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: 5600MTs ECC DDR5;
- AIOM/OCP 3.0 Support
  8 PCIe Gen 5.0 X16 FHFL Slots;
- 8x 2.5" Hot-swap SATA drive bays
  4x2.5" 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: (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 GPU(s) Supported GPU: NVIDIA PCIe: H100, RTX A4000, RTX 6000 Ada Generation, L40S, 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 bay(s) • 4 front hot-swap 2.5" NVMe drive bay(s) • 8 front hot-swap 2.5" SATA drive bay(s) M.2: 2 M.2 NVMe slot(s) (M-key)
Expansion Slots	Default • 8 PCIe 5.0 x16 FHFL slot(s)
On-Board Devices	Chipset: Intel® C741 Network Connectivity: 2 RJ45 10GbE with Intel® X710-AT2
Input / Output	1 VGA port(s)

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(Front View – System)



Drive Bay	Description
0 – 3	4x 2.5" Hot-swap NVMe Drive Bays
16 – 23	8x 2.5" Hot-swap SATA3 Drive Bays

(Rear View – System)



	Slot Name	Slot Description
1	Slot 1	PCIe 5.0 x16 (FHFL; for Double-Width GPU)
2	Slot 2	PCIe 5.0 x16 (FHFL; for Double-Width GPU)
3	Slot 3	PCIe 5.0 x16 (FHFL; for Double-Width GPU)
4	Slot 4	PCIe 5.0 x16 (FHFL; for Double-Width GPU)

	Slot Name	Slot Description
9	Slot 1	PCIe 5.0 x16 (FHFL; for Double-Width GPU)
10	Slot 2	PCIe 5.0 x16 (FHFL; for Double-Width GPU)
11	Slot 3	PCIe 5.0 x16 (FHFL; for Double-Width GPU)
12	Slot 4	PCIe 5.0 x16 (FHFL; for Double-Width GPU)

CPU1 CPU2

System Cooling	Fans: 8 heavy duty fans with optimal fan speed control Liquid Cooling: Direct to Chip (D2C) Cold Plate (optional)
Power Supply	4x 2700W Redundant Titanium Level (96%) power supplies
System BIOS	BIOS Type: AMI 32MB SPI Flash EEPROM
Management	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!
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: 100 lbs (45.3 kg) Net Weight: 65.5 lbs (29.7 kg) 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)
Motherboard	**Super X13DEG-OA**
Chassis	**CSE-418G2TS-R5K40P**

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