GPU SuperServer SYS-751GE-TNRT

High Performance Liquid-Cooled Tower/5U Rackmount AI GPU Workstation with Dual Processor (4th Gen Intel® Xeon®) Supporting up to 4 NVIDIA A100 PCIe 80GB GPUs at Noise Level Under 30dBA.

More details here

Key Applications

High Performance Computing, AI/Deep Learning Training,

Key Features

- This SKU won't be available until April 2023.;
- 4th Gen Intel® Xeon® Scalable processor support;
- Intel® C741 Chipset;
- 16 DIMM slots Up to 2TB: 16x 128 GB DRAM Memory Type: 4800MHz ECC DDR5;
- 4 double width PCIe 5.0X16/CXL Supports up to 4 double width GPUs and 3 single width PCIe 5.0X16/CXL;
- 8 front access 2.5" SATA/NVMe U.2 drive bays for easy access;
- Super Quiet operation with liquid Cooling system;
- 2x 2200W (1+1) Redundant Power Supplies, Titanium Level;
- 1 VGA, 7 USB 3.2 Gen1 (3 Rear in Type A, 1 Rear in Type C, 2 Front in Type A, 1 internal in Type A), 7.1 HD Audio; 2 NVMe M.2 slots;
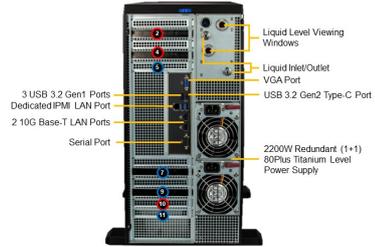
Form Factor	Tower or 5U Rackmount Enclosure: 454.7 x 218.4 x 701mm (17.9" x 8.6" x 27.6") Package: 388 x 655 x 956mm (15.3" x 25.8" x 37.6")
Processor	4th Gen Intel® Xeon® Scalable processors Dual Socket LGA-4677 (Socket E) supported 4 UPI (Certain CPU SKUs are conditionally supported, please contact Supermicro Technical Support for additional information about specialized system optimization, Supports up to 350W TDP CPUs (Liquid Cooled))
System Memory	16 DIMM slots Up to 2TB ECC RDIMM, DDR5-4800MHz Up to 256GB Intel® DCPMM, DDR5-4800MHz
Drive Bays	8x 2.5" hot-swap NVMe/SATA drive bays (8x 2.5" NVMe hybrid) 2 M.2 NVMe
Expansion Slots	7 PCIe 5.0 x16 FHFL slot(s)

On-Board Devices	SATA: SATA3 (6Gbps); RAID 0/1/5/10 support
	Chipset: Intel® C741
	Network Connectivity: 2x 10GbE BaseT with Intel® X550-AT2
	          1x 1GbE BaseT with ASPEED AST2600
	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	SATA: 2 SuperDOM port(s)
	     2 SlimSAS port(s)
	NVMe: 4 NVMe U.2
	LAN: 2 RJ45 10GbE
	     1 RJ45 1GbE (Dedicated IPMI port)
	USB: 2 USB 3.2 Gen1x2; port(s) (2 Front_USB)
	     3 USB 3.2 Gen1 port(s) (3 Rear_USB)
	     1 USB 3.2 Gen2x1 (Type C) port(s) (1 Rear_USB)
	Video: 1 VGA port(s)

(Front View – System)

Power Button & Status LEDs
7.1 Channel HD Audio
2 USB 3.2 Gen1 Ports

Drive Bay	Description
0 – 7	2.5" Hot-swap NVMe/SATA3 SSD drive bays (default; SAS3 supported with optional add-on card and cables)

(Rear View – System)

Liquid Level Viewing Windows
Liquid Inlet/Outlet
VGA Port
USB 3.2 Gen2 Type-C Port
3 USB 3.2 Gen1 Ports
Dedicated IPMI LAN Port
2 10G Base-T LAN Ports
Serial Port
2200W Redundant (1+1) 80Plus Titanium Level Power Supply

	Slot Description
2 4 5 7 9 10 11	PCIe 5.0 x16

CPU1 ■ CPU2 ■

System Cooling	3x 8, 12cm heavy duty fan(s)
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	Liquid Cooling: Direct to Chip (D2C) Cold Plate (optional)
Power Supply	2U 2200W Redundant Power Supply for Workstation
	Dimension (W x H x L): 106.5 x 82.1 x 203.5 mm
	Output Type: Backplanes (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
	8+4 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: 8.6" (218.4 mm)
	Width: 17.9" (454.7 mm)
	Depth: 27.6" (701 mm)
	Gross Weight: 121 lbs (55 kg)
	Net Weight: 88 lbs (44 kg)
	Packaging: 25.8" (H) x 15.3" (W) x 37.6" (D)
	Available Color: Black Front & Black Body
Operating Environment	Operating Temperature: 10°C ~ 25°C (50°F ~ 77°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 X13DEG-QT](#)
Chassis	CSE-759TS-R2K21BP