GPU SuperServer SYS-821GV-TNR

8U Dual Processor (5th/4th Gen Intel® Xeon) System with 8 Intel® Max Series 1550 GPU, Ponte Vecchio
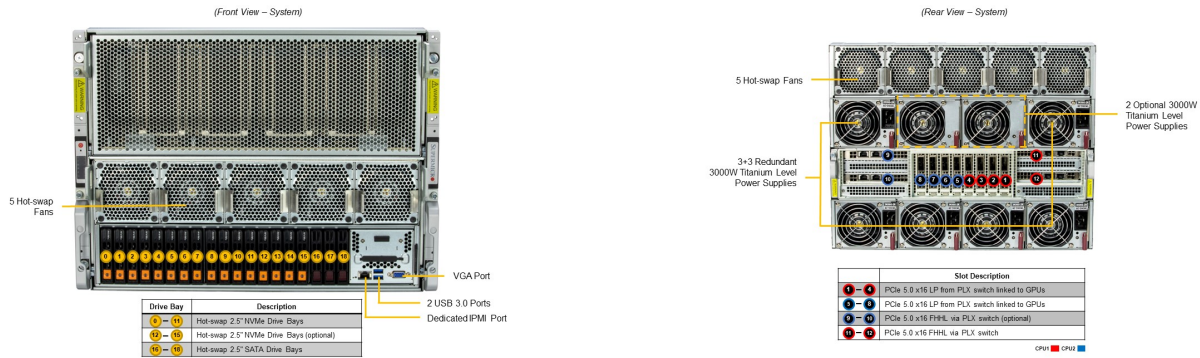
Key Applications

High Performance Computing, AI/Deep Learning Training, Industrial Automation, Business Intelligence & Analytics, Climate and Weather Modeling, Biomedical, Generative AI, Finance Services and Fraud Detection,

Key Features

- High Density Computing: 8 x Intel® Data Center GPU Max 1550 (600W) OAM; 5th/4th Gen Intel® Xeon® Scalable processors With PCIE Gen 5 Platform; Open Ecosystem with oneAPI; GPU Memory Bandwidth: 3276.8 GB/s; Performance: 6.7 petaFLOPS FP16/BF16; GPU to GPU Interconnect: 742 GB/s XeLink Scale Up Bandwidth; GPU Memory: 1TB HBM2;
- 32x DIMM slots, ECC DDR5 RDIMM up to 8TB and 5600MTS;

Form Factor	8U Rackmount Enclosure: 447 x 356 x 843mm (17.7" x 13.8" x 33.2") Package: 1300 x 700 x 750mm (51" x 27.6" x 29.5")
Processor	Dual Socket E (LGA-4677) 5th Gen Intel® Xeon®/4th Gen Intel® Xeon® Scalable processors Up to 64C/128T; Up to 128MB Cache per CPU
GPU	Max GPU Count: Up to 8 onboard GPU(s) Supported GPU: Intel OAM: Data Center GPU Max 1550 CPU-GPU Interconnect: PCIe 5.0 x16 CPU-to-GPU Interconnect GPU-GPU Interconnect: Intel® Xe Link Bridges
System Memory	Slot Count: 32 DIMM slots Max Memory (2DPC): Up to 8TB 5600MT/s ECC DDR5 RDIMM
Drive Bays	19x 2.5" hot-swap NVMe/SATA drive bays (16x 2.5" NVMe dedicated) 2 M.2 NVMe OR 2 M.2 SATA3 M-Key, 22110, 2280
Expansion Slots	8 PCIe 5.0 x16 LP slot(s) 4 PCIe 5.0 x16 FHHL slot(s)
On-Board Devices	Chipset: Intel® C741 Network Connectivity: 2x 10GbE BaseT with Intel® X550-AT2 (optional)
Input / Output	LAN: 1 RJ45 1GbE (Dedicated IPMI port) USB: 2 USB 3.2 Gen1 port(s) (2 Front_USB) Video: 1 VGA port(s)

(Front View – System)

5 Hot-swap
Fans

VGA Port

2 USB 3.0 Ports
Dedicated IPMI Port

Drive Bay	Description
0 — 11	Hot-swap 2.5" NVMe Drive Bays
12 — 15	Hot-swap 2.5" NVMe Drive Bays (optional)
16 — 18	Hot-swap 2.5" SATA Drive Bays

(Rear View – System)

5 Hot-swap Fans

3+3 Redundant
3000W Titanium Level
Power Supplies

2 Optional 3000W
Titanium Level
Power Supplies

	Slot Description
1 — 6	PCIe 5.0 x16 LP from PLX switch linked to GPUs
5 — 8	PCIe 5.0 x16 LP from PLX switch linked to GPUs
9 — 10	PCIe 5.0 x16 FHHL via PLX switch (optional)
11 — 12	PCIe 5.0 x16 FHHL via PLX switch

CPU1 ▢ CPU2 ▢

System Cooling	Fans: 10 Removable heavy-duty 8CM Fan(s)
Power Supply	6x 3000W Redundant Titanium Level power supplies
System BIOS	BIOS Type: AMI 32MB SPI Flash EEPROM

PC Health Monitoring	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
	CPU: 8+4 Phase-switching voltage regulator

Dimensions and Weight	Height: 13.8" (356 mm) Width: 17.7" (447 mm) Depth: 33.2" (843 mm) Gross Weight: 196.21 lbs (89 kg) Net Weight: 130.07 lbs (59 kg) Packaging: 27.6" (H) x 51" (W) x 29.5" (D) Available Color: Silver
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 X13DEG-PVC](#)
Chassis	CSE-GP801TS-R000NPF