GPU SuperServer SYS-120GQ-TNRT

1U Dual Processor (3rd Gen Intel® Xeon®) System with 4 PCIe GPUs
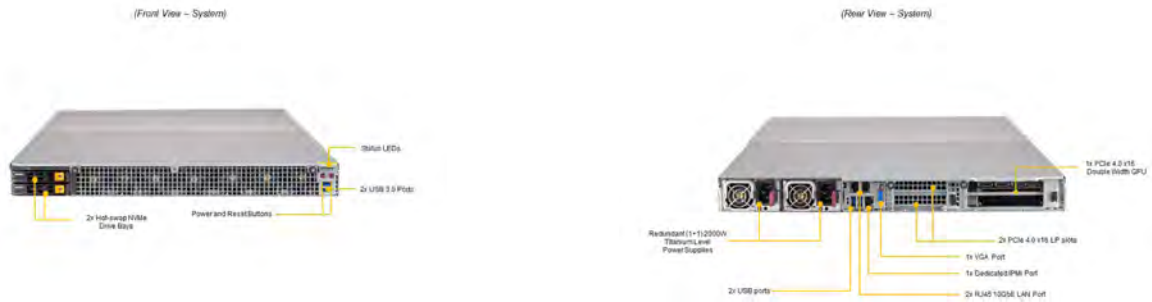
Key Applications

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 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	3rd Gen Intel® Xeon® Scalable processors Dual Socket LGA-4189 (Socket P+) supported TDP up to 235W; 3 UPI
GPU	Supported GPU: NVIDIA A100,A40,A30,A16,RTX-A6000,RTX-A5000 CPU-GPU Interconnect: PCIe 4.0 x16 CPU-to-GPU Interconnect GPU-GPU Interconnect: PCIe
System Memory	16 DIMM slots Up to 4TB ECC LRDIMM, DDR4-3200MHz Up to 4TB ECC RDIMM, DDR4-3200MHz
Drive Bays	4x 2.5" hot-swap NVMe/SATA/SAS drive bays (2x 2.5" NVMe dedicated) 1 M.2 NVMe OR 1 M.2 SATA3
Expansion Slots	4 PCIe 4.0 x16 FHFL slot(s) 2 PCIe 4.0 x16 LP slot(s)
On-Board Devices	SATA: SATA3 (6Gbps); RAID 0/1/5/10 support Chipset: Intel® C621A Network Connectivity: 2x 10GbE BaseT port(s) IPMI: Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
Input / Output	Video: 1 VGA port(s)

(Front View – System)

(Rear View – System)

System Cooling	9 heavy duty fan(s)
Power Supply	1U 2000W Redundant Titanium AC Power supply, 73.5x40x265mm, CRPS Dimension (W x H x L): 73.5 x 40 x 265 mm Output Type: 25 Pairs Gold Finger Connector
System BIOS	BIOS Type: AMI 32MB SPI Flash EEPROM
Management	SuperDoctor® 5; Watch Dog; NMI; SUM; KVM with dedicated LAN; SPM; Intel® Node Manager; SSM; IPMI 2.0; Redfish API; OOB Management Package (SFT-OOB-LIC)

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	Height: 1.7" (43 mm) Width: 17.2" (437 mm) Depth: 35.2" (894 mm) Gross Weight: 58 lbs (26.31 kg) Net Weight: 45 lbs (20.4 kg) Packaging: 8" (H) x 24" (W) x 46" (D) Available Color: Black Front & Silver Body
Operating Environment	Operating Temperature: 10°C ~ 35°C (50°F ~ 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