XCubeNAS XN5008RE





QSAN Carrying Intel® Celeron® dual-core processor, providing a powerful multifunction data processing center for enterprises with maximum sequential write performance of up to 3,758MB/s and 4K IOPS 213,000 . Also using 12Gb/s SAS technology, with a large amount of storage space and high performance at the same time, suitable for a wide range of storage applications for 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).
- 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.

excellent CP values let you pain-free upgrade storage equipment.

- 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 3.5PB.

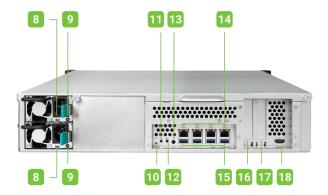
Application areas

- 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 XN5008RE

Apperance





| 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 |
| 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 CPU Processor Intel® Celeron®64-bit Dual-Core 2.9GHz Memory Memory System Flash 8GB USB DOM Memory Module Pre-installed 8GB DDR4 U-DIMM Total Memory Slots 4 Memory Expandable up to 64GB Storage From Company Expandable up to 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 SSD Drive Interface SATA 66b/s (backward compatible with SATA 3Gb/s) Maximum Raw Capacity with Expansion Units 8.320TB Maximum Raw Capacity with Expansion Units 8.320TB Hot Swappable Drive yes External Port UF (Front) USB 3.0 Port 4 (Rear) Console port 4 (Rear) Console port 4 (Rear) LAN Port 4 (Onboard) LOSE RAIS LAN Port 2 (Option: THBE10R2) LOGBE RIAS LAN Port 2 (Option: XN-E1002) Thunderbolt 3 | Haluwale Spec | |
|---|---|--|
| Processor Intel® Celeron®64-bit Dual-Core 2.9GHz Memory System Flash 8GB USB DOM Memory Module Pre-installed 8GB DDR4 U-DIMM Total Memory Slots 4 Memory Expandable up to 64GB Storage From Passon 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 SSD Drive Interface SATA 6Gb/s (backward compatible with SATA 3Gb/s) Maximum Internal Raw Capacity 160TB Maximum Raw Capacity with Expansion Units 8,320TB Hot Swappable Drive yes External Port USB 3.0 Port 4 (Rear) Console port 1 HDMI Port 1 LAN Port 4 (Onboard) LOGBE RJ45 LAN Port 2 (Option: THBE10R2) 10GbE RJ45 LAN Port 2 (Option: XN-E1002) Thunderbolt 3 2 (Option: XN-E1002) PCIE Expansion 1 Gen3x8 Slot 1 | Architecture | All-in-one |
| Memory System Flash 8GB USB DOM Memory Module Pre-installed 8GB DDR4 U-DIMM Total Memory Slots 4 Memory Expandable up to 64GB 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 HDD, 2.5" SATA SSD Drive Interface SATA 6Gb/s (backward compatible with SATA 3Gb/s) Maximum Internal Raw Capacity 160TB Maximum Raw Capacity with Expansion Units 8,320TB Hot Swappable Drive yes External Port USB 3.0 Port USB 3.0 Port 4 (Rear) Console port 1 HDMI Port 1 EAN Port 4 (Onboard) 10GbE RJ45 LAN Port 2 (Option: THBE10R2) 10GbE RJ45 LAN Port 2 (Option: XN-E1002) Thunderbolt 3 2 (Option: XN-E1002) PCIE Expansion 1 | CPU | |
| System Flash 8GB USB DOM Memory Module Pre-installed 8GB DDR4 U-DIMM Total Memory Slots 4 Memory Expandable up to 64GB Storage Drive Bays 3.5° Slot x 8 Maximum Drive Bays with Expansion Unit 41G Compatible Drive Type 3.5° SATA HDD, 2.5° SATA HDD, 2.5° SATA SD Drive Interface SATA 6Gb/s (backward compatible with SATA 3Gb/s) Maximum Internal Raw Capacity 160TB 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) Console port 1 HDMI Port 1 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-E1002) PCIE Expansion 1 | Processor | Intel® Celeron®64-bit Dual-Core 2.9GHz |
| Memory Module Pre-installed 8GB DDR4 U-DIMM Total Memory Slots 4 Memory Expandable up to 64GB Storage UST STORE S | Memory | |
| Total Memory Slots 4 Memory Expandable up to 64GB Storage | System Flash | 8GB USB DOM |
| Memory Expandable up to64GBStorageDrive Bays3.5" Slot x 8Maximum Drive Bays with Expansion Unit416Compatible Drive Type3.5 "SATA HDD, 2.5" SATA SSDDrive InterfaceSATA 6Gb/s (backward compatible with SATA 3Gb/s)Maximum Internal Raw Capacity160TBMaximum Raw Capacity with Expansion Units8,320TBHot Swappable DriveyesExternal Port(Front)USB 2.0 Port1(Front)USB 3.0 Port4 (Rear)Console port1HDMI Port1LGN Port11GbE RJ45 LAN Port4 (Onboard)10GbE RJ45 LAN Port2 (Option: THBE10R2)10GbE SFP+ LAN Port2 (Option: XN-E1002)Thunderbolt 32 (Option: XN-E302)PCIE ExpansionFCIE ExpansionGen3x8 Slot1 | Memory Module Pre-installed | 8GB DDR4 U-DIMM |
| StorageDrive Bays3.5" Slot x 8Maximum Drive Bays with Expansion Unit416Compatible Drive Type3.5 " SATA HDD, 2.5" SATA SDDDrive InterfaceSATA 6Gb/s (backward compatible with SATA 3Gb/s)Maximum Internal Raw Capacity160TBMaximum Raw Capacity with Expansion Units8,320TBHot Swappable DriveyesExternal PortUSB 2.0 Port1(Front)USB 3.0 Port4 (Rear)Console port1HDMI Port1LAN Port1LAN Port4 (Onboard)10GbE RJ45 LAN Port2 (Option: THBE10R2)10GbE SFP+ LAN Port2 (Option: XN-E1002)Thunderbolt 32 (Option: XN-TB302)PCIE ExpansionPCIE ExpansionGen3x8 Slot1 | 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 SSD Drive Interface SATA 6Gb/s (backward compatible with SATA 3Gb/s) Maximum Internal Raw Capacity 160TB Maximum Raw Capacity with Expansion Units 8,320TB Hot Swappable Drive yes External Port (Front) USB 2.0 Port 1(Front) USB 3.0 Port 4 (Rear) Console port 1 HDMI Port 1 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) PCIE Expansion 6en3x8 Slot 1 | Memory Expandable up to | 64GB |
| Maximum Drive Bays with Expansion Unit 416 Compatible Drive Type 3.5 " SATA HDD, 2.5" SATA SSD Drive Interface SATA 6Gb/s (backward compatible with SATA 3Gb/s) Maximum Internal Raw Capacity 160TB 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) Console port 1 HDMI Port 1 LAN Port 1GbE RJ45 LAN Port 4 (Onboard) 10GbE RJ45 LAN Port 2 (Option: THBE10R2) 10GbE SFP+ LAN Port 2 (Option: THBE10R2) Thunderbolt 3 (2 (Option: XN-E1002) Thunderbolt 3 (2 (Option: XN-E1002) PCIE Expansion Gen3x8 Slot 1 | Storage | |
| Compatible Drive Type3.5 " SATA HDD, 2.5" SATA HDD, 2.5" SATA SSDDrive InterfaceSATA 6Gb/s (backward compatible with SATA 3Gb/s)Maximum Internal Raw Capacity160TBMaximum Raw Capacity with Expansion Units8,320TBHot Swappable DriveyesExternal PortUSB 2.0 Port1(Front)USB 2.0 Port4 (Rear)Console port1HDMI Port1LAN Port11GbE RJ45 LAN Port4 (Onboard)10GbE RJ45 LAN Port2 (Option: THBE10R2)10GbE SFP+ LAN Port2 (Option: XN-E1002)Thunderbolt 32 (Option: XN-TB302)PCIE ExpansionPCIE ExpansionGen3x8 Slot1 | Drive Bays | 3.5" Slot x 8 |
| Drive Interface SATA 6Gb/s (backward compatible with SATA 3Gb/s) Maximum Internal Raw Capacity | 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 1(Front) USB 3.0 Port 4 (Rear) Console port 1 HDMI Port 1 LAN Port 4 (Onboard) 10GbE RJ45 LAN Port 4 (Onboard) 10GbE SFP+ LAN Port 2 (Option: THBE10R2) 10mderbolt 3 2 (Option: XN-E1002) Thunderbolt 3 2 (Option: XN-TB302) PCIe Expansion 5 Gen3x8 Slot 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) Console port 1 HDMI Port 1 LAN Port 1 GbE 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) PCIe Expansion Gen3x8 Slot 1 | Drive Interface | SATA 6Gb/s (backward compatible with SATA 3Gb/s) |
| Hot Swappable Drive yes External Port (Front) USB 2.0 Port 1 (Front) USB 3.0 Port 4 (Rear) Console port 1 HDMI Port 1 LAN Port 1 106E 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) PCIe Expansion 5 Gen3x8 Slot 1 | Maximum Internal Raw Capacity | 160TB |
| External Port USB 2.0 Port 1(Front) USB 3.0 Port 4 (Rear) Console port 1 HDMI Port 1 LAN 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) PCIe Expansion Gen3x8 Slot Gen3x8 Slot 1 | Maximum Raw Capacity with Expansion Units | 8,320TB |
| USB 2.0 Port 1(Front) USB 3.0 Port 4 (Rear) Console port 1 HDMI Port 1 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) PCIe Expansion Gen3x8 Slot 1 | Hot Swappable Drive | yes |
| USB 3.0 Port 4 (Rear) Console port 1 HDMI Port 1 LAN Port LGBE 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) PCIe Expansion Gen3x8 Slot 1 | External Port | |
| Console port 1 HDMI Port 1 LAN Port IGBE 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) PCIe Expansion Gen3x8 Slot 1 | USB 2.0 Port | 1(Front) |
| HDMI 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) 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) PCIe Expansion Gen3x8 Slot 1 | Console 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) PCIe Expansion Gen3x8 Slot 1 | HDMI Port | _1 |
| 10GbE RJ45 LAN Port 2 (Option: THBE10R2) 10GbE SFP+ LAN Port 2 (Option: XN-E1002) Thunderbolt 3 2 (Option: XN-TB302) PCIe Expansion Gen3x8 Slot 1 | LAN Port | |
| 10GbE SFP+ LAN Port 2 (Option: XN-E1002) Thunderbolt 3 2 (Option: XN-TB302) PCle Expansion Gen3x8 Slot 1 | 1GbE RJ45 LAN Port | 4 (Onboard) |
| Thunderbolt 3 2 (Option: XN-TB302) PCIe Expansion Gen3x8 Slot 1 | 10GbE RJ45 LAN Port | 2 (Option: THBE10R2) |
| PCIe Expansion Gen3x8 Slot 1 | 10GbE SFP+ LAN Port | 2 (Option: XN-E1002) |
| Gen3x8 Slot 1 | Thunderbolt 3 | 2 (Option: XN-TB302) |
| | PCIe Expansion | |
| Gen3x4 Slot 1 | Gen3x8 Slot | 1 |
| | Gen3x4 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) | 12.7 |
| Gross Weight (kg) | 14.1 |
| Others | |
| System Fan | 60mm x 60mm x 3 pcs |
| Power Recovery | yes |
| Scheduled Power On/Off | yes |
| Wake on LAN/WAN | yes |
| Power Supply Unit / Adapter | 250W x2 |
| AC Input Power Voltage | 100V-240V |
| Power Frequency | 50-60 Hz, Single Phase |
| Power Consumption | 231 W (Access) 111 W (HDD Hibernation) |
| British Thermal Unit | 788 BTU/hr (Access) 379 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 |

