

TS250V3

FLAGSHIP STORAGE SERVER

AETHLUMIS TS250V3 is a 4U dual-socket storage server built on 4th or 5th Gen Intel® Xeon® Scalable Processors. It boasts massive storage capacity, exceptional computing performance, and rich expansion capabilities, achieving an excellent balance of performance, cost, and energy efficiency. It can be elastically configured according to business needs and is widely applicable for Big Data, Cloud Storage, Distributed Storage, Warm Storage, Cold Storage, and other applications.



EXTREME PERFORMANCE FOR CRITICAL APPLICATION NEEDS

- Supports 2 x 4th or 5th Gen Intel® Xeon® Scalable Processors, utilizing a new microarchitecture core for powerful computational performance.
- Supports 32 x DDR5 memory modules with frequencies up to 4800MHz, increasing memory bandwidth by 75%.
- Supports PCIe 5.0, doubling bandwidth and significantly enhancing system expansion capabilities.

ULTRA-HIGH DENSITY MASS STORAGE

- Supports up to 36 x 3.5-inch hard drives, easily meeting the demands of massive storage applications.
- Supports 4 x U.2 NVMe SSDs, providing ultra-high storage I/O performance to meet tiered storage requirements.

HIGH EXPANDABILITY & FLEXIBLE CONFIGURATION

- Hardware module decoupling design with multiple storage configurations and I/O expansion modules allows flexible configuration based on business needs.
- Supports 8 x standard PCIe 4.0 slots, providing highly reliable I/O expansion capabilities.

STABLE, RELIABLE & INTELLIGENT MANAGEMENT

- Key system components feature redundant and hot-swappable designs, complemented by tool-less maintenance, enhancing fault recovery efficiency and system availability.
- Integrated intelligent management chip provides an open management platform supporting multiple protocols like IPMI 2.0, Redfish, and SNMP.
- Supports various remote management functions including KVM, Virtual Media, status monitoring of key components, and anomaly alerts, enabling comprehensive remote system-level intelligent management.

TECHNICAL SPECIFICATIONS

Feature	Specification
Processors	1/2 x 4th or 5th Gen Intel® Xeon® Scalable Processors, TDP up to 385W
Chipset	Intel C741
Memory	32 x DDR5 DIMM slots, 16 channels, up to 5600MHz Supports RDIMM, 3DS RDIMM, maximum capacity 8TB
Storage Controller	Integrated 6Gb/s SATA controller; Optional 12Gb/s SAS HBA or 12Gb/s SAS RAID controller
Local Storage	Front: Up to 24 x 3.5" drive bays Rear: Up to 12 x 3.5" + 6 x 2.5" drive bays Supports 2 x M.2 (2280/22110, PCIe 4.0 x4)
PCIe Expansion	Supports 10 x standard PCIe slots (Note: Page 1 mentions 8 x PCIe 4.0 slots; this table lists 10 total PCIe slots. Clarification might be needed.)
GPU Support	Supports up to 2 x double-width GPUs or 8 x single-width GPUs
Network	1 x 1Gb RJ45 dedicated management port; Optional OCP NIC (4x1GbE / 2x10Gb SFP+ / 4x10Gb SFP+ / 2x25Gb SFP28)
I/O Ports	Front: 1 x VGA, 2 x USB 3.0, 1 x LCD Mini USB Rear: 1 x VGA, 2 x USB 3.0, 1 x RJ45 management port, 1 x COM, 1 x standard OCP NIC 3.0 slot
Management	Integrated BMC, supports IPMI 2.0, Redfish, SOL, KVM, Virtual Media, etc. Provides 1 x 1Gbps RJ45 dedicated management port. Optional LCD management module.
Security	Optional TPM/TCM security module; Chassis intrusion detection; Lockable chassis cover
Power Supply	Configurable with 2 power modules, supports 1+1 redundancy, hot-pluggable. Input options: 220V AC / 240V DC / 336V DC / -48V DC Options: 1300W / 1600W high-efficiency Platinum power supplies
Cooling	6 x hot-pluggable fan modules, support N+1 redundancy, intelligent speed control, and anomaly alerts
Chassis Dimensions	4U Rackmount, Width 448mm x Height 175mm x Depth 778mm (758mm excluding mounting ears)

Operating Temp.	5°C to 35°C
Operating Humidity	8% to 90% RH
OS Support	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 sales for specific version support)

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.

FOR MORE INFORMATION, PLEASE VISIT WWW.AETHLUMIS.COM

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