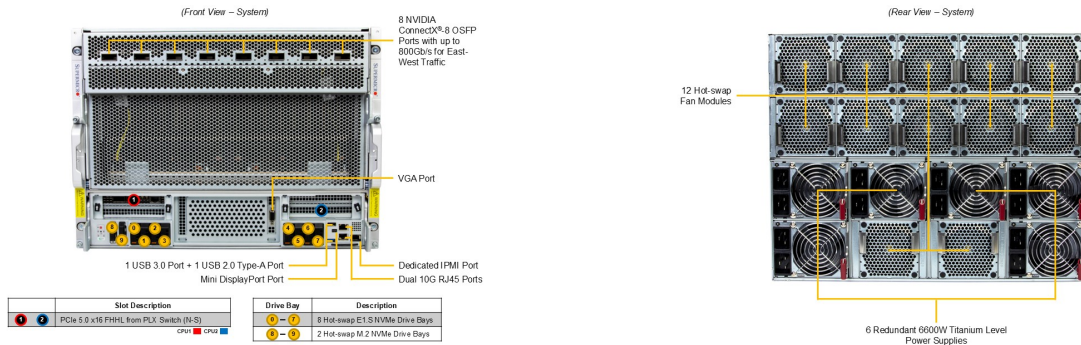
Scientific Research, Conversational AI, Business Intelligence & Analytics, Drug Discovery, Finance Services and Fraud Detection, AI/Deep Learning Training and Inference, Large Language Model (LLM) and Generative AI, High Performance Computing (HPC), Autonomous Vehicle Technologies,

Key Features

- Dual Intel® Xeon® 6700 series processors with P-cores, up to 350W TDP;
- 8x B300 Blackwell Ultra SXM GPUs with NVSwitch;
- 8x CX-8 Integrated 800G NICs supporting IB XDR or ETH 2x400GbE per NIC;
- 32x DIMM slots supporting up to 8TB of memory;
- 8x front hot-swap E1.S + 2x M.2 NVMe drive bays;
- 2x PCIe 5.0 x16 FHHL slots;
- 1x USB 3.0, 1x USB 2.0, 1x Mini-DP, 1x BMC/IPMI GbE LAN, 2x 10GbE NIC (X710);
- 6x redundant (3+3) 6.6kW Titanium level power supplies;
- 8U air-cooled chassis with front I/O;



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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® 6700/6500 series processors with P-cores Up to 128C/256T; Up to 504MB Cache per CPU |
| GPU | Max GPU Count: 8 onboard GPUs Supported GPU: NVIDIA SXM: HGX B300 8-GPU (288GB) GPU-GPU Interconnect: NVIDIA® NVLink® with NVSwitch™ |
| System Memory | Slot Count: 32 DIMM slots Max Memory (2DPC): Up to 8TB 6400MT/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 NVMe slots (M-key; RAID support via S3808N controller) |
| Expansion Slots | Default <ul style="list-style-type: none"> • 2 PCIe 5.0 x16 FHHL slots |
| On-Board Devices | Chipset: System on Chip Network Connectivity: 8 OSFP 800GbE |
| Input / Output | USB: 1 USB 3.0 Type-A port(Front) 1 USB 2.0 Type-A port(Front) Video: 1 VGA port 1 mini-DP port |



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| System Cooling | Fans: Up to 12 heavy duty fans with optimal fan speed control |
| 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 | CPU: Monitors for CPU Cores, Chipset Voltages, Memory 8+4 Phase-switching voltage regulator FAN: Fans with tachometer monitoring Status monitor for speed control Pulse Width Modulated (PWM) fan connectors Temperature: Monitoring for CPU and chassis environment Thermal Control for fan connectors |
| Dimensions and Weight | Weight: Gross Weight: 302 lbs (137 kg) Net Weight: 263 lbs (119 kg) Available Color: Silver |
| Operating Environment | Operating Temperature: 10°C to 35°C (50°F to 95°F) Non-operating Temperature: -40°C to 60°C (-40°F to 140°F) Operating Relative Humidity: 8% to 90% (non-condensing) Non-operating Relative Humidity: 5% to 95% (non-condensing) |
| Motherboard | Super X14DBG-LC |
| Chassis | CSE-GP807TS-R000NP |