

AI Training SuperServer SYS-822GA-NGR3

8U AI training platform with 8 Gaudi® 3 accelerators



Key Applications

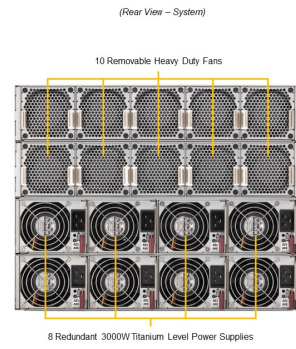
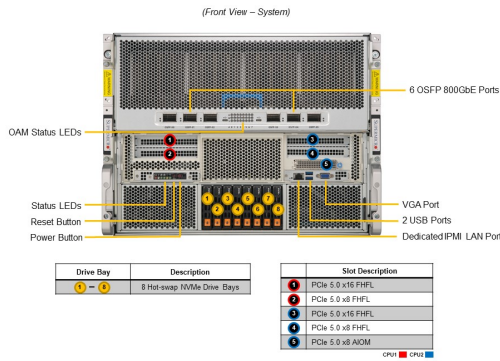
Industrial Automation, Drug Discovery, Climate and Weather Modeling, Massive-scale AI Training, LLMs & Multi-modal LLMs, Fraud Detection and Fintech,

Key Features

- Dual Intel® Xeon® 6900 series processors with P-cores;
- Support for up to 24 DIMMs DDR5-6400 and 8800MT/s MRDIMMs;
- Support for 8 Gaudi® 3 OAM GPUs;
- 6 On-board OSFP 800GbE ports;
- Up to 2 PCIe 5.0 x16 FHFL and 2 PCIe 5.0 x8 FHFL slots
Default AIOM dual port 10GBase-T;
- Up to 8 2.5" hot-swap NVMe Gen5 drive bays;
- 8x 3000W (4+4) redundant Titanium level power supplies;



Form Factor	8U Rackmount Enclosure: 447 x 356 x 800mm (17.6" x 13.8" x 33.2") Package: 1300 x 700 x 750mm (51" x 27.6" x 29.5")
Processor	Dual Socket BR (LGA-7529) Intel® Xeon® 6900 series processors with P-cores Up to 128C/256T; Up to 504MB Cache per CPU
GPU	Max GPU Count: Up to 8 onboard GPUs Supported GPU: Intel OAM: Gaudi 3 CPU-GPU Interconnect: PCIe Gen5 x16 GPU-GPU Interconnect: 24x 200Gbe (48 x 112Gbps) PAM4 SerDes links split
System Memory	Slot Count: 24 DIMM slots Max Memory (1DPC): Up to 6TB 6400MT/s ECC DDR5 RDIMM/LRDIMM Max Memory (1DPC): Up to 6TB 8800MT/s ECC DDR5 MRDIMM
Drive Bays Configuration	Default: Total 8 bays <ul style="list-style-type: none"> • 8 front hot-swap 2.5" PCIe 5.0 NVMe drive bays M.2: 2 M.2 PCIe 5.0 x2 NVMe slots (M-key 22110(default))
Expansion Slots	PCI-Express (PCIe) Configuration: Default <ul style="list-style-type: none"> • 2 PCIe 5.0 x16 FHFL slots • 2 PCIe 5.0 x8 FHFL slots • 1 PCIe 5.0 x4 AIOM slot (OCP 3.0 compatible) M.2: 2 M.2 PCIe 5.0 x2 NVMe slots (M-key 22110(default))
On-Board Devices	Chipset: System on Chip Network Connectivity: 6 OSFP 800GbE
Input / Output	LAN: 1 RJ45 1 GbE Dedicated BMC LAN port USB: 2 USB 3.0 Type-A ports Video: 1 VGA port



Drive Bay	Description
1 - 8	8 Hot-swap NVMe Drive Bays

Slot Description
1 PCIe 5.0 x16 FHFL
2 PCIe 5.0 x8 FHFL
3 PCIe 5.0 x16 FHFL
4 PCIe 5.0 x8 FHFL
5 PCIe 5.0 x8 AIOM

System Cooling	Fans: 10 Removable Heavy-Duty 80 x 80 x 80mm Fan(s)
Power Supply	8x 3000W Redundant 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 7+1 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: 282 lbs (128 kg) Net Weight: 308 lbs (140 kg) Available Color: Silver
Operating Environment	RoHS Compliant Operating Temperature: 10°C ~ 35°C (50°F ~ 95°F) Non-operating Temperature: -30°C to 60°C (-22°F to 140°F) Operating Relative Humidity: 8% to 80% (non-condensing) Non-operating Relative Humidity: 8% to 90% (non-condensing)
Motherboard	Super X14DBG-GD
Chassis	CSE-GP806TS-R000NPF