

## Data Sheet



# 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.

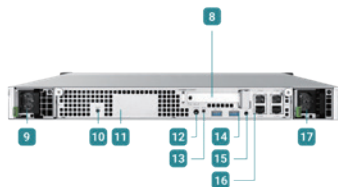
- **XMirror** Regularly synchronizes a volume or the contents of a folder between multiple XCubeNAS devices. Any modification to documents will be replicated to other XCubeNAS.
- **Real-time Remote Replication** By periodically copying data to different branches, your data can be recovered when a disaster 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, hcloud 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.



## 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

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