

# TU628V4



TU628V4 is a high-end general-purpose server with a wide range of uses. It is based on Intel's new generation Birch Stream-SP processor platform and has been fully upgraded in terms of computing performance, storage capacity, and expansion capabilities. The product adopts a modular design, supports a wide range of optional specifications and powerful expansion capabilities, and can be flexibly configured according to business needs, meeting the needs of a wide range of application scenarios such as virtualization, cloud computing, databases, and artificial intelligence.

## Ultimate performance to meet critical application requirements

- Supports 2 Intel® Xeon® 6 processors, with a single CPU having up to 144 cores, providing powerful computing performance;
- Supports 32 DDR5 memory modules with a maximum frequency of 8000MHz and a memory bandwidth increase of 42%;
- Full support for PCIe 5.0 greatly improves system I/O throughput and gives full play to the performance of the new platform.

## Flexible configuration and extreme expansion

- The hardware module decoupling design enables flexible configuration of computing, storage, and network to meet the needs of differentiated scenarios;
- Flexible selection of 3.5-inch, 2.5-inch, E3.S and other form factors of hard disk modules, supporting up to 24 U.2 NVMe and up to 32 E3.S NVMe;
- Flexible selection of PCIe expansion slot quantity, supporting up to 12 PCIe 5.0 standard slots;
- Flexible optional OCP 3.0 network cards, supporting 1 on the front and 1 on the back of the chassis.

## Stable and reliable Intelligent management

- The key components of the system are all redundant and hot-swappable, and the peripheral components support quick disassembly and assembly without tools, which greatly shortens the operation and maintenance time and improves the system availability;
- Integrated BMC intelligent management chip, providing an open management platform, supporting multiple management protocols such as IPMI2.0, Redfish, and SNMP;
- Provide health status monitoring and fault reporting functions for key components to achieve intelligent management services throughout the product life cycle.

# Technical Specifications

Function	Specifications
CPU	Supports 2 Intel® Xeon® 6th generation processors, each with up to 144 cores, maximum power of 350W, supports 6700P, 6500P, 6700E series CPUs
Memory	Supports 32 DDR5 memory slots (RDIMM/3DS RDIMM), 16 channels in total, up to 6400MT/s Supports MRDIMM memory (only for 6700P, 6500P series CPUs), up to 8000MT/s
Raid Controller	Optional support for 12Gb/s SAS HBA or RAID card Optional support for a SATA adapter card, M.2 form factor, supports 2*SATA 3.0, supports RAID 1
Storage	Front: Supports up to 12 3.5-inch hard drives Supports up to 25 2.5-inch hard drives Supports up to 24 U.2 NVMe SSDs Supports up to 32 E3.S NVMe SSD rear: Supports up to 4 2.5-inch hard drives Internal: Supports 2 M.2 (PCIe 5.0 x4, 2280/22110)
PCIe Expansion	Front(optional): Optional support for 2 PCIe 5.0 standard slots Optional support for 1 OCP 3.0 network card, optional PCIe 5.0 x8 or x16, support for NCSI Rear: Supports up to 10 PCIe 5.0 standard slots Optionally supports 1 OCP 3.0 network card, optional PCIe 5.0 x8 or x16, supports NCSI
GPU	Supports up to 3 full-height full-length double-width GPUs Supports up to 6 full-height full-length single-width GPUs Supports up to 8 half-height half-length single-width GPUs
Network	Supports 1 1Gb RJ45 dedicated management network port Supports up to 2 OCP 3.0 network card slots, optional 4x1GbE / 2x10Gb SFP+ / 4x10Gb SFP+ / 2x25Gb SFP28 or other standard OCP 3.0 network cards
I/O Interface	Front: 1 VGA, 2 USB3.0 Rear: 1 VGA, 2 USB3.0, 1 RJ45 management network port, 1 COM
Management Function	Integrated AST2600 BMC management chip, supports IPMI2.0, Redfish, SOL, KVM, virtual media and other functions
Security	Supports chassis cover intrusion detection, locking chassis cover, optional TPM/TCM security module
Heat Dissipation	Supports 4 hot-swappable fan modules, N+1 redundancy, PID intelligent speed regulation and abnormal alarm
PSU	Configurable with 2 power modules, supports 1+1 redundancy, supports hot swapping, optional 220v AC/240v DC/-48v DC input, optional 800W/1300W/2000W/2700W high-efficiency platinum power supply
Chassis	2U standard rack, 447mm (width) × 87mm (height) × 763mm (depth) (including mounting ears 783mm depth)
Temperature	Operating temperature: 5°C - 35°C (without direct sunlight) Storage temperature: -40°C - 75°C
Humidity	Operating relative humidity: 8% to 90% (non-condensing) Storage relative humidity: 5% to 95% (non-condensing)
OS	Supports mainstream operating systems such as Microsoft Windows Server, Red Hat Enterprise Linux, SUSE Linux Enterprise Server, CentOS, Ubuntu, Oracle Linux, VMware ESXi, Citrix XenServer, etc.