

TF20V3

FLAGSHIP DUAL-PROCESSOR UNIVERSAL SERVER

AETHLUMIS TF20V3 is a versatile 2U dual-processor general-purpose server equipped with AMD's latest EPYC™ 9004 series processor. It adopts a modular design approach and can be flexibly configured according to business needs. It has excellent computing performance and rich scalability, achieving excellent cost-effectiveness and energy consumption ratio. It is suitable for applications such as cloud computing, virtualization, high-performance computing, and artificial intelligence.



ULTIMATE PERFORMANCE MEETS CRITICAL APPLICATION REQUIREMENTS

- Supports 2 x AMD EPYC™ 9004 series processor has a maximum of 128 cores per CPU, with a 100% increase in the number of cores compared to the previous generation;
- 4 xGMI interconnect links, fully utilizing CPU computing power;
- Supports 24 x DDR5 DIMMs with a maximum frequency of 4800MT/s, providing excellent memory bandwidth and capacity.

FLEXIBLE CONFIGURATION AND ON-DEMAND SELECTION

- Decoupling design of hardware modules enables flexible configuration of computing, storage, and networking to meet different business needs;
- Flexible storage configuration options, supporting up to 24 x U.2 NVMe devices;
- Supports up to 10 x standard PCIe expansion slots;
- Supports OCP NIC 3.0 network expansion, with optional expansion of 4 × 1GbE/2 × 10Gb SFP+/4 × 10Gb SFP+/2 × 25Gb SFP28 network configurations.

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

Function	Specification parameters
Product form	Standard 2U rackmount
CPU	Supports 2 x AMD EPYC™ 9004 series processor, single CPU supports up to 128 physical cores, maximum power 400W 4 xGMI links interconnection
Memory	24 x DDR5 DIMMs, up to 4800MT/s, RDIMM/3DS RDIMM
Storage controller	Optional supports for 12Gb/s SAS HBA and 12Gb/s SAS RAID card
Local Storage	Front: supports up to 12 x 3.5 "/24 x 2.5" hard drives Rear: supports up to 4 x 2.5" hard drives Built in: supports 2 x M.2 (2280/22110, PCIe 3.0x4) Supports up to 24 x U.2 NVMe
PCIe extension	Supports up to 10 x standard PCIe expansion slots
GPU	Supports up to 2 x FHFL-DW GPUs Supports up to 4 x FHFL-SW GPUs Supports up to 8 x HHHL-SW GPUs
Network	1 x 1Gb RJ45 dedicated management network port Optional supports for 1 x OCP 3.0 network card, NCSI, optional 4 x 1GbE/2 x 10Gb SFP+/4 x 10Gb SFP+/2 x 25Gb SFP28 or other standard compliant cards
I/O Ports	Front: 1 x VGA, 2 x USB 3.0 Rear: 1 x VGA, 2 x USB 3.0, 1 x RJ45 management network port, 1 x COM
Management function	Integrated BMC management chip AST2600 for management functions, supporting IPMI2.0 Redfish 、 SOL、 KVM、 Virtual media and other functions
Safety function	Optional TPM security module, chassis open cover intrusion detection, locked chassis cover (tool free), BMC dual- flash redundancy
Power supply	It can be configured with 2 x power modules, supporting 1+1 redundancy and hot plugging Optional 800W/1300W/1600W/2000W/2400W high-efficiency platinum power supply Supports 220V AC/240V DC
Fan	Four hot swappable fans, supporting N+1 redundancy, intelligent speed regulation, and abnormal alarm

Chassis size	W 448mmx H 87mmx D 763mm (including 783mm hanging ears)
Temperature	Working temperature: 5 °C -35 °C Storage temperature: -40 °C -65 °C
Humidity	Working relative humidity: 8% to 90% (non-condensing) Storage relative humidity: 5% to 95% (non-condensing)
OS	The operating system supports mainstream operating systems such as Microsoft Windows Server、Red Hat Enterprise Linux、SUSE Linux Enterprise Server、Ubuntu、Oracle Linux、VMware ESXi、Citrix XenServer, etc Please consult the sales staff for the specific version

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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