

XCubeNXT 5100 Series

Value-Optimized Unified Storage for SMB

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 5100 series is an enterprise-level, dual-active value-optimized unified storage for SMB. An all-in-one storage with compact architecture that supports multiple protocols and cross QSAN platforms, it provides vast scale-up power and reliability for mixed workloads and performance-demanding settings. It is designed for applications such as virtualization, file sharing, surveillance, or backup. 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, the XN5126 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.

Virtualization



The XN5100 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.

File Sharing



The XN5100 series is designed for seamless file sharing. Multiple protocol support enables files to be accessed simultaneously across different computing environments by multiple users anytime, anywhere.

Surveillance

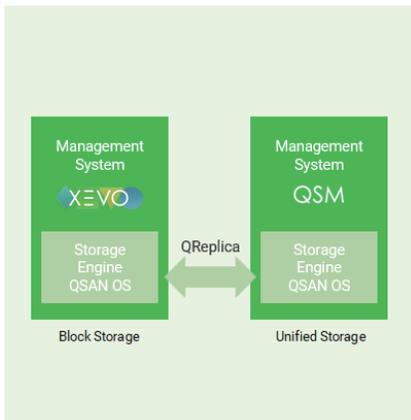
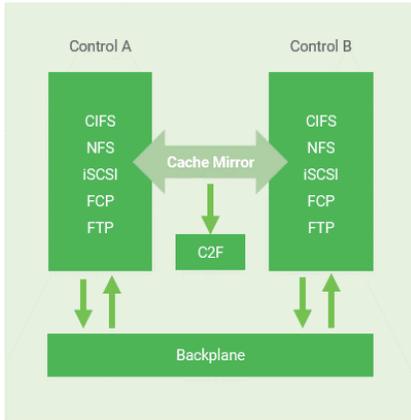


High-definition cameras bring higher bandwidth requirements, increased write speeds and storage capacity. The XN5100 series meets the performance requirements of thousands of cameras.

Backup



To protect against data loss and downtime events, QSM provides complete array-based backup functions including local backup and remote replication.



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.

XN5100 Series Specification Highlights



Model	XN5124D (Dual) XN5124S (Single)	XN5116D (Dual) XN5116S (Single)	XN5112D (Dual) XN5112S (Single)	XN5126D (Dual) XN5126S (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			
Memory	8 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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