

AI Training SuperServer SYS-421GE-NBRT-LCC

DP Intel 4U Liquid-Cooled System with NVIDIA HGX B200 8-GPU (complete rack and onsite service are required)



Key Applications

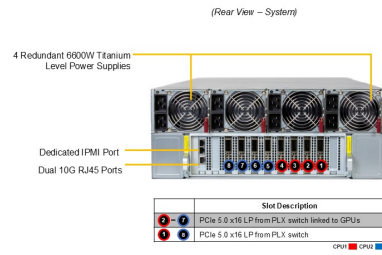
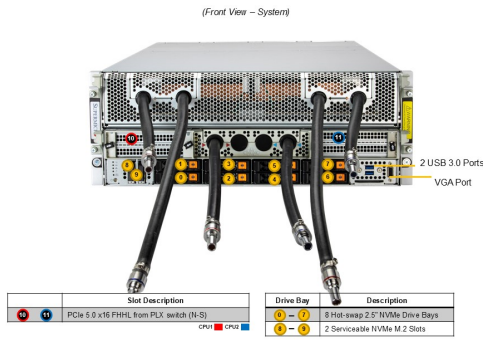
High Performance Computing, AI/Deep Learning Training, Industrial Automation, Retail, Healthcare, Conversational AI, Business Intelligence & Analytics, Drug Discovery, Climate and Weather Modeling, Finance & Economics,

Key Features

- *Complete liquid-cooled rack integration is required for purchase;
- 5th/4th Gen Intel® Xeon® Scalable processor support;
- Support for NVIDIA HGX B200 8-GPU;
- 32 DIMM slots up to 4TB 5600MT/s ECC DDR5 RDIMM;
- Up to 8 PCIe 5.0 x16 LP + 2 PCIe 5.0 x16 FHHL slots;
- Up to 8 front hot-swap 2.5" NVMe drive bays;
- 4 Redundant 6600W Titanium Level power supplies;



Form Factor	4U Rackmount Enclosure: 449 x 174 x 895.35mm (17.6" x 6.85" x 35.25") Package: 1280 x 410 x 730mm (50.39" x 16.14" x 28.7")
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: 8 onboard GPUs Supported GPU: NVIDIA SXM: HGX B200 8-GPU (180GB) 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 Configuration	Default: Total 8 bays <ul style="list-style-type: none"> • 8 front hot-swap 2.5" NVMe 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 LP slots • 2 PCIe 5.0 x16 FHHL slots Option A <ul style="list-style-type: none"> • 8 PCIe 4.0 x16 LP slots • 4 PCIe 5.0 x16 FHHL slots
On-Board Devices	Chipset: System on Chip Network Connectivity: 2 RJ45 10GbE with Intel® X710-AT2
Input / Output	1 VGA port



System Cooling	Fans: 4 Fan 8cm Fan(s) Liquid Cooling: Direct to Chip (D2C) Cold Plate
Power Supply	4x 6600W Redundant (2 + 2) Titanium Level (96%) power supplies
System BIOS	BIOS Type: AMI 32MB SPI Flash EEPROM
Management	SuperCloud Composer®; Supermicro Server Manager (SSM); Super Diagnostics Offline (SDO); Supermicro Thin-Agent Service (TAS); SuperServer Automation Assistant (SAA) New!
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: 227 lbs (103 kg) Net Weight: 191 lbs (87 kg) Available Color: Silver
Operating Environment	Operating Temperature: 10°C to 35°C (50°F to 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 X13DEG-D
Chassis	CSE-GP403TS-R000NFP