QSAN Unified Storage

XCubeNXT 8024D

All In One Unified Storage

Key Benefits

All in One

- Replace the file/virtual server and integrate all applications.
- File sharing across all platforms
- by supporting multiple file access protocols.
- RAID Type and Instant RAID for various application scenarios.

Enterprise-Grade

- Ransomware/cyber-attack protection by WORM, SED, and Pool encryption.
- Sync data among branch offices and build up an enterprise private cloud with XMirror.
- Store data more efficiently with built-in enterprise feature.
- Avoid data lost in a power failure by memory cache protection.

Scalable

- Support 432bays, no need to re-buy storage for expansion.
- Scale-out everything instantly, includes generational upgrades.

Enterprise-Level Unified Storage For Business Environments

XCubeNXT 8024D is QSAN® next-generation enterprise-grade midrange unified storage providing various high-end enterprise functions, dual-active controller design 99.9999% availability unified storage, which is the best large-scale storage and multi-function data center for small and medium-sized enterprises.

One Storage For All Platforms

Unified storage can replace the file server, integrate applications, and virtual servers and it can also simplify the process of integrating storage through the existing network.

- Multi protocols support of NFS/CIFS/iSCSI for all application.
- Support Windows AD and LDAP Directory Services and Windows ACLs and advanced ACL for stable file service.

Faster Storage Easier Configuration

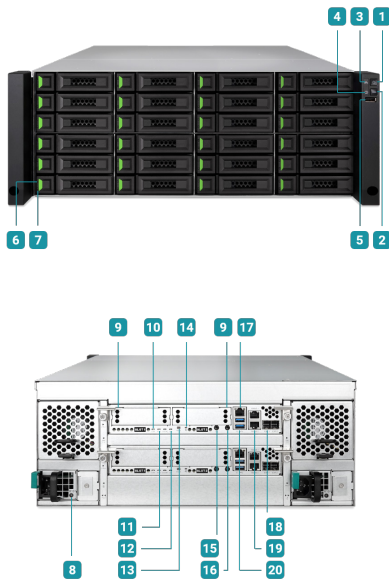XN8012D provides many tools to accelerate application execution efficiency which are very simple to use.

- **Intuitive load balancing**- Automatically select the right path that fits your current workload.
- **Application efficiency**- Support 16GbE/32GbE Fibre channel and 25GbE/32GbE provide different application scenarios.
- **Smart SSD cache**- One SSD to provide both read and write cache to achieve cost-efficiency without compromising performance.
- **Intuitive load balancing**- Automatically select the right path that fits your current workload.

Enterprise Function

Secured, centralized repository and storage efficiency for business information.

- **Protect against ransomware and cyber attack**- Complete support for block and file-level transmission protection and self-encrypting drives (SED), and use WORM and military-grade AES 256 pool encryption technology to protect your data.
- **Enterprise private cloud**- XMirror to sync your data among branches office, break geology limitation, and have files accessible just like in the same cloud.
- **Deduplication**- With deduplication, QSM will auto remove the redundant data object to reduce the usage of storage capacity.
- **Compression**- Helping ITs to reduce the amount of storage you need to purchase and maintain.

QSAN

Appearance

1. Enclosure Power Button / LED
2. UID (Unique Identifier) Button / LED
3. Enclosure Access LED
4. Enclosure Status LED
5. USB Port
6. Disk Drive Power LED
7. Disk Drive Status LED
8. PSU Indicator and Beep Off Button
9. Controller Status LED
10. Master / Slave LED (only for dual controllers)
11. Dirty Cache LED
12. UID (Unique Identifier) LED
13. Host Card Slot 1 (host card is an optional part)
14. Host Card Slot 2 (host card is an optional part)
15. Buzzer Mute Button
16. Reset to Factory Default Button
17. Management Port
18. Console Port
19. Service Port
20. USB Port
21. 10GbE iSCSI Port
22. 12Gb/s SAS Wide Port

System Spec

Architecture	Active-Active dual-controller
CPU	
CPU	Intel® Xeon® 64-bit Quad-Core (Also support 8 core model)
Memory	
System Flash	16GB USB DOM
Memory Module Pre-installed	16GB DDR4 ECC DIMM (per controller)
Memory Expandable up to	4 x 32 = 128GB (per controller)
Storage	
Drive Bays	3.5" Slot x 24
Maximum Drive Bays with Expansion Unit	432
Compatible Drive Type	3.5" SAS HDD / SAS SED HDD, 3.5" NL-SAS HDD / NL-SAS SED HDD, 2.5" SAS SSD / SAS SED SSD 2.5" SATA SSD / SATA SED SSD (*), 2.5" SAS HDD / SAS SED HDD, 2.5" NL-SAS HDD / NL-SAS SED HDD (*) In dual-controller system, 2.5"SATA HHD need 6G MUX board
Drive Interface	SAS 12Gb/s
Maximum Internal Raw Capacity	432TB
Maximum Raw Capacity with Expansion Units	7,776TB
Hot Swappable Drive	Yes
Connective port	
USB 2.0 Port	1 (Front)
USB 3.0 Port	2 (Rear)
Others	UPS Port x 1, Controller port x 1
1GbE RJ45 LAN Port	1 (Onboard)
10GbE RJ45 LAN Port	2 (Onboard) / 2 iSCSI (Option: HQ-10G2T)
10GbE SFP+ LAN Port	4 iSCSI (Option: HQ-10G4S2)
25GbE SFP28 LAN Port	2 iSCSI (Option: RHCE25P2)
16Gb SFP+ Fibre Channel	4 FCP (Option: HQ-16F4S2) / 2 FCP (Option: HQ-16F2S2)

Expansion Port	
12Gb/s SAS Wide Port	2 (onboard)
PCIe Expansion	1 x Gen3x8, 1 x Gen2x4
Function	
Max Pools	4 (Recommendation)
Max LUN	4096
Max LUN Size	Unlimited (Depends on pool size)
Max Snapshot	4096
Security	SED, WORM, Pool Encryption
Support Protocols	FC, iSCSI, NFS, CIFS, FTP
Deduplication	Yes
Compression	Yes
SSD Cache	Yes (Read/Write in 1 SSD)
Virtualization	Hyper-V, VMware ready, VAAI, SRM, Citrix
Cache-to-Flash Module	Yes (Does not need Battery Backup Module)
Others	
System Fan	4 pcs(hot-swappable)
Power Recovery	Yes
Wake on LAN/WAN	Yes
Certification	CE, FCC, CCC, BSMI, VCCI, KCC
Standard warranty	3 years