

GPU SuperServer SYS-421GE-TNRT3

DP Intel 4U Direct-connect PCIe GPU System with up to 8 GPUs



[More details here](#)

Key Applications

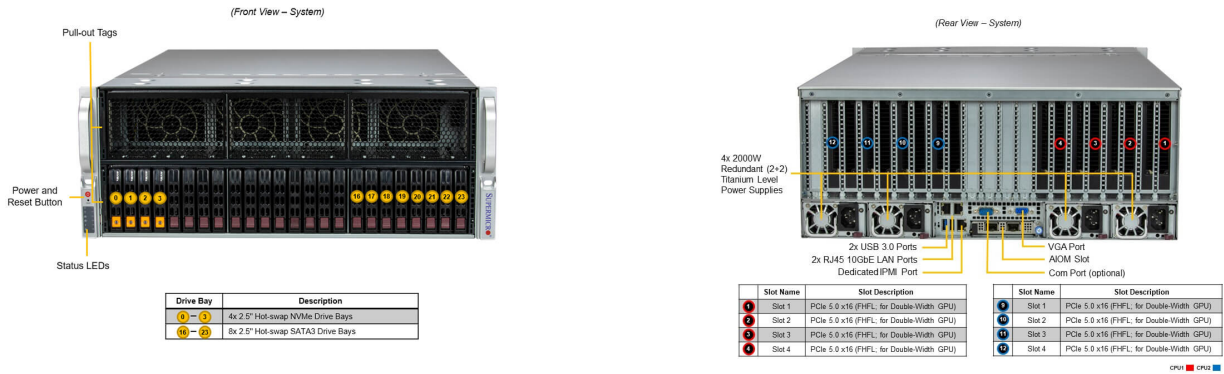
High Performance Computing, VDI, AI/Deep Learning Training, Media/Video Streaming, Cloud Gaming, Animation and Modeling, Design & Visualization, 3D Rendering, Diagnostic Imaging,

Key Features

- 5th/4th Gen Intel® Xeon® Scalable processor support;
- 32 DIMM slots Up to 8TB: 32x 256 GB DRAM Memory Type: 5600MT/s ECC DDR5;
- AIOM/OC 3.0 Support
8 PCIe Gen 5.0 X16 FHFL Slots;
- 8x 2.5" Hot-swap SATA drive bays
4x 2.5" Hot-swap NVMe drive bays
8 HOT SWAP 2.5" SATA/SAS (AOC required);
- 8 Hot-Swap Heavy Duty Fans with Optimal Fan Speed Control;
- 4x 2700W (2+2) Redundant Power Supplies, Titanium Level;



Form Factor	4U Rackmount Enclosure: 437 x 178 x 737mm (17.2" x 7" x 29") Package: 685 x 675 x 1041mm (27" x 26.57" x 41")
Processor	Dual Socket E (LGA-4677) 5th Gen Intel® Xeon® / 4th Gen Intel® Xeon® Scalable processors Up to 64C/128T; Up to 320MB Cache per CPU
GPU	Max GPU Count: Up to 8 double-width or 8 single-width GPUs Supported GPU: NVIDIA PCIe: H100 NVL, H100, RTX A4000, RTX 6000 Ada Generation, RTX 5000, L40S, L4, A100 CPU-GPU Interconnect: PCIe 5.0 x16 CPU-to-GPU Interconnect GPU-GPU Interconnect: NVIDIA® NVLink™ Bridge (optional)
System Memory	Slot Count: 32 DIMM slots Max Memory (1DPC): Up to 4TB 5600MT/s ECC DDR5 RDIMM Max Memory (2DPC): Up to 8TB 4400MT/s ECC DDR5 RDIMM
Drive Bays Configuration	Default: Total 12 bays <ul style="list-style-type: none"> • 4 front hot-swap 2.5" NVMe drive bays • 8 front hot-swap 2.5" SATA drive bays M.2: 2 M.2 NVMe slots (M-key)
Expansion Slots	Default <ul style="list-style-type: none"> • 8 PCIe 5.0 x16 FHFL slots
On-Board Devices	Chipset: Intel® C741 Network Connectivity: 2 RJ45 10GbE with Intel® X710-AT2
Input / Output	1 VGA port



System Cooling	<p>Fans: Up to 8 heavy duty fans with optimal fan speed control</p> <p>Liquid Cooling: Direct to Chip (D2C) Cold Plate (optional)</p>
Power Supply	4x 2700W Redundant Titanium Level (96%) power supplies
System BIOS	BIOS Type: AMI 32MB SPI Flash EEPROM
Management	<p>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!</p>
PC Health Monitoring	<p>CPU: Monitors for CPU Cores, Chipset Voltages, Memory</p> <p>8+4 Phase-switching voltage regulator</p> <p>FAN: Fans with tachometer monitoring</p> <p>Status monitor for speed control</p> <p>Pulse Width Modulated (PWM) fan connectors</p> <p>Temperature: Monitoring for CPU and chassis environment</p> <p>Thermal Control for fan connectors</p>
Dimensions and Weight	<p>Weight: Gross Weight: 100 lbs (45.3 kg)</p> <p>Net Weight: 65.5 lbs (29.7 kg)</p> <p>Available Color: Black Front & Silver Body</p>
Operating Environment	<p>Operating Temperature: 10°C to 35°C (50°F to 95°F)</p> <p>Non-operating Temperature: -40°C to 60°C (-40°F to 140°F)</p> <p>Operating Relative Humidity: 8% to 90% (non-condensing)</p> <p>Non-operating Relative Humidity: 5% to 95% (non-condensing)</p>
Motherboard	Super X13DEG-OA
Chassis	CSE-418G2TS-R5K40P