

GPU SuperServer SYS-820GP-TNAR+

DP Intel 8U Universal GPU system with NVIDIA HGX A100 8-GPU



[More details here](#)

Key Applications

High Performance Computing, AI/Deep Learning Training,

Key Features

- 32 DIMM Slots; Up to 8TB DRAM; Up to 8TB Intel® Optane™ Persistent Memory (up to 12TB with DRAM); 3200/2933/2666 ECC DDR4 LRDIMM; RDIMM; Intel® Optane™ Persistent Memory 200 series;
- AIOM/OCP 3.0 Support
- 10 PCIe Gen 4.0 X16 LP Slots;
- Flexible networking options;
- 6x 2.5" Hot-swap NVMe/SATA/SAS drive bays
- 2 M.2 NVMe and SATA for boot drive only;
- 4 heavy duty fans with optimal fan speed control;
- 4x 3000W redundant Titanium level power supplies;



Form Factor	8U Rackmount Enclosure: 449 x 351 x 800mm (17.6" x 13.8" x 31.5") Package: 698 x 750 x 1300mm (27.5" x 29.5" x 51.2")
Processor	Dual Socket P+ (LGA-4189) 3rd Gen Intel® Xeon® Scalable processors
GPU	Max GPU Count: Up to 8 double-width GPUs CPU-GPU Interconnect: PCIe 4.0 x16 CPU-to-GPU Interconnect GPU-GPU Interconnect: NVIDIA® NVLink™ with NVSwitch™
System Memory	Slot Count: 32 DIMM slots
On-Board Devices	Chipset: Intel® C621A Network Connectivity: 2 RJ45 10GbE with Intel® X550-AT2 (optional)
Input / Output	1 VGA port



System Cooling	Fans: Up to 4 heavy duty fans with optimal fan speed control
Power Supply	1x 3000W Redundant Titanium Level (96%) power supply
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!
Dimensions and Weight	Weight: Gross Weight: 225 lbs (102.1 kg) Net Weight: 166 lbs (75.3 kg) Available Color: Black front & silver body
Operating Environment	Operating Temperature: 10°C to 35°C (50°F to 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	<u>Super X12DGO-6</u>
Chassis	CSE-GP802TS