



NCS6712 N6

**NETAŞ RACK
SERVER**

DATASHEET

The NCS6712 N6 is NETAS's next-generation 1U dual-socket universal rack server. It supports two Intel® Xeon® 6 processors with E-core architecture, offering high density, modular design, and refined engineering. The NCS6712 N6 features high performance, large capacity, high reliability, easy scalability, and simplified management, making it widely applicable to cloud computing, big data, virtualization, and other fields.



1. High Density, High Performance

- Supports two Intel® Xeon® 6 processors with E-core architecture, with up to 144 cores per processor.
- Provides 32 DDR5 memory slots, with speeds up to 6400 MT/s.
- Delivers high-speed I/O performance, supporting high-performance NVMe SSDs.

2. High Scalability, High Bandwidth

- High Scalability, High Bandwidth
- Supports up to 10× 2.5" drive bays, with a maximum of 10 NVMe SSDs, and up to 5 PCIe 5.0 expansion slots.
- Offers various storage configurations and RAID card options, allowing flexible local storage configurations based on business needs.



3. High Scalability, High Bandwidth

- Optimized thermal design enhances system reliability, extends component lifespan, and reduces costs.
- Hot-swappable components, including hard drives, power supplies, and fans, improve system availability.
- Supports RAID 0, 1, 5, 6, 10, 50, 60, with power-loss protection, providing various data protection solutions.
- Power modules support 1+1 redundancy, and fans support N+1 redundancy, enhancing system reliability.
- Supports TPM/TCM for security.

4. Easy Management & Maintenance

- Intelligent management platform enables out-of-band monitoring of CPU, memory, storage, fans, power supplies, and network resources.
- Supports IPMI, SNMP, Redfish, and other standard interfaces, allowing integration with third-party management systems.
- Features automated deployment, firmware upgrades, and remote management, improving operational efficiency.
- Provides advanced KVM functionality for remote access and control.

5. Green, Energy-Efficient, and Eco-Friendly

- Equipped with 80PLUS Platinum/Titanium high-efficiency power supplies, supporting power capping.
- Supports high-voltage and low-voltage DC technologies, improving energy efficiency.
- Intelligent fan speed control ensures a quiet and efficient cooling system.
- Lead-free design, promoting environmental sustainability.

6. Technical Specifications

Specifications	NCS6712 N6 Rack Server
Features & Specifications	
Form Factor	1U rack server
Processor	Supports 1 or 2 Intel® Xeon® 6 processors with E-core architecture
Memory	32 DDR5 memory slots, with a maximum speed of 6400 MT/s
Interconnect Bus	Provides 4 UPI interconnect links, with a maximum speed of 24 GT/s per link
Storage Controller	Supports RAID 0, 1, 5, 6, 10, 50, 60, with power-loss protection
Local Storage	<p>Front Storage Drives:</p> <p>8× 2.5" drive bays, supporting SAS/SATA, optional NVMe SSD, and hot-swappable</p> <p>Rear Storage Drives (Optional):</p> <p>2× 2.5" drive bays, supporting SAS/SATA, optional NVMe SSD, and hot-swappable</p>
I/O Module	
Network Resources	Provides 2 OCP 3.0 interfaces, supporting PCIe 5.0 x8, with optional expansion to 2 PCIe 5.0 x16, and optional MultiHost support.
PCIe Slots	<p>Supports up to 5 PCIe expansion slots:</p> <ul style="list-style-type: none"> • 2 dedicated OCP slots • 3 standard PCIe slots
External Device Interfaces	<p>5 USB ports:</p> <ul style="list-style-type: none"> • 2 rear USB 3.0 ports • 1 front USB 3.0 port • 1 internal USB 2.0 port • 1 front USB 2.0 port <p>2 VGA ports (1 front, 1 rear)</p> <p>1 serial port (Type-C)</p>
Device Management Interface	1 independent GE management network port
Display	Integrated graphics card, with an option to support PCIe standard graphics cards.
Operating System	
Compatible Operating Systems	<p>Compatible with current mainstream server operating systems:</p> <ul style="list-style-type: none"> • Microsoft Windows Server • Red Hat Enterprise Linux • SUSE Enterprise Linux • VMware ESXi • Ubuntu, etc.

Physical Characteristics	
Power Supply	Supports 1+1 hot-swappable redundant power supply. Optional 800W/1200W/1600W/2000W, supporting high-efficiency Platinum/Titanium power supplies. Supports 110V/220V AC, 240V/336V high-voltage DC, and -48V DC.
Cooling System	4 high-efficiency fans, N+1 redundancy, with an intelligent cooling system.
Environmental Conditions	Operating Temperature: +5°C to +45°C (Operating temperature varies by configuration; refer to the technical documentation for details). Storage Temperature: -40°C to +65°C. Operating Humidity: 8% to 90% RH, non-condensing. Storage/Transport Humidity: 5% to 95% RH, non-condensing. Altitude: ≤3000 m. For every 300 m increase above 900 m, the operating temperature decreases by 1°C. Mechanical hard drives are not supported above 3000 m.
Dimensions	436mm x 43mm x 830mm (W x H x D, excluding side ears and rails). Standard 19-inch rack (rack depth ≥1 meter).
Full Configuration Weight	Maximum configuration weight: approximately 30kg (excluding rails).
Certifications	CCC and other relevant certifications.

Note: [1] The product specifications are in the planning stage. For specific and currently available configurations, please refer to the detailed product manual.

NETAŞ TELECOMMUNICATION

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