NCS6712 N4

NETAŞ CLOUD SERVER

DATASHEET

NCS6712 N4, is a new-generation 1U2 socket general rack server, which supports 2 Intel ® Xeon ® 4/5 generation scalable processor (Eagle Stream).

NCS6712 N4 uses a high-density, modular, and streamline design.

It features high performance, high reliability, easy expansion, and easy management, which is widely applicable to the Internet, cloud computing, big data, and virtualization fields.

1. High Density, High Performance

• Supports two Intel 4th/5th Generation of Intel® Xeon® Scalable Processors (Eagle Stream) with a single processor of up to 64cores.
• Provides dual CPUs for high-speed interconnection. Up to 3 UPIs for fast channel interconnection.
• The transmission rate can reach 20GT/s.
• Provides 32 DDR5 memory slots, with a maximum rate of 5,600MT/s
• Provides high-speed I/O performance and supports high-performance NVMe SSD.

2. High Scalability, High Bandwidth

• Provides a maximum of 12 2.5" disks to meet the requirements for large-capacity storage.
• Supports a maximum of 12 NVMe SSDs, provides high-speed I/O interfaces and solves the bottleneck of slow hard disk access in traditional solutions.
• Provides the powerful expansion capability and supports up to 6 PCIe 5.0 expansion slots.
• Supports two OCP3.0 standard NICs (x16+x8).
• Provides the powerful computing capability and supports two high-performance GPUs.

3. High Availability, High Reliability

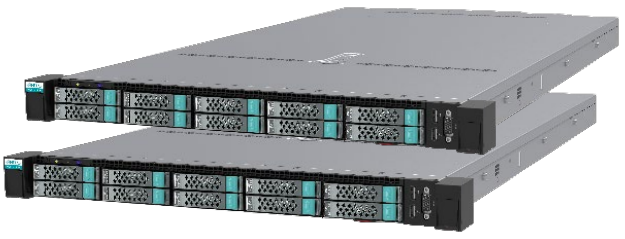
• The good heat dissipation design improves system reliability, and effectively extends the life of components and reduces costs.
• The hard disks, power supplies, and fans support hot swapping, improving the availability of the system.
• Supports RAID 0, 1, 5, 6, 10, 50, 60 supports power-off protection, and provides multiple data protection solutions for users.
• Power modules support 1+1 redundancy, and fans support N+1 redundancy, improving system reliability.
• Supports TPM/TCM.

4. Convenient Management, Easy Maintenance

• Provides the intelligent management platform, implementing out-of-band monitoring of resources such as CPUs, memories, hard disks, fans, power supplies, and networks.
• Supports standard interfaces such as IPMI, SNMP, and Redfish, so that the platform can be integrated with third-party management systems.
• Supports automatic deployment, firmware upgrade, and remote operations to improve deployment and O&M efficiency.
• Provides powerful the KVM function.

5. Green, Energy Saving, Environment Protection

• 80PLUS high-efficiency platinum/titanium power supplies are used to support power capping.
• Supports high-voltage DC and low-voltage DC technologies to improve energy utilization.
• Intelligent rotation speed adjustment and silence design
Lead-free design and environmental protection



6. Technical Specifications

Technical Specification	NCS6712 N4 2U Rack Server
Feature	
From	1U Rack Server
CPU	½ Intel® Xeon® 4th/5th generation scalable processor (Eagle Stream)
Chipset	Intel C741
Memory	Support up to 32 DDR5 memory slots with maximum rate of 5,600 MT/s
Interconnection bus	Provides 3 UPI interconnection links. The maximum rate of a single link is 20GT/s Provides x4 DMI high-speed channels
Raid controller	Supports RAID 0/1/5/6/10/50/60 and power-oV protection
Local Storage	Provides a maximum of 10x 2.5" slots, SAS/SATA supported, NVMe optional and hot swapping is supported + 2x 2.5" rear slots, SAS/SATA supported, NVMe optional and hot swapping (optional)
I/O Module	
Network Resources	Supports 2x OCP3.0 interfaces, one of which supports PCIE5.0 x 16 and the other supports PCIE5.0 x 8
PCIe slots	Supports up to 6 PCIe slots: Supports maximum of three PCIe standard slots Two dedicated OCP slots One built-in dedicated RAID card slot
External Equipment interface	5x USB interface 2x rear USB3.0 1x front USB3.0 1x front USB2.0 1x internal USB3.0 2x VGA interface (1x front, 1x rear) 1x RS232 - Serial port
Hardware Management Interface	Support 1 independent GE management network interface
Display	Integrated display cards, Supporting the optional configuration of PCIe standard display cards

OS	
Compatible OS	Compatible with mainstream server operating systems: Microsoft Windows Server, Red Hat Enterprise Linux, SUSE Enterprise Linux, Vmware ESXI, CGSL
Physical Features	
Power	Supports 1+1 hot/swappable redundant power supplies. (Optional) 550 W/800 W/1200 W/1600 W/2000 W high-eViciency platinum/titanium power supply Supports 110V/220V AC, 240V/336V high-voltage DC and -48V DC
Fan	Eight high-eViciency fans, N+1 redundancy and intelligent heat dissipation system
Environmental conditions	Operating temperature: +5 ºC to +45 ºC (depending on the configuration, refer to the technical documentation for details) Storage temperature: -40 ºC to +65 ºC Operating humidity: %8 – %90 RH, no condensation Transportation and storage humidity: %5 – %95 RH, no condensation Altitude: ≤ 3.000m. When the altitude is 900m. higher, the operating temperature is reduced by 1°C for every 300m. higher. If the altitude is more than 3.000m., you cannot configure mechanical hard disks.
Size	432 mm x 43 mm x 780 mm (W x H x D), excluding flanges and guide rails Standard 19-inch rack (>=1m deep)
Weight with full configuration	The equipment with the maximum configuration is about 27Kg. (Excluding guide rails)
Certificate	CE, CCC, CQC

FontesX

Contact Information

For further information or support, please contact our authorized business partner:

FontesX GmbH
Neuhausweg 3
CH-8712 Stäfa
Phone: +41 44 926 45 00
Fax: +41 44 926 45 01
Mobile: +41 79 349 34 20
E-mail: info@fontesx.com
Web: www.fontesx.com

Find us on: