



The Perfect NAS Solution for SMB Market

Equipped with Intel® Core™i3 dual-core processor, QSAN XCubeNAS 7008RE 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, XN7008RE 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

- 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.

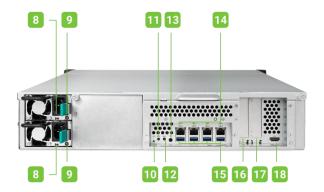
Application areas

- 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 XN7008RE

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

Processor Intel® Core™i3 64-bit Dual-Core 3.9GHz Memory 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 UPPRINT MICHIER STATE STAT	Tranatiane opec	
Processor Intel® Core™i3 64-bit Dual-Core 3.9GHz Memory 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 UPPRINT MICHIER STATE STAT	Architecture	Single Controller
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 Unive Bays 3.5" SIOt x 8 Maximum Drive Bays with Expansion Unit 416 Compatible Drive Type 3.5" SATA HDD, 2.5" SATA HDD, 2.5" SATA SSD Drive Interface SATA GGI/s (同相图SATA 3Gb/s) Maximum Internal Raw Capacity 160°B Maximum Raw Capacity with Expansion Unit 8.320°B Maximum Raw Capacity with Expansion Unit 8.320°B LISE 2.0 Port 1 (Front) USB 2.0 Port 4 (Rear) USB 2.0 Port 4 (Rear) UDIN Port 5 LISE 2.1 N Port 4 (Onboard) LIGE RIAS LAN Port 2 (Option: XN-E1002) Thunderbolt 3 2 (Option: XN-E1002) Thunderbolt 3 2 (Option: XN-T8302)	CPU	
System Flash 8G B USB DOM Memory Module Pre-installed 8GB DDR4 U-DIMM Total Memory Slots 4 Memory Expandable up to 6 4 GB Storage USB SQ 3.5 "Slot x 8 Maximum Drive Bays with Expansion Unit 416 Compatible Drive Type 3.5 "SATA HDD, 2.5" SATA SDD Drive Interface SATA 6Gb/s (의원인종ATA 3Gb/s) Maximum Internal Raw Capacity 160TB Maximum Internal Raw Capacity with Expansion Upit 48 Hot Swappable Drive ye External Port USB 3.0 Port USB 3.0 Port 4 (Rear) HDMI Port 1 USB 3.0 Port 4 (Rear) HDMI Port 2 USB 2.0 Port 4 (Rear) HDMI Port 1 10Fbc RJAS LAN Port 4 (Onboard) 10Gbc RJAS LAN Port 2 (Option: THBELOR2) 10Gbc RJAS LAN Port 2 (Option: XN-E1002) Thunderbolt 3 2 (Option: XN-E302) Expansion Port 2 (Option: XN-S1202)	Processor	Intel® Core™i3 64-bit Dual-Core 3.9GHz
Memory Module Pre-installed 46 B D D R 4 U - D I M M Total Memory Expandable up to 46 B Storage V Drive Bays 5.5° S lot x 8 Maximum Drive Bays with Expansion Unit 46 Compatible Drive Type 3.5° S ATA HDD, 2.5° S ATA S SD Drive Interface 5.5° S ATA HDD, 2.5° S ATA S SD Maximum Internal Raw Capacity 60TB Maximum Raw Capacity with Expansion Unit 8.20 TB Mot Swappable Drive 9 External Porive 1 USB 2.0 Port 4 (Rear) USB 3.0 Port 4 (Rear) HDMI Port 1 Charper Console Port x1 LEMP Port 4 (Onboard) 105E RJAS LAN Port 4 (Onboard) 106E RJAS LAN Port 4 (Onboard) 107E Rypansion Port 2 (Option: XN-E1002) 107E Sys SAS Wide Port 4 (Option: XN-S1202) 107E Sys SAS Wide Port 4 (Option: XN-S1202)	Memory	
Total Memory Slots 4 64 84 84 84 84 84 84 84 84 84 84 84 84 84	System Flash	8GB USB DOM
Memory Expandable up to 46 GB Storage ************************************	Memory Module Pre-installed	8GB DDR4 U-DIMM
Storage Drive Bays 3.5" Slot x 8 Maximum Drive Bays with Expansion Unit 416 Compatible Drive Type 3.5 " SATA HDD, 2.5" SATA HSD Drive Interface SATA 6Gb/s (可相答SATA 3Gb/s) Maximum Internal Raw Capacity 660B Maximum Raw Capacity with Expansion Unit 8,320B Hot Swappable Drive yes External Port (Front) USB 2.0 Port 4 (Rear) HDMI Port 1 Others cosole Port x1 External Port (Onboard) 10GbE RJ45 LAN Port 4 (Onboard) 10GbE RJ45 LAN Port 2 (Option: XN-E1002) Thunderbot 3 2 (Option: XN-E1002) Thunderbot 3 2 (Option: XN-E1002) Thunderbot 4 2 (Option: XN-E1002) Expansion Port 2 (Option: XN-S1022) Expansion Port 2 (Option: XN-S1022)	Total Memory Slots	4
Drive Bays 3.5" Slot x 8 Maximum Drive Bays with Expansion Unit 416 Compatible Drive Type 3.5 "SATA HDD, 2.5" SATA HDD, 2.5" SATA SDD Drive Interface SATA 66b/s (可相容SATA 3Gb/s) Maximum Internal Raw Capacity 160TB Maximum Raw Capacity with Expansion Units 8,320TB Hot Swappable Drive 9es External Port USB 2.0 Port 1 (Front) USB 3.0 Port 4 (Rear) HDMI Port 1 1 Others 10 Console Port x1 LAN Port 1 (Onboard) 10GbE RJAS LAN Port 2 (Option: THBE10R2) 10GbE SFP+ LAN Port 2 (Option: XN-E1002) Thunderbolt 3 (Option: XN-E302) Expansion Port 12Gb/s SAS Wide Port 2 (Option: XN-S1202) PCIE Expansion FCIE Expansion FCIE RJAS SLOT 1 (Pront) 4.60 (Option: XN-S1202) PCIE Expansion FCIE RJAS SLOT 1 (Pront) 4.60 (Option: XN-S1202) PCIE Expansion FCIE Expansion FCIE RJAS SLOT 1 (Pront) 4.60 (Option: XN-S1202) PCIE Expansion FCIE RJAS SLOT 1 (Pront) 4.60 (Option: XN-S1202) PCIE Expansion FCIE RJAS SLOT 1 (Pront) 4.60 (Option: XN-S1202) PCIE Expansion FCIE RJAS SLOT 1 (Pront) 4.60 (Option: XN-S1202) PCIE Expansion FCIE RJAS SLOT 1 (Pront) 4.60 (Option: XN-S1202) FCIE RJAS SLOT 1 (Pront) 4.60	Memory Expandable up to	64 GB
Maximum Drive Bays with Expansion Unit 416 Compatible Drive Type 3.5 "SATA HDD, 2.5" SATA SDD Drive Interface SATA 66b/s (可相答SATA 3Gb/s) Maximum Internal Raw Capacity 600	Storage	
Compatible Drive Type 3.5 " SATA HDD, 2.5" SATA SDD Drive Interface SATA 66b/s (司相容SATA 3Gb/s) Maximum Internal Raw Capacity 160TB Maximum Raw Capacity with Expansion Units 8,320TB Hot Swappable Drive yes External Port 1 (Front) USB 2.0 Port 1 (Front) USB 3.0 Port 4 (Rear) HDMI Port 1 Others Console Port x1 LAN Port 4 (Onboard) 10GbE 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-E302) Expansion Port 2 (Option: XN-S1202) PCIE Expansion 2 (Option: XN-S1202)	Drive Bays	3.5" Slot x 8
Drive Interface SATA 6Gb/s (히相함SATA 3Gb/s) Maximum Internal Raw Capacity Maximum Raw Capacity with Expansion Units 8,320TB Hot Swappable Drive yes External Port USB 2.0 Port 1 (Front) USB 3.0 Port 4 (Rear) HDMI Port 1 1 Others Console Port x.1 LAN Port LAN Port 4 (Onboard) 10GbE RJ45 LAN Port 4 (Onboard) 10GbE RJ45 LAN Port 2 (Option: THBE10R2) 10GbE SFP+ LAN Port 2 (Option: XN-E1002) Thunderbolt 3 (Option: XN-E3002) Expansion Port 12Gb/s SAS Wide Port 2 (Option: XN-S1202) POEL Expansion FOR STAR SIOt 1 (Option: XN-S1202) POEL SEAS SIOT 2 (Option: XN-S1202) PO	Maximum Drive Bays with Expansion Unit	416
Maximum Internal Raw Capacity 160TB Maximum Raw Capacity with Expansion Units 8,320TB Hot Swappable Drive yes External Port USB 2.0 Port USB 2.0 Port 1 (Front) USB 3.0 Port 4 (Rear) HDMI Port 1 Others Console Port x1 LAN Port 4 (Onboard) 10GbE 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 2 (Option: XN-S1202) PCIE Expansion Consoler XN-S1202) PCIE Expansion 1	Compatible Drive Type	3.5 " SATA HDD, 2.5" SATA HDD, 2.5" SATA SSD
Maximum Raw Capacity with Expansion Units 8,320TB 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 EAN Port 4 (Onboard) 10GbE 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 2 (Option: XN-S1202) PCIE Expansion 5 (Option: XN-S1202) PCIE Expansion 5 (Option: XN-S1202) PCIE Expansion 5 (Option: XN-S1202)	Drive Interface	SATA 6Gb/s (可相容SATA 3Gb/s)
External Port USB 2.0 Port 1 (Front) USB 3.0 Port 4 (Rear) HDMI Port 1 Others Console Port x1 LAN Port LAN Port 106bE RJ45 LAN Port 4 (Onboard) 106bE RJ45 LAN Port 2 (Option: THBE10R2) 106bE SFP+ LAN Port 2 (Option: XN-E1002) Thunderbolt 3 2 (Option: XN-TB302) Expansion Port 2 (Option: XN-S1202) PCIE Expansion 2 (Option: XN-S1202)	Maximum Internal Raw Capacity	160TB
External Port USB 2.0 Port 1 (Front) USB 3.0 Port 4 (Rear) HDMI Port 1 Others Console Port x1 LAN Port 4 (Onboard) 10GbE 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 2 (Option: XN-S1202) PCIe Expansion 2 (Option: XN-S1202)	Maximum Raw Capacity with Expansion Units	8,320TB
USB 2.0 Port 1 (Front) USB 3.0 Port 4 (Rear) HDMI Port 1 Others Console Port x1 LAN Port LAN Port 1 GbE RJ45 LAN Port 4 (Onboard) 1 0GbE RJ45 LAN Port 2 (Option: THBE10R2) 1 0GbE SFP+ LAN Port 2 (Option: XN-E1002) Thunderbolt 3 2 (Option: XN-TB302) Expansion Port 1 2Gb/s SAS Wide Port 2 (Option: XN-S1202) PCIe Expansion Gen3x8 Slot 1	Hot Swappable Drive	yes
USB 3.0 Port 4 (Rear) HDMI Port 1 Others Console Port x1 LAN Port 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	External Port	
HDMI Port 1 Others Console Port x1 LAN Port Value 10GbE 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 2 (Option: XN-S1202) PCIe Expansion 2 (Option: XN-S1202)	USB 2.0 Port	1 (Front)
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	USB 3.0 Port	4 (Rear)
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	HDMI Port	1
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) PCle Expansion Gen3x8 Slot 1	Others	Console Port x1
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) PCle Expansion Gen3x8 Slot 1	LAN Port	
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) PCle Expansion Gen3x8 Slot 1	1GbE RJ45 LAN Port	4 (Onboard)
Thunderbolt 3 2 (Option: XN-TB302) Expansion Port 12Gb/s SAS Wide Port 2 (Option: XN-S1202) PCle Expansion Gen3x8 Slot 1	10GbE RJ45 LAN Port	2 (Option: THBE10R2)
Expansion Port 12Gb/s SAS Wide Port 2 (Option: XN-S1202) PCIe Expansion Gen3x8 Slot 1	10GbE SFP+ LAN Port	2 (Option: XN-E1002)
12Gb/s SAS Wide Port 2 (Option: XN-S1202) PCle Expansion Gen3x8 Slot 1	Thunderbolt 3	2 (Option: XN-TB302)
PCle Expansion Gen3x8 Slot 1	Expansion Port	
Gen3x8 Slot 1	12Gb/s SAS Wide Port	2 (Option: XN-S1202)
	PCIe Expansion	
Gen2x4 Slot 1	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 Bay
Net Weight (kg)	13.5
Gross Weight (kg)	14.9
Others	
System Fan	60mm x 60mm x 3 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

