

# GPU SuperServer SYS-821GV-TNR

DP Intel 8U System with Intel Data Center GPU Max 1550



More details here

## Key Applications

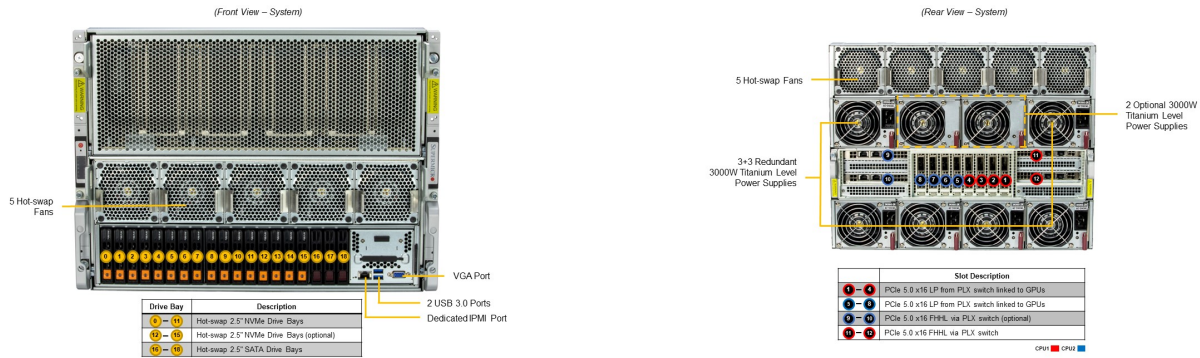
High Performance Computing, AI/Deep Learning Training, Industrial Automation, Business Intelligence & Analytics, Climate and Weather Modeling, Biomedical, Generative AI, Finance Services and Fraud Detection,

## Key Features

- High Density Computing: 8 x Intel® Data Center GPU Max 1550 (600W) OAM  
Performance: 6.7 petaFLOPS FP16/BF16  
GPU Memory: 1TB HBM2  
GPU Memory Bandwidth: 3276.8 GB/s  
GPU to GPU Interconnect: 742 GB/s XeLink Scale Up Bandwidth  
Open Ecosystem with oneAPI  
5th/4th Gen Intel® Xeon® Scalable processors With PCIe Gen 5 Platform;
- 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 Configuration	Default: Total 19 bay(s) <ul style="list-style-type: none"> <li>• 3 front hot-swap 2.5" SATA drive bay(s)</li> <li>• 16 front hot-swap 2.5" NVMe drive bay(s)</li> </ul> M.2: 2 M.2 NVMe/SATA slot(s) (M-key 2280/22110)
Expansion Slots	Default <ul style="list-style-type: none"> <li>• 8 PCIe 5.0 x16 LP slot(s)</li> <li>• 4 PCIe 5.0 x16 FHHL slot(s)</li> </ul>
On-Board Devices	Chipset: Intel® C741 Network Connectivity: 2 RJ45 10GbE with Intel® X550-AT2 (optional)
Input / Output	LAN: 1 RJ45 1 GbE Dedicated IPMI LAN port(s) USB: 2 USB 3.2 Gen1 port(s) (front) Video: 1 VGA port(s)



System Cooling	Fans: 10 Removable heavy-duty 8cm Fan(s)
Power Supply	6x 3000W Redundant Titanium Level (96%) power supplies
System BIOS	BIOS Type: AMI 32MB SPI Flash EEPROM
Management	SuperCloud Composer; Supermicro Server Manager (SSM); Supermicro Update Manager (SUM); Supermicro SuperDoctor® 5 (SD5); Super Diagnostics Offline (SDO); Supermicro Thin-Agent Service (TAS); SuperServer Automation Assistant (SAA) New!
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	Weight: Gross Weight: 196.21 lbs (89 kg) Net Weight: 130.07 lbs (59 kg) 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	<a href="#">Super X13DEG-PVC</a>
Chassis	<a href="#">CSE-GP801TS-R000NPF</a>