GPU SuperServer SYS-221GE-NR

2U Dual Processor (5th/4th Gen Intel® Xeon) System with Support for 4 PCIe based GPUs
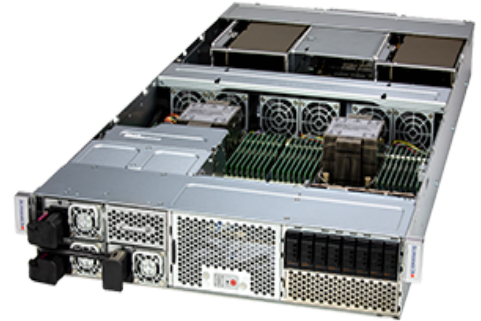
Key Applications

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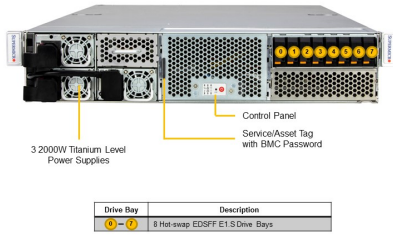
Key Features

- PCIe-based H100 NVL with NVLink Support; Highest GPU communication using NVIDIA® NVLINK™; High density 2U GPU system with up to 4 NVIDIA® H100 PCIe GPUs;
- 5th/4th Gen Intel® Xeon® Scalable processor support;
- 32DIMM slots Up to 4TB: 32x 256 GB DRAM Memory Type: 5600MTs ECC DDR5;
- 7 PCIe 5.0 x16 FHFL Slots;
- NVIDIA BlueField-3 Data Processing Unit Support for the most demanding accelerated computing workloads.;
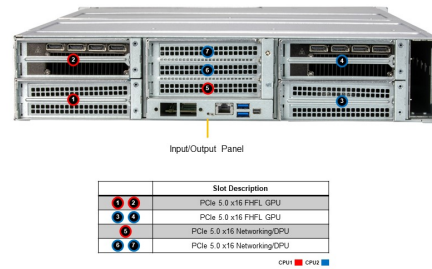- E1.S NVMe Storage Support;

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) 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 double-width GPU(s) Supported GPU: NVIDIA PCIe: H100 NVL,H100,L40S 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 (2DPC): Up to 4TB 5600MT/s ECC DDR5
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 1GbE BaseT
Input / Output	Video: 1 Mini DisplayPort(s)

(Front View – System)

(Rear View – System)

3 2000W Titanium Level
Power Supplies

Control Panel

Service/Asset Tag
with BMC Password

Input/Output Panel

Drive Bay	Description
0 – 7	8 Hot-swap EDSFF E1.S Drive Bays

Slot Description		
1 2	PCIe 5.0 x16 FHFL GPU
3 4	PCIe 5.0 x16 FHFL GPU
5	PCIe 5.0 x16 Networking/DPU
6 7	PCIe 5.0 x16 Networking/DPU

CPU1 ■ CPU2 ■

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