

# 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

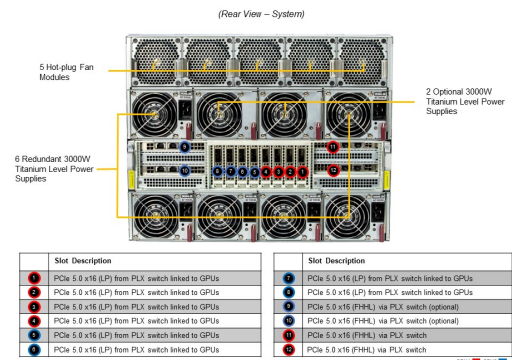
High Performance Computing, AI/Deep Learning Training, Industrial Automation, Retail, Healthcare, Conversational AI, Business Intelligence & Analytics, Drug Discovery, Climate and Weather Modeling, Finance & Economics,

## Key Features

- 5th/4th Gen Intel® Xeon® Scalable processor support;
- 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: Up to 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 <ul style="list-style-type: none"> <li>• 12 front hot-swap 2.5" NVMe drive bays</li> <li>• 3 front hot-swap 2.5" SATA drive bays</li> </ul> Option A: Total 19 bays <ul style="list-style-type: none"> <li>• 12 front hot-swap 2.5" NVMe drive bays</li> <li>• 4 front hot-swap 2.5" NVMe* drive bays</li> <li>• 3 front hot-swap 2.5" SATA drive bays</li> </ul> (*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 <ul style="list-style-type: none"> <li>• 8 PCIe 5.0 x16 LP slots</li> <li>• 2 PCIe 5.0 x16 FHHL slots</li> </ul>
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)
Input / Output	1 VGA port



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