# XCubeNAS
# XN7004R

**QSAN**

## The Perfect NAS Solution for SMB Market

The QSAN XCubeNAS 7004R is powered by Intel® Core™i3 3.9GHz dual-core processor. It provides complete and versatile data processing services for SMBs. The innovative 4+2 Hybrid storage capacity provides a more flexible storage solution. An optional 12Gb/s SAS expansion card can be added to greatly expand the scalability, maximum supporting 214 disks, making the maximum available space up to 3.2PB. Unified storage supports both file storage and iSCSI, making it the best choice for multi-media data processing in SMBs.
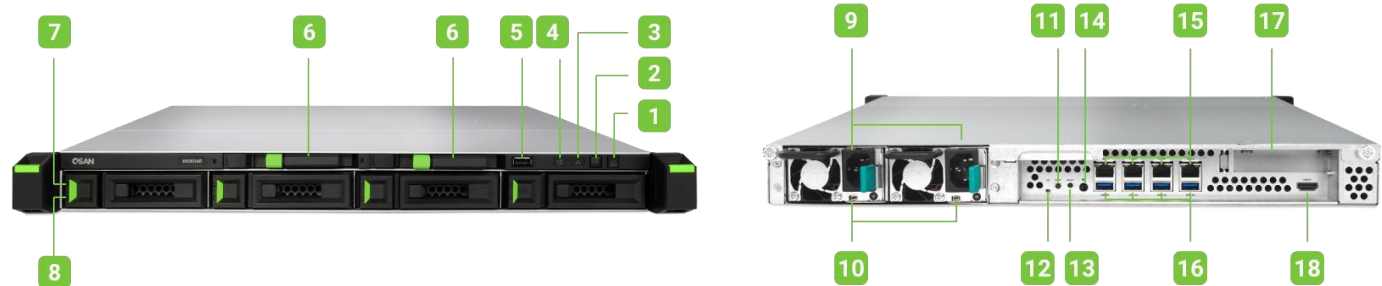
## Product Features

• Innovative N+E(4+2) Hybrid Storage Capacity, support SATA SSD.
• Unified Storage - Integrated storage system supports block and file storage simultaneously and following protocols, iSCSI, CIFS, NFS, FTP, WebDAV, and AFP.
• Comprehensive Data Security - Pool Military level encryption with AES-256, Write Once Read Many (WORM) , Self-Encrypting Drive (SED).
• Universal and Efficient Data Backup - XMirror supports permission backup , disaster recovery and flexible protection between multiple NAS devices.
• Advanced Enterprise Storage Technology - Auto-Tiering, Inline Compression, Deduplication.
• QSAN XCubeNAS is full VM supported : VMware, VEEAM, Citrix certification through virtualization certification standards and compatible with Microsoft Hyper-V environment.
• High Expandability & Scalability : Support High speed 10GbE adaptor card, and SAS 12Gb expansion card.

## Application areas

• IT Industry : File storage services, cloud storage services, near-line backup systems, secondary backup storage devices, disaster recovery solutions, virtualize host and storage devices.
• Government : Diskless workstation system, urban security monitoring system, agenda recording and playback system, digital file storage (digital collection), remote data backup center, cloud storage service, virtualized storage device.
• Education : Administrative system storage device, host and storage device virtualization, network storage service, security monitoring system, digital teaching system, library management system, computer classroom diskless workstation.
• Media Industry : Non-linear editing system, audio-visual editing system, online editing storage system, media database storage management, video on-demand system, content on-demand delivery system, wedding studio photo/video storage system.
• Finance & Insurance : Telemarketing recording system, policy image storage device, data storage system , Near-Line backup system, host virtualization application, development system storage device.
• Telecommunications industry : Online music play system, security monitoring system, customer service recording system, network storage service, Near-Line backup system, virtualization of host and storage devices.

# Product Spec of XN5004R

## Apperance

| | | |
|---|---|---|
| 1. Power Button/LED Indicator for Power Status | 2. Unique Identifier (UID) Button/LED Indicator | 3. System Access LED Indicator |
| 5. USB 2.0 Port | 6. SATA SSD Slot | 7. Disk Drive Status LED Indicator |
| 9. Power Supply Unit – Power Port | 10. Power Supply Unit PSU Indicator and Beep Off Button | 11. Unique Identifier (UID) LED Indicator |
| 13. Reset Button | 14. Console Port | 15. Gigabit LAN Port |
| 17. Additional PCIe Slot for Expansion (Gen3 x 8) | 18. HDMI Port | |

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**16.** USB 3.0 Port
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**18.** HDMI Port

## Hardware Specifications

| | |
|---|---|
| Architecture | All-in-one |
| **CPU** | |
| Processor | Intel® Core™i3 3.9GHz dual-core |
| **Memory** | |
| System Flash | 8GB USB DOM |
| Memory Module Pre-installed | 8GB DDR4 U-DIMM |
| Total Memory Slots | 4 |
| Memory Expandable up to | 64 GB |
| **Storage** | |
| Drive Bays | 3.5" Slot x 4 · 2.5" Slot x 2 |
| Maximum Drive Bays with Expansion Unit | 414 |
| Compatible Drive Type | 3.5″ SATA HDD · 2.5″ SATA HDD · 2.5" SATA SSD |
| Drive Interface | SATA 6Gb/s (backward compatible with SATA 3Gb/s) |
| Maximum Internal Raw Capacity | 141TB |
| Maximum Raw Capacity with Expansion Units | 8,301TB |
| Hot Swappable Drive | support |
| **External Port** | |
| USB 2.0 Port | 1 (Front) |
| USB 3.0 Port | 4 (Rear) |
| HDMI Port | 1 |
| Others | Console Port x1 |
| **LAN Port** | |
| 1GbE RJ45 LAN Port | 4 (Onboard) |
| 10GbE RJ45 LAN Port | 2 (Option) |
| 10GbE SFP+ LAN Port | 2 (Option) |
| Thunderbolt 3 | 2 (Option) |
| **Expansion Port** | |
| 12Gb/s SAS Wide Port | 2 (Option) |
| **PCIe Expansion** | |
| Gen3x8 Slot | 1 |
| **Appearance** | |

| | |
|---|---|
| Dimension (H x W x D) (mm) | 44 x 438 x 510 |
| Chassis Form Factor | 19 Rackmount 2U 4+2 Bay |
| Net Weight (kg) | - |
| Gross Weight (kg) | - |
| **Others** | |
| System Fan | 40mm x 40mm x 3 pcs |
| Replaceable System Fan | support |
| Power Recovery | support |
| Scheduled Power On/Off | support |
| Wake on LAN/WAN | support |
| Power Supply Unit / Adapter | 250W x2 |
| Redundant Power Supply | yes |
| AC Input Power Voltage | 100V-240V |
| Power Frequency | 50-60 Hz, Single Phase |
| Power Consumption | - |
| British Thermal Unit | - |
| LCM Support | support |
| **Environment Temperature** | |
| Operating Temperature | 0 to 40°C |
| Storage Temperature | -10°C to 50°C |
| Operating Relative Humidity | 20% to 80% non-condensing |
| Non-operating Relative Humidity | 10% to 90% |
| **Certification** | |
| Certifications | CE / EAC / SASO / RCM / VCCI / BSMI / FCC |
| **Warranty** | |
| Standard Warranty | 3 years |