

GPU SuperServer SYS-822GS-NB3RT-01-G2

DP Intel 8U System with NVIDIA HGX B300 8-GPU



Key Applications

Large-Scale AI Inference Serving

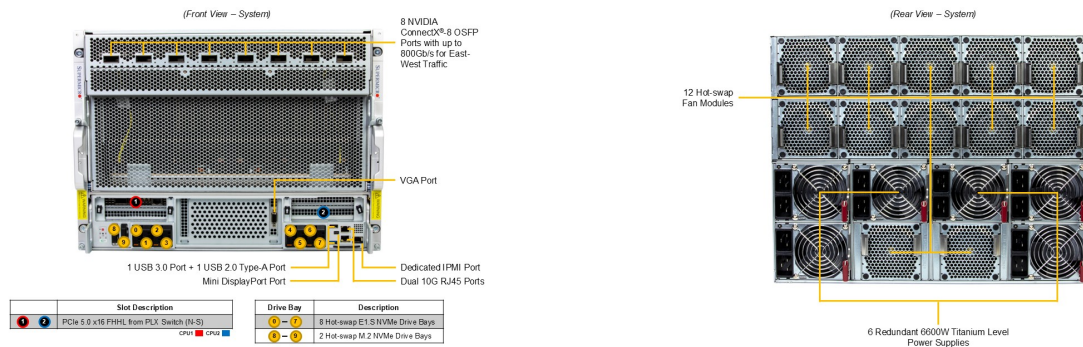
Gold Configuration Details

- CPU: 2x Intel® Xeon® 6768P (128C/2.4GHz)
- GPU: NVIDIA HGX™ B300 8-GPU
- Memory: 2TB DDR5-6400
- M.2: 1x 960GB M.2 NVMe SSD
- NIC: 8-port 800GbE/XDR800
- Power: Redundant 6600W Titanium Level



Base System Specs

Form Factor	8U Rackmount Enclosure: 449 x 356 x 950mm (17.6" x 13.8" x 37.4") Package: 730 x 670 x 1280mm (28.74" x 26.38" x 50.39")
Processor	Dual Socket E2 (LGA-4710) Intel® Xeon® 6700-series processors with P-cores Up to 86C/172T; Up to 336MB Cache per CPU
GPU	Max GPU Count: 8 onboard GPUs Supported GPU: NVIDIA SXM: HGX B300 8-GPU (288GB) GPU-GPU Interconnect: NVIDIA® NVLink™ with NVSwitch™
System Memory	Slot Count: 32 DIMM slots Max Memory (1DPC): Up to 4TB 6400MT/s ECC DDR5 RDIMM Max Memory (2DPC): Up to 8TB 5200MT/s ECC DDR5 RDIMM
Drive Bays Configuration	2 M.2 NVMe slots (M-key; RAID support via S3808N controller)
Input / Output	LAN: 8 OSFP 800 GbE LAN ports (NVIDIA ConnectX®-8 SuperNIC) 2 RJ45 10 GbE LAN ports (Intel® X710) USB: 1 USB 3.0 Type-A port(Front) 1 USB 2.0 Type-A port(Front) Video: 1 VGA port 1 mini-DP port



System Cooling	Fans: Up to 12 heavy duty fans with optimal fan speed control
Power Supply	6x 6600W Redundant (3 + 3) Titanium Level (96%) power supplies
System BIOS	BIOS Type: AMI 64MB UEFI
Management	SuperCloud Composer®; Supermicro Server Manager (SSM); Super Diagnostics Offline (SDO); Supermicro Thin-Agent Service (TAS); SuperServer Automation Assistant (SAA) New!
PC Health Monitoring	CPU: 8+4 Phase-switching voltage regulator Monitors for CPU Cores, Chipset Voltages, Memory FAN: Fans with tachometer monitoring Pulse Width Modulated (PWM) fan connectors Status monitor for speed control Temperature: Monitoring for CPU and chassis environment Thermal Control for fan connectors
Dimensions and Weight	Weight: Gross Weight: 302 lbs (137 kg) Net Weight: 263 lbs (119 kg) Available Color: Silver
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	Super X14DBG-LC
Chassis	CSE-GP807TS-R000NP