# XCubeNAS
# XN8008R

**QSAN**

## Ultra-high Performance and Virtualization Ready

The Industry's first 2U hybrid NAS (8+6) with Intel® Xeon ® E3 Quad-core processor provides native auto-tiering storage capability to fulfill the maximum performance and high-capacity demand for enterprises. With U.2 NVMe SSDs and up to 64GB memory capacity, the XN8008R's maximum sequential write performance is up to 4,690MB/s and 4K sequential IOPS is up to 346,000. This is the best choice for enterprise data storage applications, virtualization ready storage and data backup systems.
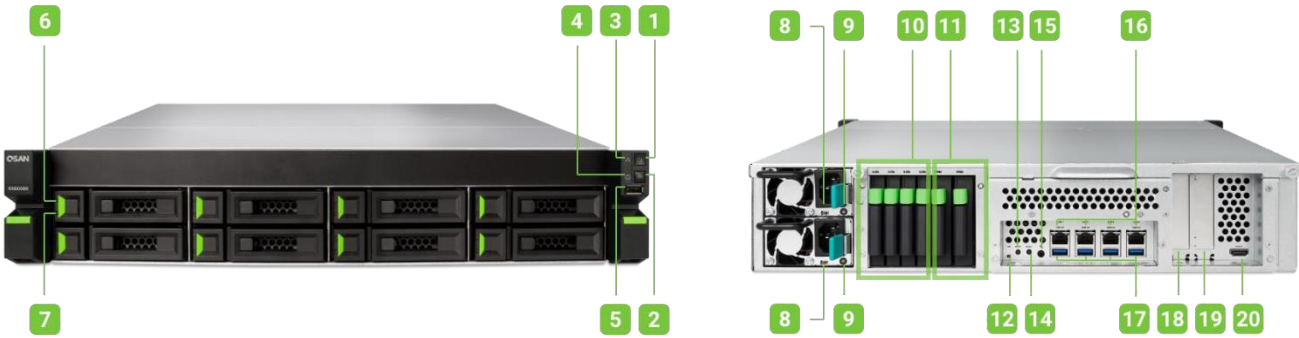
## Product Features

- With High performance and expansion by using 12Gb/s technology, maximum space up to 3.3PB.
- Unified Storage - Integrated storage system supports block and file storage simultaneously and following protocols, iSCSI, CIFS, NFS, FTP, and AFP.
- Universal and Efficient Data Backup - XMirror supports permission backup , disaster recovery and flexible protection between multiple NAS devices.
- KVM Built-in Hypervisor Manager : enabling user to create and manage virtual machines that run directly on the XCubeNAS and host multiple virtualized environments without the additional hardware investment.
- Comprehensive Data Security - Pool Military level encryption with AES-256, Write Once Read Many (WORM) , Self-Encrypting Drive (SED).
- Thin Provision -  Precision Restore and dynamically Space.
- Advanced Enterprise Storage Technology - Auto-Tiering, Inline Compression, Deduplication and Thin Provision.

## 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 XN8008R

## Appearance



| | | |
|---|---|---|
| 1. Power Button/LED Indicator for Power Status | 2. Unique Identifier (UID) Button/LED Indicator | 3. System Access LED Indicator | 4. System Status LED Indicato |
| 5. USB 2.0 Port | 6. Disk Drive Power LED Indicator | 7. Disk Drive Power LED Indicator | 8. Power Supply Unit Power Port |
| 9. Power Supply Unit PSU Indicator and Beep Off Button | 10. SATA SSD Slot | 11. NVMe SSD Slot | 12. Unique Identifier (UID) LED Indicator |
| 13. Mute Button | 14. Reset Button | 15. Console Port | 16. Gigabit LAN Port |
| 17. USB 3.0 Port | 18. Additional PCIe Slot for Expansion (Gen3 x 8) | 19. Additional PCIe Slot for Expansion (Gen3 x 4) | 20. HDMI Port |

## Hardware Spec

| | |
|---|---|
| Architecture | All-in-one |
| **CPU** | |
| Processor | Intel® Xeon®64-bit Quad-Core 3.3GHz |
| **Memory** | |
| System Flash | 8GB SATA 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 8, 2.5" Slot x 6 |
| Maximum Drive Bays with Expansion Unit | 422 |
| Compatible Drive Type | 3.5 " SATA HDD, 2.5" SATA HDD, 2.5" SATA SSD, 2.5" NVMe SSD |
| Drive Interface | SATA 6Gb/s (backward compatible with SATA 3Gb/s) |
| Maximum Internal Raw Capacity | 344TB |
| Maximum Raw Capacity with Expansion Units | 8,504TB |
| Hot Swappable Drive | yes |
| **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 |
| Gen2x4 Slot | 1 |

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| Appearance | |
|---|---|
| Dimension (H x W x D) (mm) | 88.5 x 438 x 510 |
| Chassis Form Factor | 19" Rackmount 2U 8+6 Bay |
| Net Weight (kg) | 13.5 |
| Gross Weight (kg) | 14.9 |

| Others | |
|---|---|
| System Fan | 60mm x 60mm x 3 pcs, 40mm x 40mm x 1 pcs |
| Replaceable System Fan | yes |
| Power Recovery | yes |
| Scheduled Power On/Off | yes |
| Wake on LAN/WAN | yes |
| 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 | 263 W (Access), 122 W (HDD Hibernation) |
| British Thermal Unit | 895 BTU/hr (Access), 417 BTU/hr (HDD Hibernation) |
| LCM Support | yes |

| Environment Temperature | |
|---|---|
| Operating Temperature | 0 to 40℃ |
| Storage Temperature | -10℃ to 50℃ |
| Operating Relative Humidity | 20% to 80% non-condensing |
| Non-operating Relative Humidity | 10% to 90% |

| Certification | |
|---|---|
| | CE / EAC / SASO / RCM / VCCI / BSMI / FCC |

| Warranty | |
|---|---|
| Standard Warranty | 3 years |