

GPU SuperServer SYS-221GE-TNHT-LCC

DP Intel 2U Liquid-Cooled System with NVIDIA HGX H100 4-GPU

Key Applications

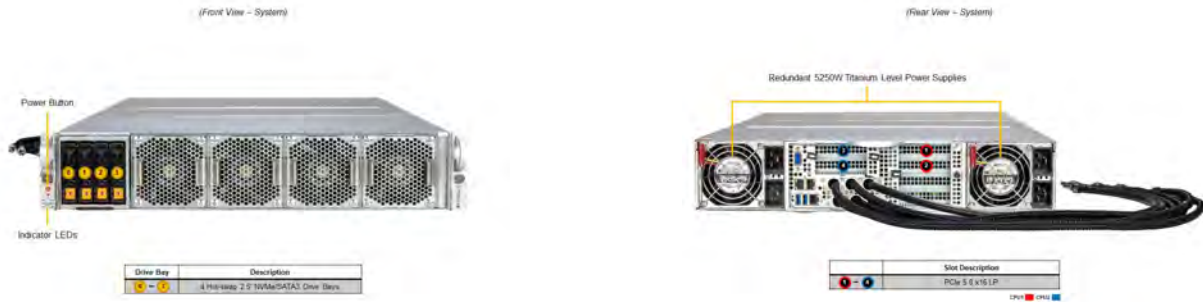
High Performance Computing, AI/Deep Learning Training, Industrial Automation, Retail, Healthcare, Conversational AI, Business Intelligence & Analytics, Drug Discovery, Climate and Weather Modeling, Finance & Economics,

Key Features

- Highest GPU communication using NVIDIA® NVLINK™
High density 2U system with NVIDIA® HGX™ H100 4-GPU
4 NVMe for GPU direct storage;
- 5th/4th Gen Intel® Xeon® Scalable processor support;
- 32 DIMM slots Up to 8TB: 32x 256 GB DRAM Memory Type: 5600MTs ECC DDR5;
- 4 PCIe Gen 5.0 X16 LP;
- Flexible networking options;
- 2 M.2 NVMe for boot drive only
4x 2.5" Hot-swap NVMe drive bays;
- 4 heavy duty fans with optimal fan speed control;
- 2x 5250W(1+1) Redundant Power Supplies;



Form Factor	2U Rackmount Enclosure: 437 x 89 x 830.3mm (17.2" x 3.5" x 32.7") Package: (22.5" x 11" x 45.5")
Processor	Dual Socket E (LGA-4677) 5th Gen Intel® Xeon® / 4th Gen Intel® Xeon® Scalable processors Up to 56C/112T; Up to 112.5MB Cache per CPU
GPU	Max GPU Count: Up to 4 onboard GPU(s) Supported GPU: NVIDIA SXM: HGX H100 4-GPU (80GB) CPU-GPU Interconnect: PCIe 5.0 x16 CPU-to-GPU Interconnect GPU-GPU Interconnect: NVIDIA® NVLink®
System Memory	Slot Count: 32 DIMM slots/16 Channels Max Memory (2DPC): Up to 8TB 5600MT/s ECC DDR5 RDIMM/LRDIMM
On-Board Devices	Chipset: Intel® C741 Network Connectivity: 2 RJ45 10GbE with Intel® X710-AT2 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	1 VGA port(s)



System Cooling	Fans: 4 Fan 8cm Fan(s) Liquid Cooling: Direct to Chip (D2C) Cold Plate (optional)
Power Supply	2x 5250W Redundant Titanium (certification pending) 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 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	Weight: Gross Weight: 86.5 lbs (39.2 kg) Net Weight: 67.5 lbs (30.6 kg) Available Color: 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	<u>Super X13DEG-R</u>
Chassis	<u>CSE-228G2TS-R5K25P</u>