

GPU SuperServer SYS-420GP-TNAR+

4U Dual Processor (3rd Gen Intel® Xeon®) GPU System with NVIDIA HGX A100 8-GPU 40GB/80GB, NVLink, NVSwitch, Redundant 3000W Titanium Level Power Supplies



More details here

Key Applications

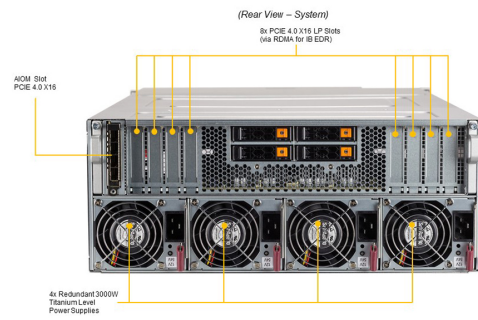
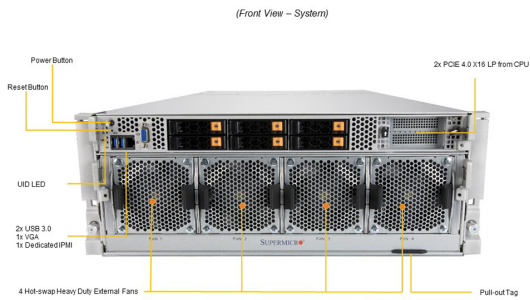
High Performance Computing, AI/Deep Learning Training,

Key Features

- Dual Socket P+ (LGA-4189) 3rd Gen Intel® Xeon® Scalable Processors;
- Intel® C621A Chipset;
- 32 DIMM Slots; Up to 8TB DRAM; Up to 8TB Intel® Optane™ Persistent Memory (up to 12TB with DRAM); 3200/2933/2666 ECC DDR4 LRDIMM; RDIMM; Intel® Optane™ Persistent Memory 200 series;
- AIOM/OCF 3.0 Support; 10 PCIe Gen 4.0 X16 LP Slots;
- Flexible networking options;
- 6x 2.5" Hot-swap NVMe/SATA/SAS drive bays; 2 M.2 NVMe and SATA for boot drive only;
- 4 heavy duty fans with optimal fan speed control;
- 4x 3000W redundant Titanium level power supplies;



Form Factor	4U Rackmount Enclosure: 446 x 174 x 900mm (17.6" x 6.9" x 35.4") Package: 695 x 750 x 1140mm (27.4" x 29.5" x 44.9")
Processor	Dual Socket P+ (LGA-4189) 3rd Gen Intel® Xeon® Scalable processors Up to 40C/80T; Up to 60MB Cache per CPU Supports up to 270W TDP CPUs (Air Cooled)
GPU	Supported GPU: HGX A100 8-GPU SXM4 Multi-GPU Board CPU-GPU Interconnect: PCIe 4.0 x16 CPU-to-GPU Interconnect GPU-GPU Interconnect: NVIDIA® NVLink™ with NVSwitch™
System Memory	Memory Capacity: 32 DIMM slots Up to 8TB: 32x 256 GB DRAM Up to 12TB: 16x 512 GB PMem Memory Type: 3200/2933/2666MHz ECC DDR4 RDIMM/LRDIMM Intel® Optane™ persistent memory 200 series
Drive Bays	6x 2.5" hot-swap NVMe/SATA/SAS drive bays (6x 2.5" NVMe hybrid; 4x 2.5" NVMe dedicated) 2 M.2 NVMe OR 2 M.2 SATA3
Expansion Slots	10 PCIe 4.0 x16 LP slot(s)
On-Board Devices	SATA: SATA3 (6Gbps); RAID 0/1/5/10 support Chipset: Intel® C621A Network Connectivity: 2x 10GbE BaseT with Intel® X550-AT2 (optional) IPMI: Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
Input / Output	Video: 1 VGA port(s)



System Cooling	4 heavy duty fan(s)
Power Supply	6000W Redundant Titanium Level power supplies
System BIOS	BIOS Type: AMI 32MB SPI Flash EEPROM
Management	Redfish API; Supermicro Server Manager (SSM); Supermicro Power Manager (SPM); Supermicro Update Manager (SUM); SuperDoctor® 5; Super Diagnostics Offline ; KVM with dedicated LAN ; IPMI 2.0
PC Health Monitoring	CPU: Monitors for CPU Cores, Chipset Voltages, Memory 7 +1 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	Height: 6.9" (174 mm) Width: 17.6" (446 mm) Depth: 35.4" (900 mm) Gross Weight: 225 lbs (102.1 kg) Net Weight: 166 lbs (75.3 kg) Packaging: 29.5" (H) x 27.4" (W) x 44.9" (D) Available Color: Black Front & Silver Body
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 X12DGO-6
Chassis	CSE-438G