GPU SuperServer SYS-740GP-TNRT

DP Intel, Tower Workstation with 4 GPUs

Key Applications

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

Key Features
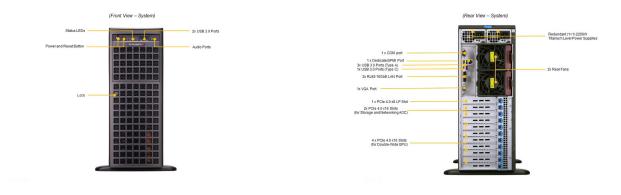
- Dual Socket P+ (LGA-4189) 3rd Gen Intel® Xeon® Scalable Processors;
- Intel® C621A Chipset;
- 16 DIMM Slots; Up to 4TB DRAM; Up to 6TB Intel® Optane™ Persistent Memory ; 3200/2933/2666 ECC DDR4 LRDIMM;RDIMM; Intel® Optane™ Persistent Memory 200 series;
- 4 PCIe 4.0 x16 (double-width) slots, 2 PCIe 4.0 x16 (single-width) slots, 1 PCIe 4.0 x8 LP;
- Total 8x 3.5" Hot-swap drive bays
  Up to 8 NVMe drives (4 NVMe drives supported by default)
  2 M.2 NVMe or SATA for boot drive only;
- 4 Removable heavy duty fans w/ Optimal Fan Speed Control;
- 2x 2200W redundant Titanium level power supplies;

Form Factor	Full-Tower Enclosure: 178 x 460 x 673mm (7" x 18.1" x 26.5") Package: 685.8 x 322.6 x 952.5mm (27" x 12.7" x 37.5")
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 6 single-width GPUs Supported GPU: NVIDIA PCIe: A40, RTX A6000, RTX A5000, RTX A4500, RTX A4000, A40, A30, A16, A100, A10 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 8 bays 　• 4 front hot-swap 3.5" SAS/SATA drive bays 　• 4 front hot-swap 3.5" NVMe/SAS/SATA drive bays M.2: 2 M.2 NVMe/SATA slots (M-key) Peripheral Bays: 3 5.25" peripheral bays
Expansion Slots	Default 　• 4 PCIe 4.0 x16 FHFL slots 　• 2 PCIe 4.0 x16 LP slots 　• 1 PCIe 4.0 x8 LP slot
On-Board Devices	SATA: SATA (6Gbps) ; RAID 0/1/5/10 support Chipset: Intel® C621A Network Connectivity: 2 RJ45 10GbE with Intel® X550-AT2
Input / Output	1 VGA port

(Front View – System)

Status LEDs
Power and Reset Button
Lock
2x USB 3.0 Ports
Audio Ports

(Rear View – System)

Redundant (1+1) 2200W
Titanium Level Power Supplies
1 x COM port
1 x Dedicated IPMI Port
3x USB 3.0 Ports (Type A)
1x USB 3.0 Ports (Type C)
2x RJ45 10GbE LAN Port
1x VGA Port
1 x PCIe 4.0 x8 LP Slot
2x PCIe 4.0 x16 Slots
(for Storage and Networking AOC)
4 x PCIe 4.0 x16 Slots
(for Double-Wide GPU)
2x Rear Fans

System Cooling	Fans: 4 heavy duty fans with optimal fan speed control
Power Supply	1x 2200W 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: 57 lbs (25.85 kg) Net Weight: 52.9 lbs (24 kg) Available Color: black
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 X12DPG-QT6**
Chassis	**CSE-747BTS-R2K20BP**