

GPU SuperServer SYS-420GU-TNXR

Universal 4U Dual Processor (Intel) GPU System with NVIDIA HGX™ A100 4-GPU SXM4 board, NVLINK™ GPU-GPU Interconnect, and Redundant 3000W Titanium Level Power Supplies.



More details here

Key Applications

High Performance Computing, AI/Deep Learning Training,

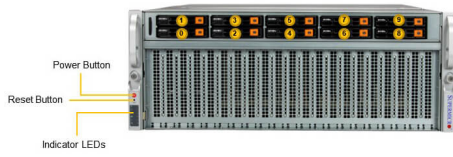
Key Features

- Dual Socket P+ (LGA-4189) 3rd Gen Intel® Xeon® Scalable Processors;
- Intel® C621A Chipset;
- 32 DIMM Slots; Up to 8TB DRAM; 3200/2933/2666 ECC DDR4 LRDIMM;RDIMM;
- Supports HGX A100 4-GPU 40GB (HBM2) or 80GB (HBM2e); 4U system with NVIDIA® HGX™ A100 4-GPU; Highest GPU communication using NVIDIA® NVLINK™; 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;



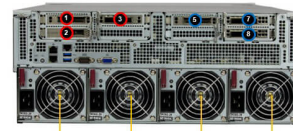
Form Factor	4U Rackmount Enclosure: 449 x 175.6 x 833mm (17.67" x 7" x 32.79") Package: 700 x 370 x 1260mm (27.55" x 14.57" x 49.6")
Processor	Dual Socket P+ (LGA-4189) 3rd Gen Intel® Xeon® Scalable processors Up to 40C/80T; Up to 60MB Cache per CPU
GPU	Max GPU Count: Up to 4 onboard GPU(s) Supported 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
Drive Bays	10x 2.5" hot-swap NVMe/SATA drive bays (10x 2.5" NVMe hybrid) 1 M.2 NVMe OR 1 M.2 SATA3
Expansion Slots	6 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® X710 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)

(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	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
4	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: 5 removable heavy-duty Fan(s)
Power Supply	4x 3000W 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: 7" (175.6 mm) Width: 17.67" (449 mm) Depth: 32.79" (833 mm) Gross Weight: 140 lbs (64 kg) Net Weight: 105 lbs (48 kg) Packaging: 14.57" (H) x 27.55" (W) x 49.6" (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 X12DGU
Chassis	CSE-458GTS-R3K06P