NCS6722A N4

NETAŞ CLOUD SERVER

DATASHEET

The NCS6722A N4 rack server is an enterprise-class general rack server developed by ZTE based on the latest fourth-generation EPYC 9004 series high-performance processors of AMD. It uses a secure and reliable software and hardware system, and features multiple cores, high throughput, strong single-thread capability, high integer computing performance, and high access and I/O channel bandwidth. It is a high-performance server oriented to enterprise applications and data centers. The R5350 G5 server, which can be regarded as a high-performance, secure and reliable storage platform, delivers exceptional Total Cost of Ownership (TCO) for cloud computing, big data analysis, software-defined data centers for low-latency, data-intensive workloads.

1. High Density, High Performance

■ The server uses high-performance processors of AMD EPYC 9004 series.

■ In the dual-channel mode, up to 256 cores / 512 threads are supported to meet the requirement for deploying cloud computing.

■ The server has the high memory bandwidth design capability. It supports twenty-four DDR5-4800 memory bars to accelerate memory-intensive application performance.

■ It supports a maximum of thirty-two NVMe U.2 hard disks, provides high-speed I/O interfaces, and solves the bottleneck of slow access to traditional hard disks.

2. High Scalability

■ Supports diversified storage configurations and large storage configurations, and supports a maximum of 33 hot-swappable hard disks.

■ Supports the expansion of twelve PCIe Gen5 slots to meet the flexible expansion requirements such as network and storage control.

■ Supports up to four double-wide GPU cards to provide powerful heterogeneous computing capabilities.

3. Convenient Management, Easy Maintenance

■ System health can be fully monitored, and core components can be monitored and diagnosed.

■ Supports automatic deployment, firmware upgrade, and remote operations to improve deployment and O&M efficiency.

■ Provides enterprise-level management functions and reliability, automatic equipment onduty observation, real-time monitoring of core components, and classification and reporting of faulty streamline s, providing comprehensive guarantee for data center O&M.

4. Green, Energy Saving, Environment Protection

■ 80PLUS high-efficiency power modules are used to support high-voltage DC and low-voltage DC technologies and provide energy utilization.

■ High-efficiency fans are used. Under the same heat dissipation capability, the power consumption is lower.

■ Fans support intelligent speed adjustment and quiet design.

■ Lead-free design, green, and environment protection

5. Technical Specifications

Specification	NCS6722A N4
Features of host	
Form	2U
Adaptable cabinet	19 inches ≥1,000mm-deep cabinet
Processor	Supports 1/2 AMD EPYC 9004 series high-performance processors. Each processor supports a maximum of 128 cores and hyper-threading.
Memory slot	Twenty-four DDR5-4800 RDIMM ECC memory slots, with a maximum memory capacity of 12TB
Hard disk controller	Supports standard and self-developed HBAs, Raid cards, and SAS4.0/SAS3.0/SATA3.0/PCIe5.0/PCIe4.0.
Hard disk	Provides multiple front storage bays, hot swapping, HDDs, and SSDs. ■ 8x2.5"slots, supporting SAS/SATA/U.2 ■ 16x2.5"slots, supporting SAS/SATA/U.2 ■ 24x2.5"slots, supporting SAS/SATA/U.2 ■ 25x2.5"slots, SAS/SATA supported, eight of which support U.2 ■ 12x3.5"slots, supporting SAS/SATA/U.2 Multiple flexible storage module configurations are provided. Multiple options are available. Hot swapping, HDDs, and SSDs are supported. ■ 2x2.5 "slot, SAS/SATA/U.2 supported, up to four hard disks ■ 2x3.5 "slot, SAS/SATA/U.2 supported, up to four hard disks
Display	Integrated display controller,supporting the optional configuration of PCIe standard display cards
System management	Web Management interface, supporting IPMI2.0 ,SNMP, RedFish, KVM Over IP
IO module	
PCIe slot	Expandable up to twelve PCIe slots (including two OCP 3.0 slots)
External device interface	Four USBs (two USBs at the rear and one USB3.0 + one USB2.0 at the front) Two VGA interfaces (one front end and one back end) One 3.5 MM serial port One IPMI GE management interface
Physical features	
Power	Two CRPS standard power supply devices, hot-swappable, and 1+1 redundancy (Optional)550W/800W/1200W/1600W/2000W/2700W/3200W high-efficiency platinum/titanium power supply Supports multiple power systems: 110/220VAC,-48VDC, 240VDC, and 336VDC.

Environment conditions	Operating temperature: +5ºC to +40ºC (depending on the configuration, refer to the technical document for details) Storage temperature: -40℃ - 65℃ 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
System size	19-inch rack type, chassis size: 432mm x 87.6mm x 780mm (W x H x D), excluding flanges and guide rails
Fan	Four hot-swappable and redundant middle fans, supporting dynamic and intelligent fan speed adjustment.
Weigt	No more than 40 kg in full configuration (excluding guide rails)
Certificate	CCC, CE, etc.
OS	
Compatible OS	Compatible with mainstream server operating systems: Microsoft Windows Sever， Red Hat Enterprise Linux， SUSE Enterprise Linux ， Vmware ESXi ， and Ubuntu