

GPU SuperServer SYS-751GE-TNRT-NV1

Liquid-cooled AI Development Platform with NVIDIA AI Enterprise



More details here

Key Applications

High Performance Computing, AI/Deep Learning Training, AI Development,

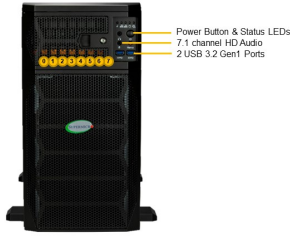
Key Features

- Closed-loop liquid cooling for CPUs and GPUs; Acoustically optimized for quiet operation;
- 4 liquid-cooled NVIDIA A100 GPUs installed;
- Dual 4th Gen Intel® Xeon® Scalable Processors, 6444Y (16 cores at 3.6Ghz) installed;
- Dual-port active-cooled NVIDIA Connect-X6 Dx 25G Network Adapter installed;
- NVIDIA AI Enterprise 3 years subscription and support;
- NVIDIA RTX A4000 GPU for display output installed;
- Ubuntu 22.04 LTS installed;



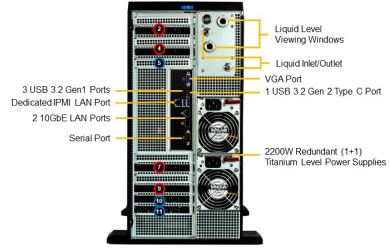
Form Factor	Tower or 5U Rackmount Enclosure: 454.7 x 218.4 x 701mm (17.9" x 8.6" x 27.6") Package: 388 x 655 x 956mm (15.3" x 25.8" x 37.6")
Processor	4th Gen Intel® Xeon® Scalable processors Dual Socket LGA-4677 (Socket E) supported 4 UPI (Dual 4th Gen Intel® Xeon® Scalable 6444Y (16 cores at 3.6Ghz) installed)
System Memory	16 DIMM slots
Drive Bays	8x 2.5" hot-swap NVMe/SATA drive bays (2 1.92TB NVMe Drives RAID 1 (OS), 4 1.92TB NVMe Drives (Data) installed) 2 M.2 NVMe
Expansion Slots	7 PCIe 5.0 x16 FHFL slot(s) Note: 4 NVIDIA Liquid-cooled A100, NVIDIA RTX A4000, NVIDIA Connect-X6 Dx 25G Network adapter installed
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 1x 25GbE SFP28 with NVIDIA Connect-X-6 Dx 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) 1 SFP28 25GbE 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)



Drive Bay	Description
1	Default: 8x 2.5" Hot-Swap N/Me/SATA3/SBS drive bays (SAS supported with optional add-on card and cables)

(Rear View – System)



Slot	Slot Description
1, 2, 3, 4	NVIDIA Liquid-Cooled A100 GPUs
5	PCIe 5.0 x16
11	NVIDIA RTX A4000 GPU (for display)
12	NVIDIA ConnectX-6 Dx 25G



System Cooling	3x 8, 12cm heavy duty fan(s) 3x 8, 12cm heavy duty fan(s)
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