GPU SuperServer SYS-120GQ-TNRT

DP Intel System with 4 GPUs

Key Applications

Scientific Virtualization, High Performance Computing, Rendering, AI/Deep Learning Training,
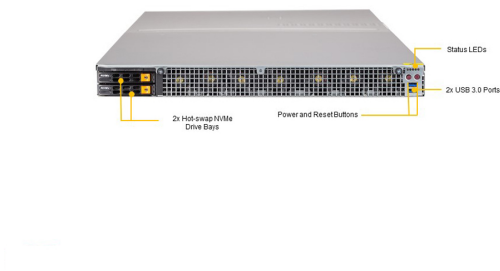
Key Features

- Dual Socket P+ (LGA-4189) 3rd Gen Intel® Xeon® Scalable Processors;
- Intel® C621A Chipset;
- 16 DIMM Slots; Up to 4TB DRAM; Up to 4TB Intel® Optane™ Persistent Memory (up to 6TB with DRAM) ; 3200/2933/2666 ECC DDR4 LRDIMM;RDIMM; Intel® Optane™ Persistent Memory 200 series;
- 6 PCIe Gen 4.0 x16 (4 FHFL & 2 LP);
- 2x 2.5" SATA Internal Fixed drive bays
  1 M.2 NVMe for boot drive only
  2x 2.5" NVMe/SATA Hot-swap drive bays;
- 9 counter rotating fans w/ Optimal Fan Speed Control;
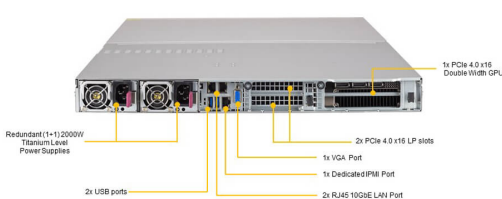- 2x 2000W redundant Titanium level power supplies;

Form Factor	1U Rackmount Enclosure: 437 x 43 x 894mm (17.2" x 1.7" x 35.2") Package: 609.6 x 203.2 x 1168.4mm (24" x 8" x 46")
Processor	Dual Socket P+ (LGA-4189) 3rd Gen Intel® Xeon® Scalable processors Up to 40C/80T; Up to 60MB Cache per CPU
GPU	Max GPU Count: Up to 4 double-width or 4 single-width GPUs Supported GPU: NVIDIA PCIe: T4, RTX A6000, RTX A5000, A40, A30, A16, A2, A100 CPU-GPU Interconnect: PCIe 4.0 x16 CPU-to-GPU Interconnect GPU-GPU Interconnect: PCIe
System Memory	Slot Count: 16 DIMM slots Max Memory (2DPC): Up to 4TB 3200MT/s ECC DDR4 RDIMM/LRDIMM Supports Intel® Optane™ persistent memory 200 series
Drive Bays Configuration	Default: Total 4 bays • 2 front hot-swap 2.5" NVMe drive bays • 2 internal fixed 3.5" SATA drive bays M.2: 1 M.2 NVMe/SATA slot (M-key)
Expansion Slots	Default • 4 PCIe 4.0 x16 FHFL slots • 2 PCIe 4.0 x16 LP slots
On-Board Devices	SATA: SATA (6Gbps) ; RAID 0/1/5/10 support Chipset: Intel® C621A Network Connectivity: 2 RJ45 10GbE
Input / Output	1 VGA port

(Front View – System)

(Rear View – System)

System Cooling	Fans: Up to 9 heavy duty fans with optimal fan speed control
Power Supply	1x 2000W 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!

PC Health Monitoring	CPU: Monitors for CPU Cores, Chipset Voltages, Memory
	     7 +1 Phase-switching voltage regulator
	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

Dimensions and Weight	Weight: Gross Weight: 58 lbs (26.31 kg) Net Weight: 45 lbs (20.4 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	**Super X12DGQ-R**
Chassis	**CSE-118GQE2TS-R2K05P**