AI Training SuperServer SYS-822GA-NGR3

8U AI training platform with 8 Gaudi® 3 accelerators

More details here

Key Applications

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

Key Features

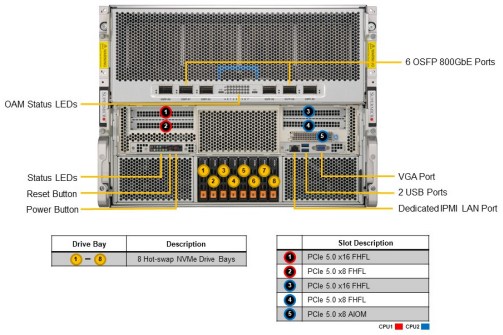
- Dual Intel® Xeon® 6900 series processors with P-cores;
- Support for up to 24 DIMMs DDR5-6400 and 8800MT/s MRDIMMs;
- Support for 8 Gaudi® 3 OAM GPUs;
- 6 On-board OSFP 800GbE ports;
- Up to 2 PCIe 5.0 x16 FHFL and 2 PCIe 5.0 x8 FHFL slots
  Default AIOM dual port 10GBase-T;
- Up to 8 2.5" hot-swap 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: 750 x 700 x 1300mm (29.5" x 27.6" x 51")
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: 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 • 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	Default • 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)
On-Board Devices	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

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(Front View – System)

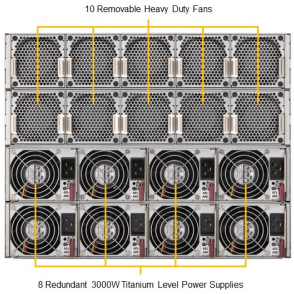


Drive Bay	Description
1 – 8	8 Hot-swap NVMe Drive Bays

	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

CPU1 CPU2

(Rear View – System)



System Cooling	Fans: Up to 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: 7+1 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: 282 lbs (128 kg) Net Weight: 308 lbs (140 kg) Available Color: Silver
Operating Environment	RoHS Compliant 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% (non-condensing) Non-operating Relative Humidity: 8% to 90% (non-condensing)
Motherboard	**Super X14DBG-GD**
Chassis	**CSE-GP806TS-R000NPF**

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