

GPU SuperServer SYS-220GP-TNR

DP Intel System with 6 PCIe GPUs



Key Applications

Scientific Virtualization, High Performance Computing, VDI, AI/Deep Learning Training,

Key Features

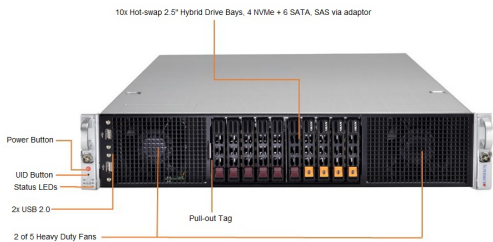
- Dual Socket P+ (LGA-4189) 3rd Gen Intel® Xeon® Scalable Processors;
- Intel® C621A Chipset;
- 16 DIMM Slots; Up to 4TB DRAM; Up to 4TB Intel® Optane™ Persistent Memory (up to 6TB with DRAM) ; 3200/2933/2666 ECC DDR4 LRDIMM;RDIMM; Intel® Optane™ Persistent Memory 200 series;
- 6 PCIe Gen 4.0 x16 FH, 10.5" L
Up to 2 PCIe Gen 4.0 x8 FH;
- Flexible networking options;
- Total 10x 2.5" Hot-swap drive bays, configurable combination of SATA + NVMe with optional cable, up to 6x NVMe
Configuration 3: 4x SATA + 6x NVMe
2x M.2 NVMe for boot drive only (with optional expansion card AOC-SLG3-2M2)
Configuration 1: 8x SATA + 2x NVMe (PCIe slot 7 + slot 8 enabled)
Configuration 2: 6x SATA + 4x NVMe (PCIe slot 7 enabled);
- 5 counter rotating fans w/ Optimal Fan Speed Control;
- 2x Redundant Titanium level power supplies;



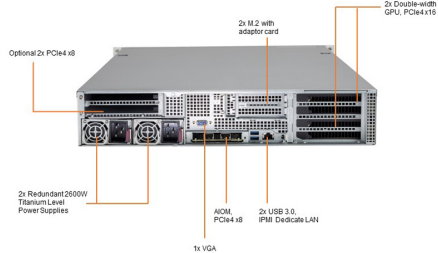
Form Factor: 2U Rack-mountable;
Enclosure: 440.7 x 88 x 766.8mm (17.35" x 3.46" x 30.18")
Package: 673 x 279 x 1130mm (26.5" x 11" x 44.5")

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 6 double-width or 8 single-width GPUs Supported GPU: NVIDIA PCIe: A40, RTX A6000, RTX A5000, RTX A4500, RTX A4000, A40, A30, A16, A2, A100, A10 CPU-GPU Interconnect: PCIe 4.0 x16 CPU-to-GPU Interconnect GPU-GPU Interconnect: PCIe
System Memory	Slot Count: 16 DIMM slots Max Memory (2DPC): Up to 4TB 3200MT/s ECC DDR4 RDIMM/LRDIMM Supports Intel® Optane™ persistent memory 200 series
Drive Bays Configuration	Default: Total 10 bays <ul style="list-style-type: none"> • 6 front hot-swap 2.5" SAS*/SATA drive bays • 4 front hot-swap 2.5" NVMe drive bays (*SAS support may require additional storage controller and/or cables)
Expansion Slots	Default <ul style="list-style-type: none"> • 6 PCIe 4.0 x16 FH/10.5"L slots • 2 PCIe 4.0 x8 FHFL slots
On-Board Devices	SATA: SATA (6Gbps) ; RAID 0/1/5/10 support Chipset: Intel® C621A Network Connectivity: Via AIOM
Input / Output	1 VGA port

(Front View – System)



(Rear View – System)



System Cooling	Fans: 5 heavy duty fans with optimal fan speed control
Power Supply	1x 2600W Redundant Titanium Level (96%) power supply
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: 54 lbs (24.5 kg) Net Weight: 39.5 lbs (17.9 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	<u>Super X12DPG-AR</u>
Chassis	CSE-218GH2TS-R2K63BP