

## **TG781V2**

### 8 GRAPHICS CARDS GPU SERVER

The TG781V2 is a versatile 8-GPU server built on the AMD SP3 platform, supporting the entire range of Rome and Milan CPUs. It accommodates up to eight triple-fan GPUs and delivers exceptional performance, high scalability, and robust reliability. This server is ideal for a wide range of applications, including artificial intelligence, large-scale model inference, rendering, and cloud gaming.



#### **EXCEPTIONAL PERFORMANCE & HIGH COST-EFFECTIVENESS**

- Supports 2 x AMD EPYC<sup>™</sup> 7002/7003 series processors, with up to 128 cores.
- Supports 8 triple-fan GPUs (TDP up to 450W each); each card utilizes PCIe 4.0 x16, delivering efficient heterogeneous computing power.
- CPU-GPU direct-connect design ensures high efficiency and low latency, significantly improving data transfer efficiency compared to PCIe Switch architectures.

#### NATIVE SUPPORT FOR TRIPLE-FAN GPUS

• Supports native triple-fan GPU cards with original manufacturer quality assurance, avoiding the risks associated with modified blower-style cards while offering higher cost-effectiveness.

#### FLEXIBLE CONFIGURATION & ON-DEMAND SELECTION

- Supports up to 11 standard PCIe 4.0 slots; multiple PCIe configurations available.
- Optional 1 x OCP 3.0 NIC (PCIe 4.0 x8) with multiple speed options (4x1GbE / 2x10Gb SFP+ / 2x25Gb SFP28).
- Supports 8 x 3.5"/2.5" SAS/SATA HDDs/SSDs; optionally supports 2/4 x U.2 NVMe SSDs, balancing high capacity and high-performance local storage.
- Includes 1 x onboard M.2 SSD slot (2280/22110 size, PCIe 2.0 x1).

#### STABLE, RELIABLE & INTELLIGENT MANAGEMENT

- Key system components feature redundant and hot-swappable designs, complemented by tool-less maintenance, enhancing serviceability and system availability.
- Integrated BMC management chip (AST2600) provides an open management platform supporting IPMI 2.0, SOL, KVM, Virtual Media, and other functions.
- Comprehensive remote management capabilities including KVM over IP, Virtual Media, status monitoring of key components, and anomaly alerts.
- Optional TPM/TCM security module and chassis intrusion detection.



## **TECHNICAL SPECIFICATIONS**

Category	Specification Details
Form Factor	Standard 7U Rackmount
CPU	2 x AMD EPYC™ 7002 (Rome) / 7003 (Milan) Series, TDP up to 280W
Memory	32 x DDR4 DIMM slots, 3200MHz, supports RDIMM/LRDIMM
GPU Support	8 x Triple-fan GPUs, TDP up to 450W per card, PCIe 4.0 x16
PCIe Expansion	Up to 11 x standard PCIe 4.0 slots
OCP NIC	Optional OCP 3.0 NIC (PCIe 4.0 x8), options: 4x1GbE / 2x10Gb SFP+ / 2x25Gb SFP28
Storage Bays	8 x 3.5"/2.5" SAS/SATA bays
Onboard Storage	1 x M.2 SSD slot (2280/22110, PCIe 2.0 x1)
RAID Controller	Optional 12Gb/s SAS HBA or 12Gb/s SAS RAID card
I/O Ports Front	2 x USB 3.0, 1 x VGA
I/O Ports Rear	1 x Serial, 2 x USB 3.0, 1 x VGA, 1 x RJ45 Dedicated Management (1Gbps)
System Cooling	Hot-swappable, redundant fans with optimized thermal design
Power Supply	4 x Hot-swappable Platinum-level CRPS power modules (2000W or 2700W), supports N+2 or N+1 redundancy (e.g., 2+2, 3+1)
Management	Integrated BMC (AST2600), supports IPMI 2.0, SOL, KVM, Virtual Media. 1x dedicated 1Gbps RJ45 management port.
Security	Optional TPM/TCM module; Chassis intrusion detection; Lockable, tool-less chassis cover
Dimensions (WxHxD)	448mm x 306mm (7U) x 886mm (924mm including mounting ears)
Operating Temp	5°C to 35°C

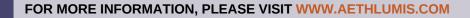


Operating Humidity	8% to 90% RH (non-condensing)
OS Support	Microsoft Windows Server, Red Hat Enterprise Linux, CentOS, Ubuntu, and other mainstream operating systems.

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