

# TS250V2

## FLAGSHIP STORAGE SERVER

AETHLUMIS TS250V2 is a flagship 4U dual-socket storage server utilizing Intel Xeon Scalable Processors (Ice Lake-SP). It features an ultra-high-density storage configuration, 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 cloud storage, distributed storage, warm storage, cold storage, and other applications.



### EXTREME PERFORMANCE FOR CRITICAL APPLICATION NEEDS

- Supports Intel 3rd Gen Xeon Scalable Processors, built on the 10nm process and the new Sunny Cove microarchitecture, delivering powerful performance.
- Supports 32 DDR4 memory modules with speeds up to 3200MHz, significantly increasing memory bandwidth.

### FULTRA-HIGH DENSITY MASS STORAGE

- Supports up to 44 x 3.5-inch hard drives, providing massive storage space to easily meet the demands of large-scale storage applications.
- Supports 4 x PCIe 4.0 U.2 NVMe SSDs, delivering 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 up to 10 standard PCIe 4.0 slots, capable of expanding up to 6 full-height, full-length, single-width PCIe devices, providing highly available I/O expansion space.
- Supports OCP NIC 3.0 network expansion, with optional configurations including 4x1GbE / 2x10Gb SFP+ / 4x10Gb SFP+ / 2x25Gb SFP28.

### 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 Details                                                                                                                                                                                                              |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Processors         | 1/2 x Intel® 3rd Gen Xeon® Scalable Processors (Ice Lake) (8300/6300/5300/4300 series), TDP up to 270W                                                                                                                             |
| Chipset            | Intel C621A                                                                                                                                                                                                                        |
| Memory             | 32 x DDR4 DIMM slots, 16 channels, up to 3200MHz                                                                                                                                                                                   |
| 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<br>Internal: Up to 4 x 3.5" drive bays<br>Rear: Up to 16 x 3.5" + 2 x 2.5" drive bays<br>Supports 2 x M.2 (2280, PCIe 3.0 x2); Optional support for 1 x SD module (supports RAID1 dual Micro SD) |
| PCIe Expansion     | Up to 10 x PCIe 4.0 expansion slots                                                                                                                                                                                                |
| GPU Support        | Supports up to 2 x full-height, full-length, double-width GPUs or 8 x half-height, half-length, 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<br>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.<br>Options: 800W / 1300W / 1600W / 2000W high-efficiency Platinum AC/DC power supplies (220V AC / 240V DC / 336V DC / -48V DC input options available). |
| 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 (Please consult TTYI sales for details)                                                                                                                                                                                                           |
| Operating Humidity | 5% 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.<br><br>(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.

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