



Data Sheet



Network Attached Storage

## XCubeNAS 8104

Compact and Bandwidth-Optimized for Demanding Workloads

### Key Benefits

#### Performance Ready for Intensive Workloads

- Flash ready with built-in quad 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.

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### Next Level Performance in Compact Form Factor

The XCubeNAS 8104R (1U 6-bay) is a compact yet powerful network attached storage system designed for the most demanding workloads. Designed for IT environments subject to space limitations, it can run all mainstream applications with ease to deliver superior, uncompromising server-grade performance for modern enterprise applications, versatile I/O expansion, and multi-layer security that ensure 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.

### Efficiently Data Store to Do More with Less

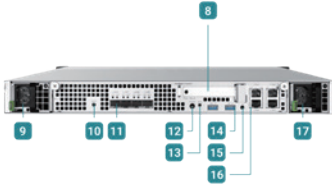
Your backup and archive size will become huge, so data efficiency is very important too. Every bit counts!

- **Deduplication** - With deduplication, QSM will auto remove the redundant data object to reduce the usage of storage capacity.
- **Compression** - Helping IT reduce the amount of storage you need to purchase and maintain.
- **Thin Provisioning** - Without limiting how much of the quota can be used by each. With thin provisioning, your business applications can achieve higher flexibility and promising potentials.
- **Hybrid SSD Cache** - Comprehensive performance-oriented, improved design. One SSD to provide both read and write cache to achieve cost-efficiency without compromising performance.

### 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. 10 GbE (SFP+) LAN Port
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>	XN8104R
Architecture	Single Controller
<b>CPU</b>	
Processor	Intel® Xeon® 64-bit 4-core
<b>Memory</b>	
Memory Module Pre-installed	8 GB DDR4 ECC DIMM
Total Memory Slots	4
Memory Expandable up to	256 GB
<b>Storage</b>	
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)
<b>Connectivity Port</b>	
PCIe Expansion	(Gen4x8 Slot) x 1
2.5 GbE RJ45 LAN Port	4 (onboard)
10 GbE SFP+ LAN Port	4 (onboard) / 2 (option)
10 GbE RJ45 LAN Port	2 (option)
<b>Expansion and External Port</b>	
12 Gb/s SAS Wide Port	2 (option)
USB Port	1 (front) / 2 (rear)
Others	Console port x 1
<b>Software Specification</b>	
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
<b>Appearance</b>	
Dimension (H x W x D) (mm)	44 x 438 x 510
Net Weight (kg)	9.1
Gross Weight (kg)	13.2
<b>Others</b>	
System Fan	2 pcs
Power Supply Unit	450 W x 2 (80 PLUS Platinum)
Power Input	100 - 240 VAC, 50 - 60 Hz
Power Consumption	155 W
British Thermal Unit	528 BTU
Certification	CE / FCC / BSMI
Standard Warranty	System: 3 years