XCubeNAS
XN7008R

QSAN

The Perfect NAS Solution for SMB Market

Equipped with Intel® Core™i3 dual-core processor, QSAN XCubeNAS 7008R provides a versatile data processing center solution with a maximum sequential throughput 4,653MB/s and 4K sequential IOPS 356,443. With 2 PCIe expansion slots, XN7008R can easily connect to 10GbE network and 12Gb/s SAS expansion units, which deliver a large amount of storage capacity under ultra-high performance required infrastructure. It is suitable for various storage applications of small and medium-sized enterprises.
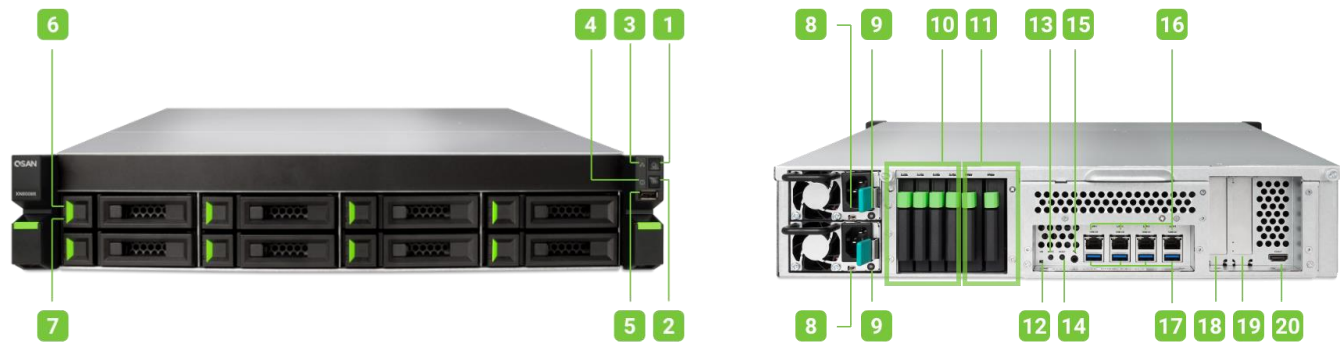
Product Features

- Innovative N+6(4+2) Hybrid Storage Capacity, support U.2 NVMe 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).
- Rsync- Real-time Sync with Encrypiton.
- 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.
- Video editing storage : High-speed 40GB ThunderboltTM3, supports cross platforms between Windows and Mac.
- With High performance and expansion by using 12Gb/s technology, maximum space up to 3.3PB.

Application areas

- IT Industry : File storage services, cloud storage services, nearline backup systems, secondary backup storage devices, disaster recovery solutions, virtualization of host and storage devices.
- Government : Disk free 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 devic.
- Education : Administrative system storage device, host and storage device virtualization, network storage service, security monitoring system, digital teaching system, library management system, computer classroom disk free 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 photo studio storage system.
- Finance & Insurance : Telephone marketing 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 XN7008R

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 Indicator
5. USB 2.0 Port	**6.** Disk Drive Power LED Indicator	**7.** Disk Drive Status 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	Single Controller
CPU	
Processor	Intel® Core™i3 64-bit Dual-Core 3.9GHz
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 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 (可相容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: THBE10R2)
10GbE SFP+ LAN Port	2 (Option: XN-E1002)
Thunderbolt 3	2 (Option: XN-TB302)
Expansion Port	
12Gb/s SAS Wide Port	2 (Option: XN-S1202)
PCIe Expansion	
Gen3x8 Slot	1
Gen2x4 Slot	1

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°C
Storage Temperature	-10°C to 50°C
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