

QSAN Unified Storage

XCubeNXT 8124

Enterprise Unified Storage in Simplicity

Key Benefits

Modern Simplicity

- QSM storage management system minimizes the learning curve and eases maintenance through an intuitive GUI
- Fast setup and data can be accessed in 5 minutes after installation
- Multiple protocol support and cross QSAN platform replication

Dependable Data Experience

- 99.9999% high availability design with no single point of failure
- Cache-to-flash to protect cache data in power outage
- Non-disruptive firmware upgrade ensures continuous data service with zero downtime

Flexible Expansion

- Dual controller with built-in 4-port 10
 GbE (SFP+) and maximum 26 host ports allows direct connection to multiple hosts without switches
- Outstanding scale-up capability up to 11 PB
- Wake-on-SAS allows you to remotely power on / off all cascaded XCubeDAS expansion units for power saving

Optimized Performance and Capacity for Mixed Workloads

The XCubeNXT 8124 (3.5" 4U 24-bay) is the newest generation of XCubeNXT that has the most optimized performance and capacity for mixed workloads. Highly available and secure with multiple protocol and cross QSAN platform support, it is designed to be ideal for applications in mission-critical data centers, containerization, virtualization, or media environments. Plus, backed by a 5-year limited warranty for proven enterprise-grade reliability.

Proven Simplicity - "Set and Forget" Data Services

QSM, a storage management system with intuitive GUI designs, helps to save time in storage deployment considerably. It also delivers unified storage features including support for a range of multi protocols (CIFS, NFS, FTP*, iSCSi, FCP*, etc.), complete RAID level protection, RAID EE, thin provisioning, SSD cache, auto-tiering, compression, inline decuplication, and more. With the help of an intuitive dashboard, managers can monitor storage status in real time.

Advanced Data Protection to Safeguard Assets

Built-in various backup methods such as snapshot, remote replication, rsync, cloud backup*, etc. to help you complete data backup and data integrity. In addition, a big leap forward, it can replicate to all QSAN storage platform to thoroughly protect your assets.

Secure Data and Secure Management

QSM continuously evolves our security level to protect data across storage and adhere to industry best practices. Supporting SED (Self-Encrypting Drives) coupled with WORM* will keep your sensitive data safe even if the drives are lost, stolen, or misplaced. Additionally, Windows ACL (Access Control List) and RBAC (Role-Based Access Control) helps to prevent unauthorized access to your data.

High Availability and Enterprise Reliability

The XCubeNXT series is a proven high availability unified storage system with full redundancy. Its dual-active architecture and cache-to-flash technology ensure optimal performance and resilience in critical situations.

Flexible I/O Modules and Scale-up Capacity as Needed

Each controller has two host card slots that can be configured as iSCSI, Fibre Channel, or a mix of both besides built-in 4-port 10 GbE iSCSI (SFP+). As a result, the series offers great flexibility with built-in 8-port 10 GbE iSCSI (SFP+) and up to 26 host ports in a dual-controller system. In addition, the XN8124 provides massive scale-up capabilities by connecting XCubeDAS or 3rd-party expansion units with up to 504 disk drives or 11 PB raw capacity for future data growth.

* The feature will be available in Q1, 2024.



Appearance





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

System Specification

Model Name	XN8124D	XN8124S
Architecture	Dual-active controller	Single-upgradeable controller
CPU		g.s spg. addabit dollarding
Processor	Intel® Xeon® 64-bit 4-core (8-core pr	ocessor models are also available)
Memory		
Memory Module Pre-installed	16 GB DDR4 ECC DIMM (per controller)	
Total Memory Slots	4 (per controller)	
Memory Expandable up to	256 GB (per controller)	
	230 GB (per controller)	
Storage Prive Bave	3.5" Slot x 24	
Drive Bays	3.5 SIOLX 24	
Maximum Drive Bays with Expansion Unit	504	
Compatible Drive Type	3.5" & 2.5" SAS, NL-SAS, SED HDD 2.5" SAS, SED SSD	3.5" & 2.5" SAS, NL-SAS, SED HDD 3.5" & 2.5" SATA(*) HDD 2.5" SAS, SATA(*), SED SSD
Drive Interface	SAS 12 Gb/s	SAS 12 Gb/s, SATA 6 Gb/s(*) (*) SATA drives only work with single controller systems
Maximum Internal Raw Capacity	528 TB (calculate 22 TB HDD)	
Maximum Raw Capacity with Expansion Units	11,088 TB (calculate 22 TB HDD)	
Hot Swappable Drive	Yes	
Connectivity Port		
PCle Expansion	(Gen3x8 Slot) x 2	
1 GbE RJ45 LAN Port	1 (onboard per controller)	
10 GbE SFP+ LAN Port	4 (onboard per controller) / 4 (option)	
10 GbE RJ45 LAN Port	4 (option)	
25 GbE SFP28 LAN Port	2 (option)	
16 Gb SFP+ Fibre Channel*	2 (option) / 4 (option)	
32 Gb SFP28 Fibre Channel*	2 (option)	
Expansion and External Port		
12 Gb/s SAS Wide Port	2 (onboard per controller)	
USB Port	1 (front) / 2 (rear)	
Others	Console Port x 1, Service Port (UPS) x 1	
Software Specification		
Storage OS	QSM 4	
RAID Type	0/1/3/5/6/10/30/50/60/5EE/6EE/50EE/60EE	
Storage Efficiency	Thin provisioning / Deduplication (option) / Compression (option)	
Software Acceleration	SSD cache / Auto tiering	
Data Protection	Snapshot / Asynchronous / Synchronous (option)	
Backup Services	Rsync / S3 backup / Cloud sync* / XMirror*	
'	SSL / SED / WORM* / RBAC / Windows ACL	
Security Support Protocols	CIFS / NFS / FTP* / AFP* / iSCSI / FCP*	
- 11	Web UI / Window AD / LDAP / RESTful API* / S.E.S. / LCM	
Management	vveb 01 / vvilidow AD / LDAP / REST	IUI AF I" / O.E.O. / LUIVI
Appearance	170.2 v 420 v E1F	
Dimension (H x W x D) (mm)	170.3 x 438 x 515	
Net Weight (kg)	25.9	
Gross Weight (kg)	28.3	
Others Memory Protection	Cooks to Elect (Owner 1997)	a L Floob Module\ (+:)
Memory Protection	Cache-to-Flash (Supercapacitor Module + Flash Module) (option)	
System Fan	4 pcs	
	850 W x 2 (80 PLUS Platinum)	
Power Supply Unit		
Power Supply Unit Power Consumption	648 W	
Power Supply Unit		

^{*} The feature will be available in Q1, 2024.



