QSAN Network Attached Storage

XCubeNAS 5104

Compact and Cost-Effective Rackmount NAS

Key Benefits

Performance Ready for Intensive Workloads

• Flash ready with optional 10 GbE to accelerate I/O-intensive workloads with nimble data transmission speeds, ensuring smooth user experience.

I/O Scale-Up for Large Bandwidth

• Scalability up to the multi-petabyte level, with no practical limitations to volume or pool size. Maximize availability according to your needs to conveniently store mission-critical data in a single pool.

Multi-Layer Security

• WORM (Write Once Read Many), pool encryption, and SED (Self-Encrypting Drive) allow powerful folder, pool, and drive levels of security that shield users from cyberattacks and physical theft.

Small Footprint and Scale as You Grow

The XCubeNAS 5104R (1U 6-bay) is a compact network attached system for SMB. The XCubeNAS series' small footprint saves on deployment costs, offering contemporary mobility and newfound scaling potential that allows expansion through JBOD. This model is optimized for versatile I/O expansion and reliable multi-layer security that ensures bulletproof data protection.

One Storage for All Platforms

XCubeNAS can replace the file server, integrate applications, and virtual servers. It can also simplify the process of integrating storage through the existing network.
• Multi protocols support of AFP / CIFS / FTP / iSCSI / NFS / WebDAV for all applications.
• Support Windows AD and LDAP Directory Services and Windows ACLs and advanced ACL for stable file service.

Complete Backup Solution from Local, Edge to Cloud

As data grows exponentially and is treated as the foundation for every business to drive innovation, a smart backup archiving strategy provided by XCubeNAS, based on comprehensive backup application and PB-level scalability, is the perfect solution for modern IT.
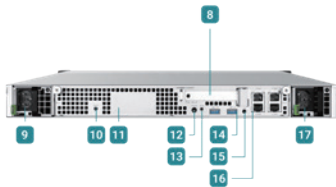• XMirror - Regularly synchronizes a volume or the contents of a folder between multiple XCubeNAS devices. Any modification to documents will be replicated to other XCubeNAS.
• Real-time Remote Replication - By periodically copying data to different branches, your data can be recovered when a disaster happens.
• Snapshot and Replica - Administrators can better control data versions and execute point-in-time recovery on folders and LUNs by snapshot.
• Cloud Backup and Sync - Support public cloud backup: Alibaba Cloud OSS, hicloud S3, Amazon S3 and S3 compatible storage. Support cloud synchronization: Google Drive, Microsoft OneDrive, Dropbox.

Protect Your Business from Any Threat

QSM continuously evolves our security level to protect data across storage and adhere to industry best practices from software to physical. Moreover, with a variety of built-in backup applications that help you complete data backup and data integrity. QSM can assure your assets are well-handled in our unified storage.

QSAN

Appearance

1. USB Port
2. Enclosure Status LED
3. Enclosure Access LED
4. Disk Drive Status LED
5. Disk Drive Power LED
6. UID (Unique Identifier) Button / LED
7. Enclosure Power Button / LED
8. Host Card Slot 1 (host card is an optional part)
9. Power Supply Unit 1
10. Reset to Factory Default Button
11. Empty
12. Console Port
13. Buzzer Mute Button
14. USB Port
15. UID (Unique Identifier) LED
16. 2.5 GbE (RJ45) LAN Port
17. Power Supply Unit 2

System Specification

Model Name	XN5104R
Architecture	Single Controller
CPU	
Processor	Intel® Xeon® 64-bit 2-core
Memory	
Memory Module Pre-installed	8 GB DDR4 ECC DIMM
Total Memory Slots	4
Memory Expandable up to	256 GB
Storage	
Drive Bays	3.5" Slot x 4 M.2 Slot x 2
Maximum Drive Bays with Expansion Unit	414
Compatible Drive Type	3.5" SATA HDD & 2.5" SATA SSD NVMe M.2 SSD
Drive Interface	SATA x 4 (6Gb/s) NVMe M.2 x 2 (PCIe Gen 3x2)
Maximum Internal Raw Capacity	96 TB
Maximum Raw Capacity with Expansion Units	9,072 TB
Hot Swappable Drive	Yes (M.2 slot does not support hot plugging)
Connectivity Port	
PCIe Expansion	(Gen4x8 Slot) x 1
2.5 GbE RJ45 LAN Port	4 (onboard)
10 GbE SFP+ LAN Port	2 (option)
10 GbE RJ45 LAN Port	2 (option)
Expansion and External Port	
12 Gb/s SAS Wide Port	2 (option)
USB Port	1 (front) / 2 (rear)
Others	Console port x 1
Software Specification	
Storage OS	QSM
RAID Type	0 / 1 / 5 / 6 / Z3 / 10 / 50 / 60
Storage Efficiency	Thin provisioning / Deduplication / Compression
Software Acceleration	Hybrid SSD cache / Auto tiering
Data Protection	Snapshot / Local volume clone
Remote Replication	Rsync / XMirror / Asynchronous
Security	SED / WORM / Pool encryption
Support Protocols	AFP / CIFS / FTP / iSCSI / NFS / WebDAV
Management	Web UI / Serial console / RESTful API / S.E.S. / LCM
Appearance	
Dimension (H x W x D) (mm)	44 x 438 x 510
Net Weight (kg)	9.1
Gross Weight (kg)	13.2
Others	
System Fan	2 pcs
Power Supply Unit	450 W x 2 (80 PLUS Platinum)
Power Input	100 - 240 VAC, 50 - 60 Hz
Power Consumption	137 W
British Thermal Unit	466 BTU
Certification	CE / FCC / BSMI
Standard Warranty	System: 3 years