

# GPU SuperServer SYS-821GE-TNHR

DP Intel 8U System with NVIDIA HGX H100/H200 8-GPU and Rear I/O



[More details here](#)

## Key Applications

High Performance Computing, AI/Deep Learning Training, Industrial Automation, Retail, Healthcare, Conversational AI, Business Intelligence & Analytics, Drug Discovery, Climate and Weather Modeling, Finance & Economics,

## Key Features

- 5th/4th Gen Intel® Xeon® Scalable processor support;
- Support for NVIDIA HGX™ H100/H200 8-GPU;
- 32 DIMM slots Up to 8TB: 32x 256 GB DRAM Memory Type: 5600MTs ECC DDR5;
- 8 PCIe Gen 5.0 X16 LP  
2 PCIe Gen 5.0 X16 FHHL Slots, 2 PCIe Gen 5.0 X16 FHHL Slots (optional);
- Flexible networking options;
- 2 M.2 NVMe for boot drive only  
16x 2.5" Hot-swap NVMe drive bays (12x by default, 4x optional)  
3x 2.5" Hot-swap SATA drive bays  
Optional: 8x 2.5" Hot-swap SATA drive bays;
- 10 heavy duty fans with optimal fan speed control;
- Optional: 8x 3000W (4+4) Redundant Power Supplies, Titanium Level;  
6x 3000W (4+2) Redundant Power Supplies, Titanium Level;

### Form Factor

8U Rackmount  
Enclosure: 437 x 355.6 x 843.28mm (17.2" x 14" x 33.2")  
Package: 698 x 750 x 1300mm (27.5" x 29.5" x 51.2")

### 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: 8 onboard GPUs  
Supported GPU: NVIDIA SXM: HGX H100 8-GPU (80GB), HGX H200 8-GPU (141GB)  
CPU-GPU Interconnect: PCIe 5.0 x16 CPU-to-GPU Interconnect  
GPU-GPU Interconnect: NVIDIA® NVLink® with NVSwitch™

### System Memory

Slot Count: 32 DIMM slots  
Max Memory (1DPC): Up to 4TB 5600MT/s ECC DDR5 RDIMM  
Max Memory (2DPC): Up to 8TB 4400MT/s ECC DDR5 RDIMM

### Drive Bays Configuration

Default: Total 15 bays

- 12 front hot-swap 2.5" NVMe drive bays
- 3 front hot-swap 2.5" SATA drive bays

Option A: Total 19 bays

- 12 front hot-swap 2.5" NVMe drive bays
- 4 front hot-swap 2.5" NVMe\* drive bays
- 3 front hot-swap 2.5" SATA drive bays

(\*NVMe support may require additional storage controller and/or cables, please see the optional parts list for details)  
M.2: 2 M.2 NVMe slots (M-key)

### Expansion Slots

Default

- 8 PCIe 5.0 x16 LP slots
- 2 PCIe 5.0 x16 FHHL slots

Option A

- 2 PCIe 5.0 x16 FHHL slots

### On-Board Devices

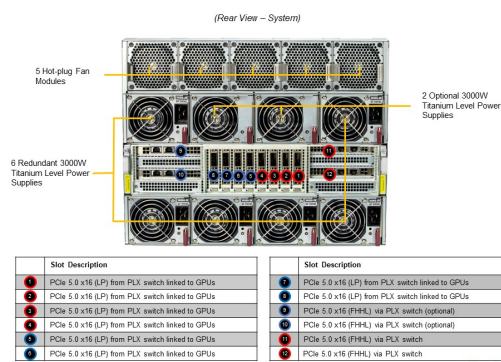
Chipset: Intel® C741  
Network Connectivity: 2 RJ45 10GbE with Intel® X550-AT2 (optional)  
2 SFP28 25GbE with Broadcom® BCM57414 (optional)  
2 RJ45 10GbE with Intel® X710-AT2 (optional)











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