

# GPU SuperServer SYS-421GU-TNXR

Universal 4U Dual Processor (Intel) GPU System with NVIDIA HGX™ H100 4-GPU SXM5 board, NVLINK™ GPU-GPU Interconnect, and Redundant 3000W Titanium Level Power Supplies.



[More details here](#)

## Key Applications

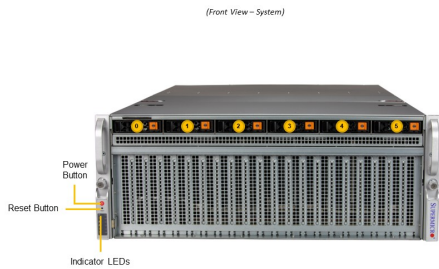
High Performance Computing, AI/Deep Learning Training,

## Key Features

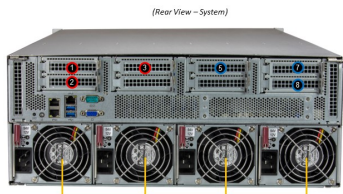
- 32 DIMM slots Up to 8TB: 32x 256 GB DRAM Memory Type: 4800MHz ECC DDR5;
- 8 PCIe Gen 5.0 X16 LP Slots;
- Flexible networking options; ;
- 2 M.2 NVMe and SATA for boot drive only; 6x 2.5" Hot-swap NVMe/SATA/SAS drive bays;



|                  |                                                                                                                                                                                                                         |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Form Factor      | 4U Rackmount<br>Enclosure: 449 x 222.5 x 833mm (17.67" x 8.75" x 32.79")<br>Package: 700 x 370 x 1260mm (27.55" x 14.57" x 49.6")                                                                                       |
| Processor        | 4th Gen Intel® Xeon® Scalable processors<br>Dual Socket LGA-4677 (Socket E) supported<br><br>(Supports up to 350W TDP CPUs (Aircooled), Supports up to 350W TDP CPUs (Liquid Cooled))                                   |
| GPU              | Supported GPU: HGX H100 4-GPU SXM5 Multi-GPU Board<br>CPU-GPU Interconnect: PCIe 5.0 x16 CPU-to-GPU Interconnect<br>GPU-GPU Interconnect: NVIDIA® NVLink™                                                               |
| System Memory    | 32 DIMM slots<br>Up to 8TB ECC LRDIMM, DDR5-4800MHz                                                                                                                                                                     |
| Drive Bays       | 6x 2.5" hot-swap NVMe/SATA drive bays (6x 2.5" NVMe hybrid)                                                                                                                                                             |
| Expansion Slots  | 8 PCIe 5.0 X16 slot(s)                                                                                                                                                                                                  |
| On-Board Devices | Chipset: Intel® C741<br>Network Connectivity: 2x 10GbE BaseT with Intel® X710-AT2<br>IPMI: Support for Intelligent Platform Management Interface v.2.0<br>IPMI 2.0 with virtual media over LAN and KVM-over-LAN support |
| Input / Output   | Video: 1 VGA port(s)                                                                                                                                                                                                    |



| Drive Bay | Description                             |
|-----------|-----------------------------------------|
| (5)       | 6x 2.5" Hot-swap (NVMe/SATA) Drive Bays |



4x 3000W Redundant Titanium Level Power Supplies

| Slot | Slot Description                          |
|------|-------------------------------------------|
| 1    | PCIe 5.0 x16 (LP) via PLX2 for GPU2 RDMA  |
| 2    | PCIe 5.0 x16 (LP)                         |
| 3    | PCIe 5.0 x16 (LP) from PLX3 for GPU1 RDMA |
| 4    | PCIe 5.0 x16 (LP) from PLX4 for GPU4 RDMA |
| 5    | PCIe 5.0 x16 (LP) from PLX3 for GPU3 RDMA |
| 6    | PCIe 5.0 x16 (LP)                         |

|                       |                                                                                                                                                                                                                                                                                                                           |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| System Cooling        | 5 heavy duty fan(s)<br>Liquid Cooling: Direct to Chip (D2C) Cold Plate (optional)                                                                                                                                                                                                                                         |
| Power Supply          | 4x 3000W Redundant Power Supplies, Titanium Level<br>Output Type: Backplanes (connector)                                                                                                                                                                                                                                  |
| System BIOS           | BIOS Type: AMI 32MB SPI Flash EEPROM                                                                                                                                                                                                                                                                                      |
| Management            | SuperDoctor® 5; Watch Dog; NMI; SUM; KVM with dedicated LAN; SPM; Intel® Node Manager; SSM; IPMI 2.0; Redfish API; OOB Management Package (SFT-OOB-LIC )                                                                                                                                                                  |
| PC Health Monitoring  | CPU: Monitors for CPU Cores, Chipset Voltages, Memory<br>8+4 Phase-switching voltage regulator<br>FAN: Fans with tachometer monitoring<br>Status monitor for speed control<br>Pulse Width Modulated (PWM) fan connectors<br>Temperature: Monitoring for CPU and chassis environment<br>Thermal Control for fan connectors |
| Dimensions and Weight | Height: 8.75" (222.5 mm)<br>Width: 17.67" (449 mm)<br>Depth: 32.79" (833 mm)<br>Gross Weight: 225 lbs (102.1 kg)<br>Net Weight: 166 lbs (75.3 kg)<br>Packaging: 14.57" (H) x 27.55" (W) x 49.6" (D)<br>Available Color: Black Front & Silver Body                                                                         |
| Operating Environment | Operating Temperature: 10°C ~ 35°C (50°F ~ 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           | <a href="#">Super X13DGU</a>                                                                                                                                                                                                                                                                                              |
| Chassis               | CSE-458GTS-R3K06P                                                                                                                                                                                                                                                                                                         |