

GPU SuperServer SYS-420GP-TNR

DP Intel, Dual-Root System with 10 PCIe GPUs



Key Applications

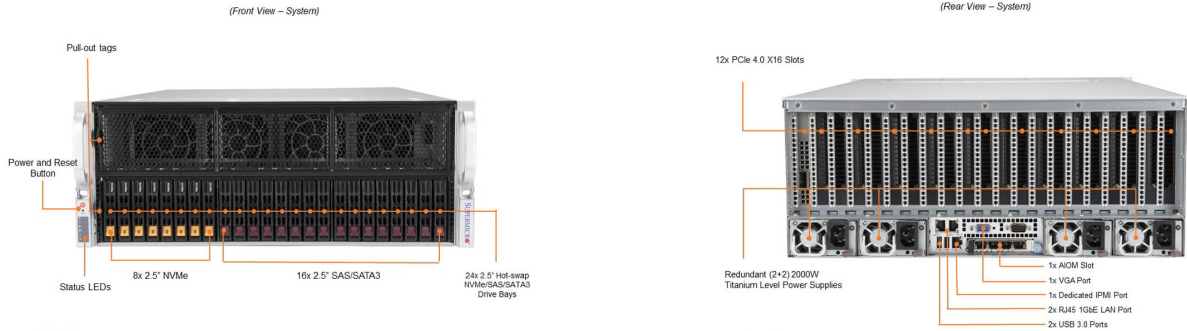
High Performance Computing, Rendering, VDI, AI/Deep Learning Training,

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
12 PCIe Gen 4.0 X16 FHFL Slots;
- Flexible networking options;
- Total 24x 2.5" Hot-swap drive bays
8x HOT SWAP 2.5" NVMe
8x HOT SWAP 2.5" SATA
8x HOT SWAP 2.5" SATA/SAS (AOC required)
2x M.2 NVMe for boot drive only;
- 8 Hot-Swap Heavy Duty Fans with Optimal Fan Speed Control;
- 4x 2000W redundant Titanium level power supplies;



Form Factor	4U Rackmount Enclosure: 437 x 178 x 737mm (17.2" x 7" x 29") Package: 685 x 675 x 1041mm (27" x 26.57" x 41")
Processor	Dual Socket P+ (LGA-4189) 3rd Gen Intel® Xeon® Scalable processors Up to 40C/80T; Up to 60MB Cache per CPU
GPU	Max GPU Count: Up to 10 double-width or 10 single-width GPUs Supported GPU: NVIDIA PCIe: H100, L40, RTX A5500, A40, RTX A6000, RTX A5000, RTX A4500, RTX A4000, RTX A2000, A40, A30, A16, A2, A100, A10 Intel PCIe: Intel Data Center GPU Flex 170 CPU-GPU Interconnect: PCIe 4.0 x16 Switch Dual-Root GPU-GPU Interconnect: NVIDIA® NVLink® Bridge (optional)
System Memory	Slot Count: 32 DIMM slots Max Memory (2DPC): Up to 8TB 3200MT/s ECC DDR4 RDIMM/LRDIMM Supports Intel® Optane™ persistent memory 200 series
Drive Bays Configuration	Default: Total 24 bays <ul style="list-style-type: none"> • 8 front hot-swap 2.5" NVMe drive bays • 16 front hot-swap 2.5" SAS/SATA drive bays Option A: Total 24 bays <ul style="list-style-type: none"> • 24 front hot-swap 2.5" NVMe*/SAS/SATA drive bays (*NVMe support may require additional storage controller and/or cables, please see the optional parts list for details) M.2: 2 M.2 NVMe/SATA slots (M-key)
Expansion Slots	Default <ul style="list-style-type: none"> • 12 PCIe 4.0 x16 FHFL slots
On-Board Devices	SATA: SATA (6Gbps) ; RAID 0/1/5/10 support Chipset: Intel® C621A Network Connectivity: 2 RJ45 1GbE with Intel® I350
Input / Output	1 VGA port



System Cooling	Fans: 8 heavy duty fans with optimal fan speed control
Power Supply	4x 2000W Redundant Titanium Level (96%) power supplies
System BIOS	BIOS Type: AMI 32MB SPI Flash EEPROM
Management	SuperCloud Composer; Supermicro Server Manager (SSM); Supermicro Update Manager (SUM); Supermicro SuperDoctor® 5 (SD5); 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 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	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 ~ 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 X12DPG-OA6
Chassis	CSE-418G2TS-R4016BP