

TF21V2

FLAGSHIP RACK SERVER

AETHLUMIS TF21V2 is a 2U dual-processor rack server, using the 3rd generation of Intel® Xeon® Scalable Processors (Ice Lake-SP), to achieve a comprehensive breakthrough in computing, storage, networking and other performance. Based on the innovative modular design concept and technology of server hardware, it makes full use of storage and network resources, can be flexibly configured according to business needs, and achieves excellent cost performance and energy consumption ratio, which can be widely used in Internet, cloud computing, database and big data applications.



EXTREME PERFORMANCE, MEETS CRITICAL APPLICATION REQUIREMENTS

- Supports 3rd Gen Intel® Xeon® Scalable Processors, adopts 10nm process and Sunny Cove new microarchitecture;
- Support up to 3UPI interconnection, bus bandwidth up to 11.2GT/s;
- Support 8 memory channels per CPU, up to 32x DDR4 memory, memory frequency up to 3200MHz
- Supports PCIe 4.0, and the number of PCIe lanes is increased by 33% compared with the previous generation, which greatly improves the scalability of the system.

HIGH SCALABILITY, FLEXIBLE CONFIGURATION

- Decoupler design of hardware modules enables flexible configuration of computing, storage and network to meet different business requirements
- Supports up to 20x 3.5" hard disks or 39x 2.5" hard disks;
- Supports up to 10x PCIe 4.0 expansion slots, and supports up to 6x PCIe FHFL devices;
- Supports OCP3.0 NIC, optional extension 4x1GbE / 2x10Gb SFP+/ 4x10Gb SFP+/ 2x25Gb SFP28 network configuration.

STABLE, RELIABLE, INTELLIGENT MANAGEMENT

- The key components of the system adopt redundant and hot-swap design, support tool-free disassembly and assembly, improve maintenance efficiency and system availability;
- Integrated intelligent management chip, provides an open management platform, supports IPMI2.0, Redfish, SNMP and other management protocols;
- Support various management functions such as remote KVM, virtual media, key component status monitoring, abnormal alarm, etc., realizing comprehensive remote system intelligent management;

TECHNICAL SPECIFICATIONS

Item	Specifications
CPU	Up to two 3rd Gen Intel® Xeon® Scalable Processors (8300/6300/5300/4300), TDP up to 270W
Chipset	Intel®C621A
Memory	32x DDR4 memory slots, a total of 16 channels Support up to 16x Intel® Optane™ durable memory 200 series, up to 3200MT/s RDIMM/LRDIMM/Intel Optane DC Persistent Memory Single capacity 8GB, 16GB, 32GB, 64GB, 128GB, 256GB, 512GB Up to 12.0TB system memory (needs to be paired with a specific CPU model and Intel DCPMM)
Controller	Onboard integrated 6Gb/s SATA controller, supports RAID 0/1/10/5 Optional 12Gb/s SAS HBA card and SAS RAID card based on standard PCIe slot
Storage	Front: up to 12x 3.5"(optional 8 NVME) or 25x 2.5" HDD Rear: up to 4x 3.5"+4x 2.5" hard disks or 10x 2.5" hard disks Built-in: 4x 3.5" hard disks (compatible with 2.5" disks) Support 2x M.2(2280, PCIe 3.0x2), optional support 1x SD module (support RAID1 double Micro SD) Up to 24x NVME U.2
PCIe Slots	Up to 10x PCIe slots
GPU	Up to 3x FHFLDW GPU cards or 8x HHHLSW GPU cards
Network	1x 1GbE RJ45 dedicated management network port, optional 4 × 1GbE / 2 × 10Gb SFP+/ 4 × 10Gb SFP+/ 2 × 25Gb SFP28 OCP network card
I/O Ports	Front: 1x VGA, 2x USB3.0, 1x LCD MiniUSB Rear: 1x VGA, 2x USB3.0, 1x RJ45 management network port, 1x COM, 1x OCP3.0 NIC slot
Management	Integrated BMC management chip, supporting IPMI2.0, Redfish, SOL, KVM, virtual media and other functions Optional LCD management module
Security	Optional TPM/TCM, chassis intrusion detection, lockable cover
Power Supply	2x hot-swap/redundant: 800W/1300W/1600W/2000W 80 PLUS Platinum; Optional 240V DC/336V DC/-48V DC 80 PLUS Platinum
Power Supply	2x hot-swap/redundant: 550W/800W/1300W/1600W/2000W 80 PLUS Platinum; Optional 240V DC/336V DC/-48V DC 80 PLUS Platinum

System Cooling	4x hot-swap fan modules, support N+1 redundancy, support intelligent speed regulation and abnormal alarm
Dimensions	2U, width 447mm × height 87mm × depth 783mm (without panel 763mm)
Operating Environment	Standard working temperature: 5°C to 35°C (without direct sunlight) Extended operating temperature: 5°C to 40°C (limited configurations are met) Transport storage temperature: -40°C to 65°C
Operating Humidity	0% - 90%
Operating Systems	Microsoft Windows Server、Microsoft Hyper-V Server、Red Hat Enterprise Linux、SUSE Linux Enterprise Server、CentOS、Ubuntu、Fedora、Solaris、Oracle Linux、FreeBSD、VMware ESXi、Citrix XenServer 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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