



**NCS6744 N4**

**NETAŞ CLOUD  
SERVER**

**DATASHEET**



NCS6744 N4, is a new-generation 4U4 socket general rack server, which supports 4 Intel® Xeon® 4<sup>th</sup> and 5<sup>th</sup> generation scalable processor (Sapphire Rapids).

NCS6744 N4 uses a high-density, modular, and streamline design.

Enterprise level 4U large-storage server, it features high capability, large capacity, high reliability, easy expansion, and easy management, which is widely applicable to interconnection, network, cloud computing, big data, and virtualization.

### **1. High Density, High Performance**

- Supports four Intel 4<sup>th</sup> and 5<sup>th</sup> Generation of Intel® Xeon® Scalable Processors (Sapphire Rapids)
- Provides 64 DDR5 memory slots, with a maximum rate of 4,800MT/s
- Supports a maximum of 20 PCIe 5.0 slots and provides users with super network communication capabilities by configuring high-speed NICs.
- Supports a maximum of 50 2.5" hard disks including up to 24 NVMe disks, provides high-speed I/O interfaces and solves the bottleneck of slow access to traditional hard disks.

### **2. High Availability, High Reliability**

- Provides advanced RAS features, covering chip-level, link-level, module-level and system-level solutions to improve system reliability.
- Provides a good heat dissipation design effectively extending the life of components and reducing costs while improving system reliability
- Key components such as hard disks, power supplies, fans and PCIe cards support the hot swapping technology improving the availability of the system.
- Supports RAID 0, 1, 5, 6, 50, 60 and other data protection solutions for users.
- Power modules support N+N redundancy.

### 3. Convenient Management, Easy Maintenance

- Comprehensively monitors system health so that 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 on-duty observation, real-time monitoring of core components, and makes streamline classification and reporting of faults, providing comprehensive guarantee for data center O&M.

### 4. Green, Energy Saving, Environment Protection

- Adopts 80PLUS high-efficiency power modules to support high-voltage DC and low-voltage DC technologies to improve energy utilization.
- Selects high-efficiency fans so that under the same heat dissipation capability, the power consumption is lower.
- Intelligent rotation speed adjustment and silence design
- Lead-free design and environmental protection



## 5. Technical Specifications

Technical Specification	NCS6744 N4 4U Rack Server
<b>Feature</b>	
<b>From</b>	4U Rack Server
<b>Applicable Cabinet</b>	19 inches >=1.000m - deep cabinet
<b>Processor</b>	Supports 4 Intel® Xeon® 4 <sup>th</sup> /5 <sup>th</sup> generation scalable processor (Sapphire Rapids)
<b>Interconnection bus</b>	Supports 4 channel UPI 2.0 interconnection links at maximum rate of 16GT/s
<b>Memory</b>	Support up to 64 DDR5 memory slots with maximum rate of 4,800 MT/s Supporting DDR5 memory bars
<b>Raid controller</b>	Supports RAID 0/1/5/6/10/50/60 and power-oV protection
<b>Local Storage</b>	Provides a maximum of 50x 2.5" SAS/SATA, SSD (up to 24 NVMe) (front), maximum of 8x 3.5" NL-SAS/SATA (rear), + 2x M.2 slots,
<b>I/O Module</b>	
<b>Network Resources</b>	Supports 2x OCP3.0 interfaces, Supports PCIE5.0
<b>PCIe slots</b>	Supports up to 20 PCIe slots: 2x OCP dedicated slots, 1x dedicated Raid card slot Supporting PCIe riser shelves (7 PCIe slots in each FH or HH) 2x FH riser or 2x FH PCIe on board or 1x FH riser + 1x HH riser + 6x FH PCIe on board
<b>External Equipment interface</b>	4x USB interface 2x rear USB3.0 1x front USB3.0 1x front USB2.0  2x VGA interface (1x front, 1x rear) 1x RS232 - Serial port
<b>Hardware Management Interface</b>	Support 1 independent GE management network interface
<b>Display</b>	Integrated display controller,

OS	
<b>Compatible OS</b>	Compatible with mainstream server operating systems: Microsoft Windows Server, Red Hat Enterprise Linux, SUSE Enterprise Linux, Vmware ESXI, CGSL,
Physical Features	
<b>Power</b>	Supports N+N hot/swappable redundant power supplies. 800 W/1300 W/1600 W high-eViciency platinum/titanium power supply Supports 110V/220V AC, 240V/336V high-voltage DC and -48V DC
<b>Fan</b>	6 or 12 of high-eViciency dual-rotor fans, N+1 redundancy and intelligent heat dissipation system
<b>Environmental conditions</b>	Operating temperature: +5 °C to +40 °C (depending on the configuration, refer to the technical documentation for details) Storage temperature: -40 °C to +65 °C 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.
<b>Size</b>	435 mm x 175 mm x 836 mm (W x H x D), excluding flanges and guide rails,  Standard 19-inch rack (>=1m deep)
<b>Weight with full configuration</b>	The equipment with the maximum configuration is about 60Kg. (Excluding guide rails)
<b>Certificate</b>	