

GPU SuperServer SYS-221GE-FNR2

DP Intel 2U PCIe GPU system with up to 4 double-width PCIe GPU accelerator cards



Key Applications

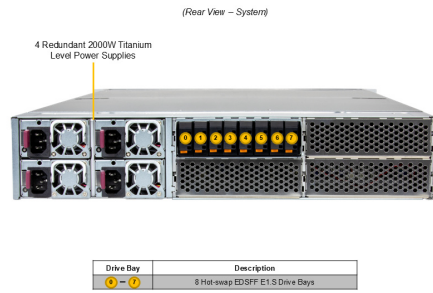
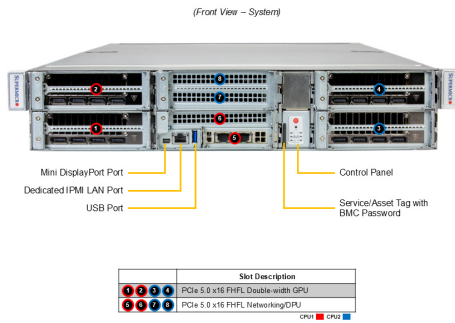
High Performance Computing, AI/Deep Learning Training, Large Language Model (LLM) Natural Language Processing,

Key Features

- Dual Socket E (LGA-4677) 5th Gen Intel® Xeon® / 4th Gen Intel® Xeon® Scalable processors up to 350W with air cooling;
- Support for up to 4 double-width PCIe GPU accelerator cards. The system can support up to 4 NVIDIA RTX PRO™ 6000 GPUs. With up to 35°C support.;
- Up to 32 DIMMs supporting up to 4TB DDR5-5600 in 1DPC or 8TB DDR5-4400 in 2DPC;
- Up to 4 PCIe 5.0 x16 FHFL double width + 4 AOC slots (1xPCIe 5.0 x16 HHFL and 3 PCIe 5.0 x 16 FHFL slots);
- Up to 8 front hot-swap E1.S NVMe drive bays;
- 4 Redundant 2000W Titanium Level power supplies;
- 2U Rackmount chassis with 35.43" (900mm) depth;



Form Factor	2U Rackmount Enclosure: 438.4 x 87 x 900mm (17.3" x 3.43" x 35.43") Package: 700 x 280 x 1200mm (27.56" x 11.02" x 47.24")
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 4 double-width GPUs Supported GPU: NVIDIA PCIe: NVIDIA RTX PRO™ 4500 Blackwell Server Edition, NVIDIA RTX PRO™ 6000 Blackwell Server Edition 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 Max Memory (2DPC): Up to 8TB 4400MT/s ECC DDR5
Drive Bays Configuration	Default: Total 8 bays <ul style="list-style-type: none"> • 8 front hot-swap E1.S NVMe drive bays M.2: 2 M.2 NVMe/SATA slots (M-key)
Expansion Slots	Default <ul style="list-style-type: none"> • 1 PCIe 5.0 x16 HHFL slot • 3 PCIe 5.0 x16 FHFL slots
On-Board Devices	Chipset: Intel® C741 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	LAN: 1 RJ45 1 GbE Dedicated BMC LAN port USB: 2 ports(rear) Video: 1 mini-DP port



System Cooling	Fans: Up to 8x 6cm heavy duty fans with optimal fan speed control
Power Supply	1x 2000W Redundant Titanium Level (96%) power supply
System BIOS	BIOS Type: AMI 32MB SPI Flash EEPROM
Management	Redfish API; Supermicro Server Manager (SSM); Supermicro Power Manager (SPM); Supermicro SuperDoctor® 5 (SD5); KVM with dedicated LAN ; IPMI 2.0; OOB Management Package (SFT-OOB-LIC); SMCIPMITool; IPMIView
PC Health Monitoring	CPU: 8+4 Phase-switching voltage regulator Monitors for CPU Cores, Chipset Voltages, Memory Fan: Fans with tachometer monitoring Pulse Width Modulated (PWM) fan connectors Status monitor for speed control Temperature: Monitoring for CPU and chassis environment Thermal Control for fan connectors
Dimensions and Weight	Weight: Gross Weight: 103 lbs (46.8 kg) Net Weight: 88 lbs (40 kg) Available Color: Silver
Operating Environment	Operating Temperature: 10°C to 35°C (50°F to 95°F) Non-operating Temperature: -30°C to 60°C (-22°F to 140°F) Operating Relative Humidity: 8% to 80% (max 21° DP; non-condensing) Non-operating Relative Humidity: 8% to 90% (max 38° DP; non-condensing)
Motherboard	Super X13DEH
Chassis	CSE-MG204-R000NDFP