

GPU SuperServer SYS-821GE-TNHR

Key Applications

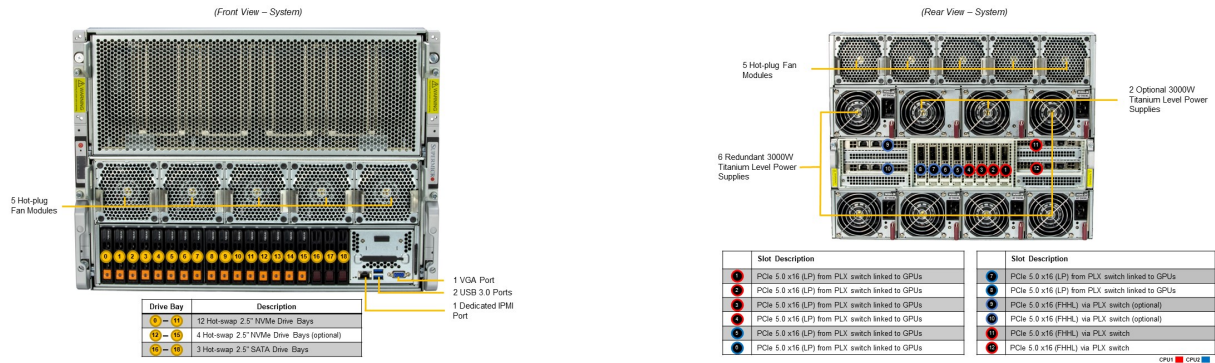
High Performance Computing, AI/Deep Learning Training, Industrial Automation, Retail, Healthcare, Conversational AI, Business Intelligence & Analytics, Drug Discovery, Climate and Weather Modeling, Finance & Economics,

Key Features

- 5th/4th Gen Intel® Xeon® Scalable processor support;
- 32 DIMM slots Up to 8TB: 32x 256 GB DRAM Memory Type: 5600MTs ECC DDR5;
- 2 PCIe Gen 5.0 X16 FHHL Slots, 2 PCIe Gen 5.0 X16 FHHL Slots (optional); 8 PCIe Gen 5.0 X16 LP;
- Flexible networking options;
- 3x 2.5" Hot-swap SATA drive bays; Optional: 8x 2.5" Hot-swap SATA drive bays; 16x 2.5" Hot-swap NVMe drive bays (12x by default, 4x optional); 2 M.2 NVMe for boot drive only;
- 10 heavy duty fans with optimal fan speed control;
- 6x 3000W (4+2) Redundant Power Supplies, Titanium Level; Optional: 8x 3000W (4+4) Redundant Power Supplies, Titanium Level;



Form Factor	8U Rackmount Enclosure: 437 x 355.6 x 843.28mm (17.2" x 14" x 33.2") Package: 698 x 750 x 1300mm (27.5" x 29.5" x 51.2")
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 onboard GPU(s) Supported GPU: NVIDIA SXM: HGX H100 8-GPU (80GB) CPU-GPU Interconnect: PCIe 5.0 x16 CPU-to-GPU Interconnect GPU-GPU Interconnect: NVIDIA® NVLink® with NVSwitch™
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	19x 2.5" hot-swap NVMe/SATA drive bays (16x 2.5" NVMe dedicated) 2 M.2 NVMe
Expansion Slots	8 PCIe 5.0 x16 LP slot(s) 4 PCIe 5.0 x16 FHHL slot(s)
On-Board Devices	Chipset: Intel® C741 Network Connectivity: 2x 10GbE BaseT with Intel® X550-AT2 (optional) 2x 25GbE SFP28 with Broadcom® BCM57414 (optional) 2x 10GbE BaseT with Intel® X710-AT2 (optional) 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)



System Cooling	Fans: 10 heavy duty fans with optimal fan speed control Liquid Cooling: 1Direct to Chip (D2C) Cold Plate (optional)
Power Supply	6x 3000W Redundant Titanium Level power supplies
System BIOS	BIOS Type: AMI 32MB SPI Flash EEPROM
Management	Redfish API; LCT Server Manager (SSM); LCT Power Manager (SPM); LCT 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 8+4 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: 14" (355.6 mm) Width: 17.2" (437 mm) Depth: 33.2" (843.28 mm) Gross Weight: 225 lbs (102.1 kg) Net Weight: 166 lbs (75.3 kg) Packaging: 29.5" (H) x 27.5" (W) x 51.2" (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)
Chassis	CSE-GP801TS