

GPU SuperServer SYS-220GQ-TNAR+

DP Intel System with NVIDIA HGX A100 4-GPU and 3000W Power Supplies

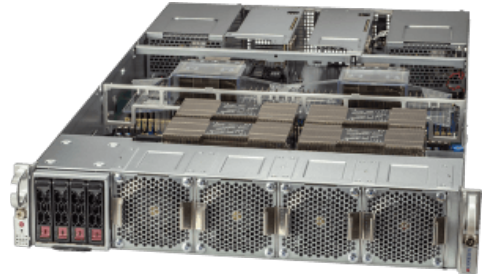


Key Applications

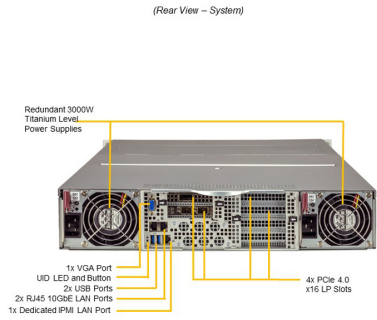
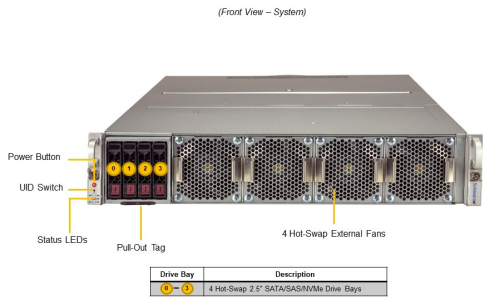
High Performance Computing, AI/Deep Learning Training,

Key Features

- Dual Socket P+ (LGA-4189) 3rd Gen Intel® Xeon® Scalable Processors;
- Intel® C621A Chipset;
- Up to 4x PCIe Gen 4.0 X16 LP Slots;
- High density 2U system with NVIDIA® HGX™ A100 4-GPU
Highest GPU communication using NVIDIA® NVLINK™
Supports HGX A100 4-GPU 40GB (HBM2) or 80GB (HBM2e)
Direct connect PCIe Gen4 Platform with NVIDIA® NVLink™ v3.0 up to 600GB/s interconnect;
- Flexible networking options;
- 4x 2.5" Hot-swap (SATA/SAS/NVMe) drive bays
2 M.2 NVMe/SATA via Intel® C621A PCH chipset (for boot drive only);
- 4 heavy duty fans with optimal fan speed control;
- 2x 3000W redundant Titanium level power supplies;



Form Factor	2U Rackmount Enclosure: 437 x 89 x 830.3mm (17.2" x 3.5" x 32.7") Package: 672 x 250 x 1100mm (22.5" x 11" x 45.5")
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 4 onboard GPUs Supported GPU: NVIDIA SXM: HGX A100 4-GPU (80GB) CPU-GPU Interconnect: PCIe 4.0 x16 CPU-to-GPU Interconnect GPU-GPU Interconnect: NVIDIA® NVLink™
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 4 bays • 4 front hot-swap 2.5" NVMe/SAS/SATA drive bays M.2: 2 M.2 NVMe/SATA slots (M-key)
Expansion Slots	Default • 3 PCIe 4.0 x16 LP slots Option A* • 4 PCIe 4.0 x16 LP slots
On-Board Devices	SATA: SATA (6Gbps) ; RAID 0/1/5/10 support Network Connectivity: 2 RJ45 10GbE with Intel® X540-AT2 BMC: ASPEED AST2600 BMC
Input / Output	1 VGA port



System Cooling	Fans: Up to 4 heavy duty fans with optimal fan speed control
Power Supply	1x 3000W Redundant Titanium Level (96%) power supply
System BIOS	BIOS Type: AMI 32MB SPI Flash EEPROM
Management	SuperCloud Composer® (SCC); 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!
Dimensions and Weight	Weight: Gross Weight: 86.5 lbs (39.2 kg) Net Weight: 67.5 lbs (30.6 kg) Available Color: 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 X12DPG-QR
Chassis	CSE-228GTS-R3K02P