

# 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,

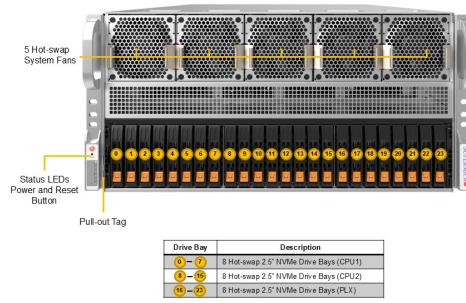
## Key Features

- Dual Intel® Xeon® 6900 series processors with P-cores, up to 500W TDP;
- Support for up to 10x PCIe GPU accelerator cards;
- 24 DIMM slots, ECC RDIMM / MRDIMM DDR5;
- Up to 13 PCIe 5.0 x16 FHFL slots;
- 24x U.2/U.3 NVMe and 2x M.2 NVMe;
- Flexible networking with AIOM slots;

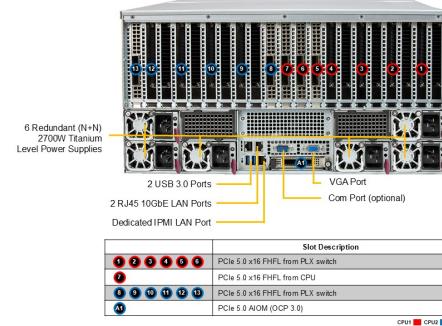


Form Factor	5U Rackmount Enclosure: 438 x 222.5 x 786.1mm (17.2" x 8.75" x 31") Package: 720 x 440 x 1080mm (28.34" x 17.32" x 42.51")
Processor	Dual Socket BR (LGA-7529) Intel® Xeon® 6900 series processors with P-cores Up to 128C/256T; Up to 504MB Cache per CPU
GPU	Max GPU Count: Up to 2 quad-width or 2 triple-width or 8 double-width or 10 single-width GPUs Supported GPU: NVIDIA PCIe: NVIDIA RTX PRO™ 6000 Blackwell Server Edition CPU-GPU Interconnect: PCIe 5.0 x16 Switch Dual-Root GPU-GPU Interconnect: NVIDIA® NVLink™ Bridge (optional)
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 24 bays <ul style="list-style-type: none"><li>• 24 front hot-swap 2.5" PCIe 5.0 NVMe drive bays</li></ul> M.2: 2 M.2 NVMe slots (M-key)
Expansion Slots	PCI-Express (PCIe) Configuration: Default <ul style="list-style-type: none"><li>• 13 PCIe 5.0 x16 FHFL slots</li></ul> M.2: 2 M.2 PCIe 5.0 x4 NVMe slots (B+M-key)
On-Board Devices	Chipset: System on Chip Network Connectivity: 2 RJ45 10GbE with Intel® X710-AT2
Input / Output	LAN: 2 RJ45 10 GbE LAN ports (Intel® I350) USB: 2 USB 3.0 Type-A ports(Rear) Video: 1 VGA port

(Front View – System)



(Rear View – System)



## System Cooling

Fans: Up to 10 heavy duty fans with optimal fan speed control  
 Air Shroud: 1 Air Shroud

## 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  
 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: 100 lbs (45.3 kg)  
 Net Weight: 65.5 lbs (29.7 kg)  
 Available Color: Black Front & Silver Body

## 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-AP](#)

## Chassis

[CSE-528G2TS-R9K60P](#)