

# XCubeNXT 8100 Series

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 16.7 PB
- Wake-on-SAS allows you to remotely power on / off all cascaded XCubeDAS expansion units for power saving

## Overview

The XCubeNXT 8100 series is an enterprise-level, dual-active storage system with full redundancy. It is an all-in-one storage solution that supports multiple protocols and enables cross QSAN platform replication, ensuring secure and easy backup storage. Excellent scale-up capabilities make it the primary choice for mission-critical data centers, containerization, virtualization, or media environments. Plus, backed by a 5-year limited warranty for proven enterprise-grade reliability.

## 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, XN8100 provides massive scale-up capabilities by connecting XCubeDAS or 3rd-party expansion units with up to 546 disk drives or 16.7 PB raw capacity for future data growth.

### Mission-Critical Data Centers



The XN8100 series optimizes data center productivity by providing robust storage solutions with advanced data protection, high availability, and streamlined management capabilities.

### Containerization



The XN8100 series offers a robust IT infrastructure and streamlines deployment while promoting microservices and DevOps practices to optimize development resources.

### Virtualization

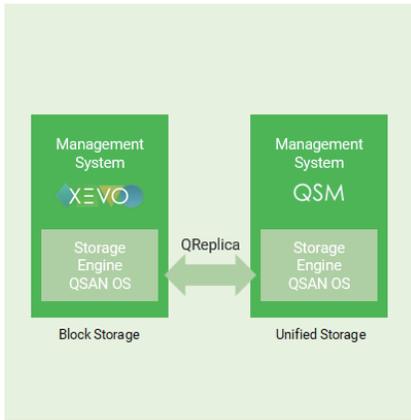
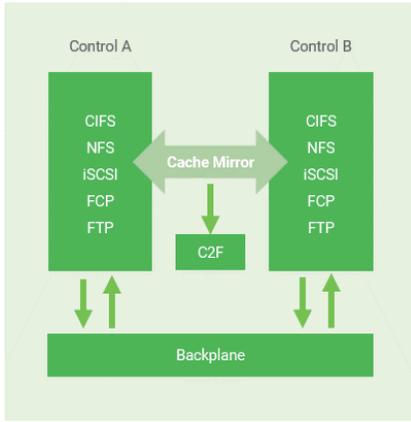


The XN8100 series can deploy multiple virtual machines with high IOPS and low latency. Even under plenty of real-time access, the virtual machine servers will not slow down.

### Media Editing



The XN8100 series improves the production efficiency of synchronized media and produces more animations. The workstations will not cause excessive processing time due to real-time collaboration.



### 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 deduplication, and more. With the help of an intuitive dashboard, managers can monitor storage status in real time.

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.

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

With the exponential growth of data, simplified management and scalability have become pivotal to modern IT. The XCubeNXT series provides a complete storage solution that accelerates data transmission and simplifies the complex management process from construction to maintenance. Enterprises can focus on value creation instead of operation management.

\* The feature will be available in Q1, 2024.

## XN8100 Series Specification Highlights



Model	XN8124D (Dual) XN8124S (Single)	XN8116D (Dual) XN8116S (Single)	XN8112D (Dual) XN8112S (Single)	XN8126D (Dual) XN8126S (Single)
Form Factor	4U 24-bay, LFF	3U 16-bay, LFF	2U 12-bay, LFF	2U 26-bay, SFF
Processor	Intel® Xeon® 64-bit 4-core (8-core processor models are also available)			
Memory	16 GB RAM DDR4 ECC-DIMM (up to 256 GB) (per controller)			
Max. Drive (Expansion Units)	504	496	492	546
Compatible Drive Type	3.5" & 2.5" SAS, NL-SAS, SED HDD 3.5" & 2.5" SATA(*) HDD 2.5" SAS, SATA(*), SED SSD			2.5" SAS, NL-SAS, SED HDD 2.5" SATA(*) HDD 2.5" SAS, SATA(*), SED SSD
Drive Interface	SAS 12 Gb/s, SATA 6 Gb/s(*) (*) SATA drives only work with single controller systems			
Max. Capacity (Expansion Units)	11,088 TB (calculate 22 TB HDD)	10,912 TB (calculate 22 TB HDD)	10,824 TB (calculate 22 TB HDD)	16,773 TB (calculate 30.72 TB SSD)
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)			
12 Gb/s SAS Wide Port	2 (onboard per controller)			
Certification	CE / FCC / BSMI			
Standard Warranty	System: 5 years / Supercapacitor Module: 1 year			

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