

GPU SuperServer SYS-751GE-TNRT-NV1

DP liquid cooled AI development platform

Key Applications

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

Key Features

- Acoustically optimized for quiet operation Closed-loop liquid cooling for CPUs and GPUs;
- 4 liquid-cooled NVIDIA A100 GPUs with NVIDIA® NVLinkTM (2+2) 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;
- Supermicro Cloud Orchestrator AI software stack;
- Ubuntu 22.04 LTS installed;



TNRT		



DATASHEET

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	Dual Socket E (LGA-4677)			
	5th Gen Intel® Xeon® / 4th Gen Intel® Xeon® Scalable processors			
	16C/32T; 30MB Cache per CPU			
GPU	Max GPU Count: Up to 4 double-width GPUs			
	CPU-GPU Interconnect: PCIe 5.0 x16 CPU-to-GPU Interconnect			
	GPU-GPU Interconnect: NVIDIA® NVLink® Bridge (2+2)			
System Memory	Slot Count: 16 DIMM slots			
	Max Memory (2DPC): 512GB 4800MT/s ECC DDR5			
Drive Bays Configuration	Default: Total 8 bays			
	 8 front hot-swap 2.5" NVMe/SAS*/SATA drive bays 			
	(*SAS support may require additional storage controller and/or cables)			
	M.2: 2 M.2 NVMe slots (M-key)			
Expansion Slots	Default			
	• 7 PCIe 5.0 x16 FHFL slots			
On-Board Devices	SATA: SATA (6Gbps) ; RAID 0/1/5/10 support			
	Chipset: Intel® C741			
	Network Connectivity: 2 RJ45 10GbE with Intel® X550-AT2			
	1 RJ45 1GbE with ASPEED AST2600			
	1 SFP28 25GbE			
Input / Output	LAN: 1 RJ45 1 GbE Dedicated BMC LAN port			
	2 RJ45 10 GbE LAN ports			
	1 SFP28 25 GbE LAN port			
	USB: 2 USB 3.2 Gen1 ports(front)			
	3 USB 3.2 Gen1 ports(rear)			
	1 USB 3.2 Gen2 port(rear)			
	Video: 1 VGA port			
	DOM: 2 SATA DOM (Disk on Module) ports Audio: 7.1 HD Audio			
	Audio: 7.1 HD Audio Line Out			
	Mic in			



