

GPU SuperServer SYS-221GE-NR

2U Dual Processor (4th Gen Intel® Xeon) System with Support for 4 PCIe based GPUs

Key Applications

High Performance Computing, AI/Deep Learning Training, Large Language Model (LLM) Natural Language Processing,

Key Features

- Highest GPU communication using NVIDIA® NVLINK™; High density 2U GPU system with up to 4 NVIDIA® H100 PCIe GPUs; PCIe-based H100 NVL with NVLink Support;
- 32 DIMM slots; Up to 8TB: 32x 256 GB DRAM; Memory Type: 4800MHz ECC DDR5;
- 7 PCIe 5.0 x16 FHFL Slots;
- NVIDIA BlueField-3 Data Processing Unit Support for the most demanding accelerated computing workloads.;
- E1.S NVMe Storage Support;



Form Factor	2U Rackmount Enclosure: 438.4 x 88 x 900mm (17.25" x 3.46" x 35.43") Package: (22.5" x 11" x 45.5")
Processor	Dual Socket E (LGA-4677) 4th Gen Intel® Xeon® Scalable Processors Up to 56C/112T; Up to 112.5MB Cache per CPU Supports up to 350W TDP CPUs (Air Cooled)
GPU	Supported GPU: NVIDIA PCIe: H100, H100 NVL, L40S, L40, A100 CPU-GPU Interconnect: PCIe 5.0 x16 CPU-to-GPU Interconnect GPU-GPU Interconnect: NVIDIA® NVLink™ Bridge (optional)
System Memory	Memory Capacity: 32 DIMM slots Up to 2TB: 32x 256 GB DRAM Memory Type: 4800MHz ECC DDR5 DRAM
Drive Bays	8x E1.S hot-swap NVMe drive slots 2 M.2 NVMe OR 2 M.2 SATA3
Expansion Slots	7 PCIe 5.0 x16 FHFL slot(s)
On-Board Devices	Chipset: Intel® C741 Network Connectivity: 1x 10GbE BaseT with NVIDIA ConnectX®-7 or Bluefield®-3 DPU
Input / Output	Video: 1 VGA port(s)

System Cooling	Fans: 6 heavy duty fans with optimal fan speed control Air Shroud: 1 Air Shroud(s)
Power Supply	2000W Redundant Titanium Level power supplies
System BIOS	BIOS Type: AMI 32MB SPI Flash EEPROM
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: 3.46" (88 mm) Width: 17.25" (438.4 mm) Depth: 35.43" (900 mm) Gross Weight: 86.5 lbs (39.2 kg) Net Weight: 67.5 lbs (30.6 kg) Packaging: 11" x 22.5" x 45.5" 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 X13DEH
Chassis	CSE-GP201TS-R000NP