

GPU SuperServer SYS-822GA-NBRT

DP Intel 8U System with NVIDIA HGX H100/H200 8-GPU and Rear I/O



[More details here](#)

Key Applications

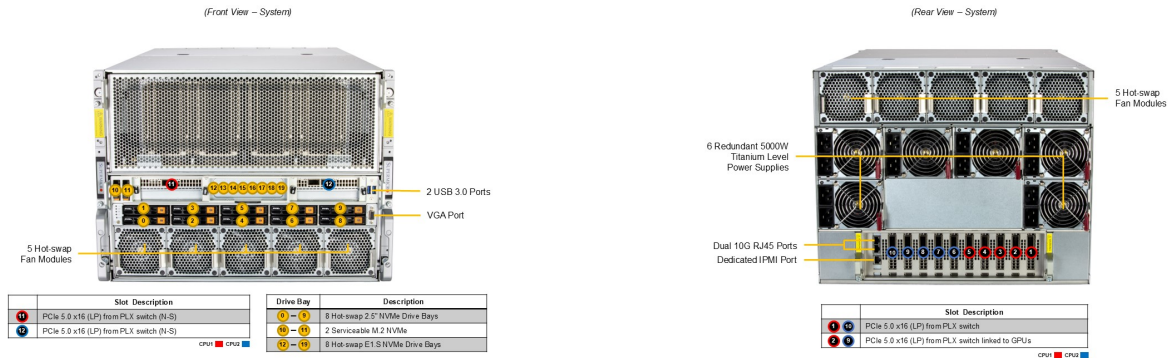
High Performance Computing, AI/Deep Learning Training, Industrial Automation, Retail, Healthcare, Conversational AI, Business Intelligence & Analytics, Drug Discovery, Climate and Weather Modeling, Finance & Economics,

Key Features

- Dual Intel® Xeon® 6900 series processors with P-cores, up to 500W TDP, 6UPI;
- Support for up to 8 onboard SXM GPU accelerator cards;
- 24 DIMM slots, ECC DDR5 designed for up to 6400MT/s (1DPC only);
- 2 10G NIC (X710), 1 VGA, 2 USB 3.0, and 1 Dedicated IPMI;
- 8 PCIe 5.0 x16 LP and 2 PCIe 5.0 x16 FHHL;
- 10 PCIe 5.0 NVMe U.2 and 2 NVMe M.2;



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|---------------------------------|---|
| Form Factor | 8U Rackmount Enclosure: 447 x 356 x 843mm (17.6" x 13.8" x 33.2") Package: 1300 x 700 x 750mm (51" x 27.6" x 29.5") |
| Processor | Dual Socket BR (LGA-7529) Intel® Xeon® 6900 series processors with P-cores Up to 128C/256T; Up to 504MB Cache per CPU |
| GPU | Max GPU Count: Up to 8 onboard GPUs Supported GPU: NVIDIA SXM: HGX H100 8-GPU (80GB), HGX H200 8-GPU (141GB) CPU-GPU Interconnect: PCIe 5.0 x16 CPU-to-GPU Interconnect GPU-GPU Interconnect: NVIDIA® NVLink® with NVSwitch™ |
| System Memory | Slot Count: 24 DIMM slots Max Memory (1DPC): Up to 6TB 6400MT/s ECC DDR5 RDIMM Max Memory (1DPC): Up to 6TB 8800MT/s ECC DDR5 MRDIMM |
| Drive Bays Configuration | Default: Total 10 bays • 10 front hot-swap 2.5" PCIe 5.0 x4 NVMe drive bays M.2: 2 M.2 NVMe slots (M-key) |
| Expansion Slots | Default • 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-AT2 |
| Input / Output | 1 VGA port |



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|-----------------------|---|
| System Cooling | Fans: 14 heavy duty fans with optimal fan speed control |
| Power Supply | 6x 5250W Redundant (3 + 3) power supplies |
| System BIOS | BIOS Type: AMI 32MB SPI Flash EEPROM |
| 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: 158.73 lbs (72 kg) Net Weight: 105.82 lbs (48 kg) Available Color: Silver |
| Operating Environment | Operating Temperature: 10°C ~ 35°C (50°F ~ 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-DAP |
| Chassis | CSE-GP805TS-R000NPF |