TG679V3

Large Model Inference AI Server

TG679V3 is an 8-card GPU server with wide applications. It is based on the AMD SP5 processor platform, supports 9004/9005 series CPUs, and supports 8 four-fan graphics cards. It has the characteristics of excellent performance, strong scalability and high reliability. It is suitable for application scenarios such as artificial intelligence, large model reasoning, rendering, and cloud gaming.

Excellent Performance and High Cost Performance

- Supports 2 AMD EPYCTM 9004/9005 series processors, with a maximum TDP of 500W;
- Supports 8 triple-fan graphics cards, each card supports PCIe 5.0 x16, providing efficient heterogeneous computing power;
- CPU-GPU pass-through design, high efficiency and low latency, greatly improves data transmission efficiency compared to PCIe Switch architecture.

Native Support for Triple-Fan Graphics Cards

- Supports native three-fan GPU cards, with original quality assurance, avoiding the hidden dangers brought by turbo card modification while having a higher cost-effectiveness.

Flexible Configuration, Select on Demand

- Supports up to 11 PCIe 5.0 standard slots, with multiple PCIe configurations available;
- Optional 1 OCP 3.0 network card with multiple speeds available;
- Supports 8 3.5"/2.5" SAS/SATA hard drives and optionally supports 2/4 NVMe SSDs, taking into account both large-capacity and high-performance local storage.

Stable and Reliable Intelligent Management

- The key components of the system are all designed with redundancy and hot-swap, and support tool-free disassembly and assembly, which improves the efficiency of fault maintenance and the availability of the system.
- Integrated intelligent management chip, providing an open management platform, supporting multiple management protocols such as IPMI2.0, Redfish, and SNMP;
- It supports various management functions such as KVM, virtual media, key component status monitoring, abnormal alarm, etc., and has comprehensive remote system-level intelligent management capabilities.

Technical Specifications

Function	Specifications
Form	Standard 7U rack mount
CPU	Supports 2 AMD EPYC™ 9004/9005 series processors, maximum TDP of 500W
DIMM	Supports 24 DDR5 memory slots, 1DPC, up to 6400MT/s
RAID Card	Optional support for 12Gb/s SAS HBA or RAID card
GPU	Supports 8 GPUs (four-fan version, TDP 600W)
PCIe Expansion	Supports up to 11 standard PCIe 5.0 slots Optionally supports 1 OCP 3.0 network card, PCIe 5.0 x8, optional 4× 1GbE / 2× 10Gb SFP+ / 2×25Gb SFP28 or other standard OCP 3.0 network cards
Storage	Supports 8 3.5"/2.5" SAS/SATA hard drives (optionally supports 2/4 U.2 NVMe SSDs) 1 M.2 SSD, 2280&22110 size, supports PCIe 3.0 x4
I/O Interface	Front: 2 USB 3.0 ports, 1 VGA port Rear: 1 serial port, 2 USB 3.0 ports, 1 VGA port, 1 RJ45 management port
System Fan	Heat dissipation optimization design, 12 8056 high-speed fans, support hot swap and redundancy
PSU	Configurable 4/6 CRPS power modules, hot-swappable, 2+2/3+1/3+3 redundancy mode Optional 2000W/2700W/3200W/3600W optional platinum or titanium power modules
Management Functions	Integrated BMC management chip AST2600, supports IPMI2.0, Redfish, SOL, KVM, virtual media and other functions Provides 1 1Gbps RJ45 dedicated management port
Security Functions	Optional TPM security module, supports chassis cover intrusion detection, lock chassis cover (tool-free) Support BMC dual flash redundancy design
Chassis Dimension	Width 448mm x Height 306mm x Depth 886mm (924mm including mounting ears)
Temperature	Operating temperature: 5ºC - 35ºC Storage temperature: -40ºC - 65ºC
Humidity	Operating relative humidity: 8% to 90% (non-condensing) Storage relative humidity: 5% to 95% (non-condensing)
OS	Supports mainstream operating systems such as Microsoft Windows Server, Red Hat Enterprise Linux, CentOS, Ubuntu, etc.