XCubeNAS
XN8024R

QSAN

Ultra-high Performance and Virtualization Ready

With Intel® Xeon® D quad-core processor, built-in 10GbE network ports and SAS wide ports, the XN8024R provides maximum sequential write performance of up to 2,360MB/s and 4K IOPS 184,917. Connecting with expansion units, the XN8024 can install up to 216 disks, which brings the storage capacity support up to 3.5 PB. Fully modularized design makes major components easily to replace and upgrade. The unify storage design brings the device to support file storage, iSCSI and Fiber channel, which is the best choice for multi-functional data processing and data center on SMEs.
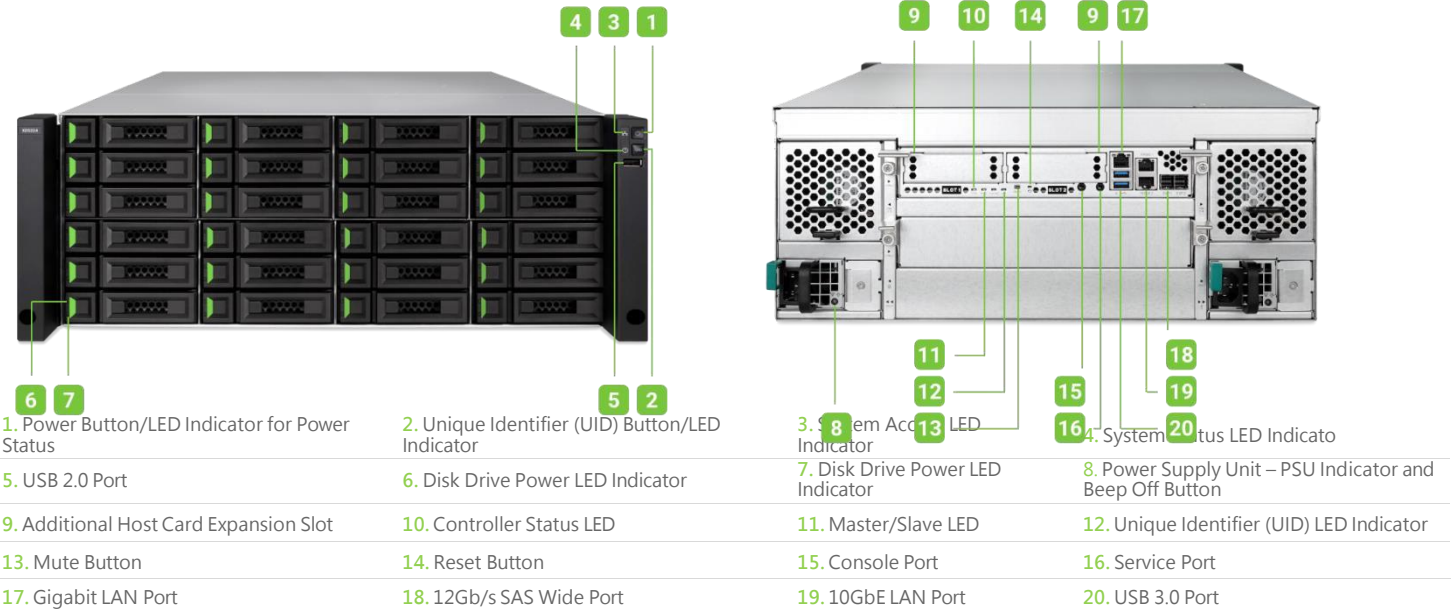
Product Features

- With High performance and expansion by using 12Gb/s technology, maximum space up to 3.5PB.
- Standard 10GbE LAN (RJ45) x 2, 12Gb/s SAS wide port x 2.
- Full modularized design - The main components including controller, power supply and fan module can be easily replaced and upgraded.
- Fully redundant PSU (80 PLUS Platinum).
- Standard 8GB memory and maximum memory capacity support up to 128GB.
- Unified Storage - Integrated storage system supports block and file storage simultaneously and following protocols, iSCSI, CIFS, NFS, FTP, WebDAV, 16G double-port fiber channel and AFP.
- Universal and Efficient Data Backup - XMirror supports permission backup , disaster recovery and flexible protection between multiple NAS devices.
- Comprehensive Data Security - Pool Military level encryption with AES-256, Write Once Read Many (WORM) , Self-Encrypting Drive (SED).
- Advanced Enterprise Storage Technology - Auto-Tiering, Inline Compression, Deduplication.

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 XN8024R

Appearance

1. Power Button/LED Indicator for Power Status	**2.** Unique Identifier (UID) Button/LED Indicator
5. USB 2.0 Port	**6.** Disk Drive Power LED Indicator
9. Additional Host Card Expansion Slot	**10.** Controller Status LED
13. Mute Button	**14.** Reset Button
17. Gigabit LAN Port	**18.** 12Gb/s SAS Wide Port

3. System Access LED Indicator
7. Disk Drive Power LED Indicator
11. Master/Slave LED
15. Console Port
19. 10GbE LAN Port

4. System Status LED Indicato
8. Power Supply Unit – PSU Indicator and Beep Off Button
12. Unique Identifier (UID) LED Indicator
16. Service Port
20. USB 3.0 Port

Hardware Spec

Architecture	Single Controller
CPU	
Processor	Intel® Xeon® D 64-bit Quad-Core 2.2GHz
Memory	
System Flash	8GB SATA DOM
Memory Module Pre-installed	8GB DDR4 ECC U-DIMM
Total Memory Slots	4
Memory Expandable up to	128 GB
Storage	
Drive Bays	3.5" Slot x 24
Maximum Drive Bays with Expansion Unit	432
Compatible Drive Type	3.5 " SATA HDD, 3.5" SAS HDD, 2.5" SATA HDD, 2.5" SATA SSD, 2.5" SAS SSD
Drive Interface	SAS 12Gb/s and SATA 6Gb/s (backward compatible with SAS 6Gb/s and SATA 3Gb/s)
Maximum Internal Raw Capacity	480TB
Maximum Raw Capacity with Expansion Units	8,640TB
Hot Swappable Drive	yes
External Port	
USB 2.0 Port	1 (Front)
USB 3.0 Port	2 (Rear)
Others	Console Port x1
LAN Port	
1GbE RJ45 LAN Port	1 (Onboard), 4 (Option: HQ-01G4T)
10GbE RJ45 LAN Port	2 (Onboard), 2 (Option: HQ-10G2T)
10GbE SFP+ LAN Port	4 (Option: HQ-10G4S2)
25GbE SFP28 LAN Port	2 (Option)
16Gb SFP+ Fibre Channel	4 (Option: HQ-16F4S2), 2 (Option: HQ-16F2S2)
Expansion Port	
12Gb/s SAS Wide Port	2 (Onboard)
PCIe Expansion	
Gen3x8 Slot	1
Gen2x4 Slot	1

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Appearance

Dimension (H x W x D) (mm)	170.3 x 438 x 515
Chassis Form Factor	19" Rackmount 4U 24 Bay
Net Weight (kg)	26
Gross Weight (kg)	30.3

Others

System Fan	80mm x 80mm x 4 pcs
Replaceable System Fan	yes
Power Recovery	yes
Scheduled Power On/Off	yes
Wake on LAN/WAN	yes
Power Supply Unit / Adapter	770W/850W x 2 (80 PLUS Platinum)
Redundant Power Supply	Yes
AC Input Power Voltage	100V-240V
Power Frequency	50-60 Hz, Single Phase
Power Consumption	265 W (Access), 257 W (HDD Hibernation)
British Thermal Unit	902 BTU/hr (Access), 876 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