

# GPU SuperServer SYS-522GA-NRT

DP Intel 5U Dual-Root PCIe GPU System with up to 10 GPUs and extended thermal capacity

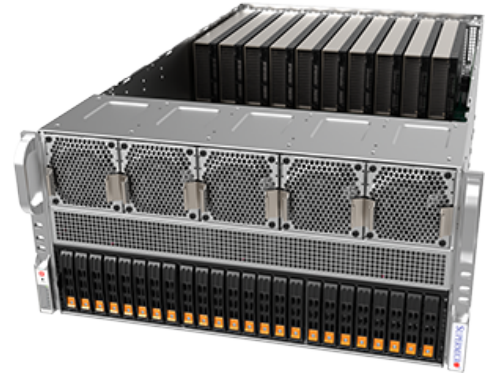


## Key Applications

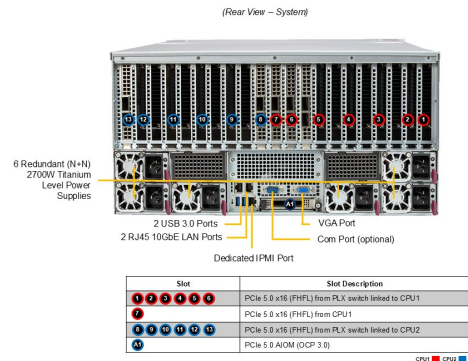
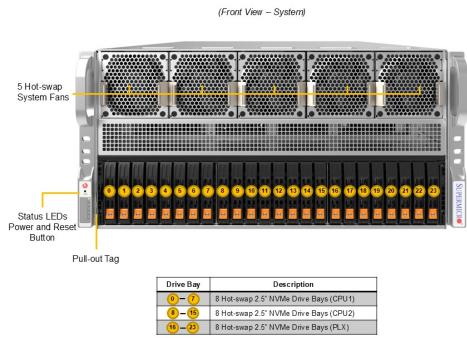
High Performance Computing, VDI, AI/Deep Learning Training, Media/Video Streaming, Cloud Gaming, Animation and Modeling, Design & Visualization, 3D Rendering, Diagnostic Imaging,

## Key Features

- Support for up to 10 double-width PCIe GPU accelerator cards;
- Flexible networking with up to AIOM slots;
- Up to 13 PCIe 5.0 x16 FHFL slots;
- 16 front hot-swap 2.5" NVMe + 8 front hot-swap 2.5" NVMe for Storage RDMA;



|                                 |  |
|---------------------------------|--|
| <b>Form Factor</b>              | 5U Rackmount<br>Enclosure: 437 x 222.5 x 737mm (17.2" x 8.75" x 29")<br>Package: 720 x 440 x 1080mm (28.34" x 17.32" x 42.51")   |
| <b>Processor</b>                | Dual Socket BR (LGA-7529)<br>Intel® Xeon® 6900 series processors with P-cores<br>Up to 128C/256T; Up to 504MB Cache per CPU  |
| <b>GPU</b>                      | Max GPU Count: Up to 10 double-width or 10 single-width GPUs<br>Supported GPU: NVIDIA PCIe: H100 NVL, L40S, L4<br>CPU-GPU Interconnect: PCIe 5.0 x16 Switch Dual-Root<br>GPU-GPU Interconnect: NVIDIA® NVLink® Bridge (optional) |
| <b>System Memory</b>            | Slot Count: 24 DIMM slots<br>Max Memory (1DPC): Up to 6TB 6400MT/s ECC DDR5 RDIMM<br>Max Memory (1DPC): Up to 6TB 8800MT/s ECC DDR5 MRDIMM   |
| <b>Drive Bays Configuration</b> | Default: Total 24 bays<br>• 24 front hot-swap 2.5" PCIe 5.0 NVMe drive bays<br>M.2: 2 M.2 NVMe slots (M-key)   |
| <b>Expansion Slots</b>          | Default<br>• 13 PCIe 5.0 x16 FHFL slots  |
| <b>On-Board Devices</b>         | Chipset: System on Chip<br>Network Connectivity: 2 RJ45 10GbE with Intel® X710-AT2   |
| <b>Input / Output</b>           | LAN: 2 RJ45 10 GbE LAN ports (Intel® I350)<br>USB: 2 USB 3.0 Type-A ports(Rear)<br>Video: 1 VGA port   |



|                       |   |
|-----------------------|---|
| System Cooling        | Fans: 10 heavy duty fans with optimal fan speed control<br>Air Shroud: 1 Air Shroud<br>Liquid Cooling: Direct to Chip (D2C) Cold Plate (optional)   |
| Power Supply          | 6x 2700W Redundant Titanium Level (96%) 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<br>8+4 Phase-switching voltage regulator<br>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>Thermal Control for fan connectors |
| Dimensions and Weight | Weight: Gross Weight: 100 lbs (45.3 kg)<br>Net Weight: 65.5 lbs (29.7 kg)<br>Available Color: Black Front & Silver Body   |
| Operating Environment | Operating Temperature: 10°C ~ 35°C (50°F ~ 95°F)<br>Non-operating Temperature: -40°C to 60°C (-40°F to 140°F)<br>Operating Relative Humidity: 8% to 90% (non-condensing)<br>Non-operating Relative Humidity: 5% to 95% (non-condensing)   |
| Motherboard           | <a href="#">Super X14DBG-AP</a>   |
| Chassis               | <a href="#">CSE-528G2TS-R5K40P</a>  |