# GPU SuperServer SYS-420GU-TNXR

DP Intel Universal GPU System with NVIDIA HGX A100 4-GPU

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; 3200/2933/2666 ECC DDR4 LRDIMM;RDIMM;
- Highest GPU communication using NVIDIA® NVLINK™
  Supports HGX A100 4-GPU 40GB (HBM2) or 80GB (HBM2e)
  4U system with NVIDIA® HGX™ A100 4-GPU
  6 PCIe Gen 4.0 X16 LP Slots;
- Flexible networking options;
- Up to 10x 2.5" Hot-swap NVMe/SATA drive bays
  1 M.2 NVMe/SATA via Intel® C621A PCH chipset (for boot drive only);
- 5 Hot-Swap Heavy Duty Fans with Optimal Fan Speed Control;
- 4x 3000W redundant Titanium level power supplies;

| | |
|---|---|
| Form Factor | 4U Rackmount<br>Enclosure: 449 x 175.6 x 833mm (17.67" x 7" x 32.79")<br>Package: 700 x 370 x 1260mm (27.55" x 14.57" x 49.6") |
| Processor | Dual Socket P+ (LGA-4189)<br>3rd Gen Intel® Xeon® Scalable processors<br>Up to 40C/80T; Up to 60MB Cache per CPU |
| GPU | Max GPU Count: 4 onboard GPUs<br>Supported GPU: NVIDIA SXM: HGX A100 4-GPU (80GB)<br>CPU-GPU Interconnect: PCIe 4.0 x16 Switch Dual-Root<br>GPU-GPU Interconnect: NVIDIA® NVLink™ |
| System Memory | Slot Count: 32 DIMM slots<br>Max Memory (2DPC): Up to 8TB 3200MT/s ECC DDR4 RDIMM/LRDIMM |
| Drive Bays Configuration | Default: Total 10 bays<br>• 10 front hot-swap 2.5" NVMe/SATA drive bays<br>M.2: 2 M.2 NVMe/SATA slots (M-key) |
| Expansion Slots | Default<br>• 6 PCIe 4.0 x16 LP slots |
| On-Board Devices | SATA: SATA (6Gbps) ; RAID 0/1/5/10 support<br>Network Connectivity: 2 RJ45 10GbE with Intel® X710 |
| Input / Output | 1 VGA port |

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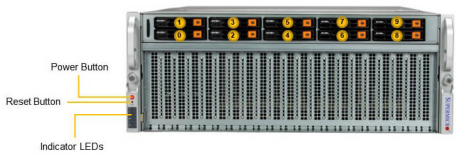
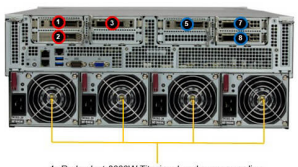
*(Front View – System)*




| Drive Bay | Description |
|---|---|
| 0 – 9 | 10x 2.5" Hot-swap NVMe/SATA3 Drive Bays |

*(Rear View – System)*



4x Redundant 3000W Titanium Level power supplies

| | Slot Description |
|---|---|
| 1 | PCI-E 4.0 x16 LP Slot via PLX2 for GPU2 RDMA |
| 2 | PCI-E 4.0 x16 LP Slot |
| 3 | PCI-E 4.0 x16 LP Slot via PLX1 for GPU1 RDMA |
| 5 | PCI-E 4.0 x16 LP Slot via PLX4 for GPU4 RDMA |
| 7 | PCI-E 4.0 x16 LP Slot via PLX3 for GPU3 RDMA |
| 8 | PCI-E 4.0 x16 LP |

CPU1 CPU2

| | |
|---|---|
| System Cooling | Fans: Up to 5 removable heavy-duty Fan(s) |
| Power Supply | 4x 3000W Redundant Titanium Level (96%) power supplies |
| 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! |
| PC Health Monitoring | CPU: 7 +1 Phase-switching voltage regulator<br>Monitors for CPU Cores, Chipset Voltages, Memory<br>Fan: Fans with tachometer monitoring<br>Pulse Width Modulated (PWM) fan connectors<br>Status monitor for speed control<br>Temperature: Monitoring for CPU and chassis environment<br>Thermal Control for fan connectors |
| Dimensions and Weight | Weight: Gross Weight: 140 lbs (64 kg)<br>Net Weight: 105 lbs (48 kg)<br>Available Color: Black Front & Silver Body |
| Operating Environment | Operating Temperature: 10°C to 35°C (50°F to 95°F)<br>Non-operating Temperature: -40°C to 60°C (-40°F to 140°F)<br>Operating Relative Humidity: 8% to 90% (non-condensing)<br>Non-operating Relative Humidity: 5% to 95% (non-condensing) |
| Motherboard | **Super X12DGU** |
| Chassis | **CSE-458GTS-R3K06P** |

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