

TG781V3

8 GRAPHICS CARDS GPU SERVER

TG781V3 is a versatile GPU server that supports the 5th/4th Gen Intel® Xeon® Scalable processors, supporting 8 three-fan graphics cards, with excellent performance, strong scalability, and high reliability, suitable for various application scenarios such as artificial intelligence, large model inference, graphics rendering, and cloud gaming.



EXCELLENT PERFORMANCE OF THE NEW PLATFORM

- Adopting Intel's latest processor platform, the CPU computing power, PCIe speed, and memory bandwidth are fully upgraded to fully unleash GPU computing power;
- Supports 8 three-fan graphics cards, each supporting PCIe 5.0 x16, providing efficient heterogeneous computing power;
- CPU-GPU direct design, efficient and low latency, significantly improves data transmission efficiency compared to PCIe Switch architecture.

SUPPORTING FOR THREE-FAN GRAPHICS CARDS NATIVELY

- Supports native three-fan GeForce GPU cards with factory quality assurance, avoiding potential risks caused by turbine card modifications while offering higher cost-effectiveness.

FLEXIBLE CONFIGURATION WITH ON-DEMAND SELECTION

- Supports up to 11 x PCIe 5.0 standard slots, with multiple PCIe configurations available for selection;
- Optional 1 x OCP 3.0 network card with multiple speeds available;
- Supports 8 x 3.5 "/2.5" SAS/SATA hard drives, with optional supporting for 2/4 NVMe SSDs, balancing large capacity and high-performance local storage.

STABLE, RELIABLE, AND INTELLIGENT MANAGEMENT

- The key components of the system are redundant, hot swap design, and Supports tool-free disassembly, improve the efficiency of fault maintenance, improve the availability of the system;
- Integrated intelligent management chip, providing open management platform, Supporting IPMI2.0, Redfish, SNMP and other management protocols;
- Supports various management functions such as remote KVM, virtual media, status monitoring of key components, and abnormal alarm, and realizes a comprehensive remote system-level intelligent management.

TECHNICAL SPECIFICATIONS

Feature	Specification parameters
Product form	Standard 7U Rackmount
CPU	Supports up to 2 Intel® Xeon® Scalable Processors (4th or 5th Generation), up to 350W
Memory	Supports up to 32 DDR5 DIMMs, up to 5600MHz, RDIMM / 3DS RDIMM
RAID card	Optional support for 12Gb/s SAS HBA and 12Gb/s SAS RAID cards
GPU	Supports up to 8 GeForce GPU cards (triple-fan version, TDP 450W); optional support for up to 10 GPUs
PCIe Expansion	Up to 11 standard PCIe 5.0 slots Optional support for 1 OCP 3.0 NIC, PCIe 5.0 x8, configurable as 4×1GbE / 2×10Gb SFP+ / 2×25Gb SFP28
Local Storage	Supports 8×3.5"/2.5" SAS/SATA drives (optional support for 2/4 U.2 NVMe SSDs) Supports 2 onboard M.2 (SATA 3.0 / PCIe 4.0 x4, 2280 & 22110)
I/O Ports	Front: 2×USB 3.0, 1×VGA Rear: 1×Serial, 2×USB 3.0, 1×VGA, 1×RJ45 Management
System Fans	Thermally optimized design with hot-swappable redundant fans
Power Supply	4×Platinum CRPS modules (2000W / 2700W), hot-swappable, supports 2+2 / 3+1 redundancy
Management Features	Integrated BMC (AST2600), supports IPMI 2.0, Redfish, SOL, KVM, virtual media, etc. Provides 1×1Gbps RJ45 dedicated management port
Security Features	Optional TPM/TCM security module, chassis intrusion detection, tool-less lockable top cover Supports dual BIOS/BMC flash redundancy
Chassis Dimensions	W448mm × H306mm × D886mm (including ears: 924mm)
Temperature	Operating: 5°C – 35°C Storage: -40°C – 65°C

Humidity	Operating Relative Humidity: 8% – 90% (non-condensing) Storage Relative Humidity: 5% – 95% (non-condensing)
Operating System Support	The operating system supports mainstream operating systems such as Microsoft Windows Server, Red Hat Enterprise Linux, CentOS, Ubuntu, etc

DATA CENTER SOLUTIONS BASED ON BUSINESS OBJECTIVES

- Maximize the value of your IT and enterprise solutions with a business-focused approach that helps reduce IT complexity, lower costs, and improve efficiency. While leveraging your existing technologies, we seamlessly integrate innovative, customized solutions designed to meet your specific needs. Based on your business applications, we deliver an efficient, agile, open, and intelligent end-to-end data center solution that simplifies IT, addresses business challenges, and continuously creates value for your organization. For more information, please contact your sales representative.

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