

QSAN 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.

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

Model NameXN8104RArchitectureSingle ControllerCPUProcessorIntel® Xeon® 64-bit 4-coreMemoryMemory Module Pre-installed8 GB DDR4 ECC DIMMTotal Memory Slots4Memory Expandable up to256 GBStorageDrive Bays3.5° Slot x 4 M.2 Slot x 2Maximum Drive Bays with Expansion Unit414Compatible Drive Type3.5° SATA HDD & 2.5° SATA SSD NVMe M.2 SSDDrive InterfaceSATA x 4 (6Gb/s) NVMe M.2 x 2 (PCIe Gen 3x2)Maximum Internal Raw Capacity with Expansion Units96 TBHot Swappable Drive Yes (M.2 slot does not support hot plugging)Connectivity PortYes (M.2 slot does not support hot plugging)10 GbE RJ45 LAN Port4 (onboard) / 2 (option)10 GbE RJ45 LAN Port2 (option)
Or CPUProcessorIntel® Xeon® 64-bit 4-coreMemoryMemoryMemoryMemory Module Pre-installed8 GB DDR4 ECC DIMMTotal Memory Slots4Memory Expandable up to256 GBStorageDrive BaysJrive Bays3.5" Slot x 4 M.2 Slot x 2Maximum Drive Bays with Expansion Unit414Compatible Drive Type3.5" SATA HDD & 2.5" SATA SSD NVMe M.2 SSDDrive InterfaceSATA x 4 (66b/s) NVMe M.2 x 2 (PCIe Gen 3x2)Maximum Internal Raw Capacity96 TBMaximum Raw Capacity with Expansion Units9,072 TBHot Swappable Drive PCIe ExpansionYes (M.2 slot does not support hot plugging)Connectivity Port PCIe Expansion(Gen4x8 Slot) x 1 4 (onboard)10 GbE SFP+ LAN Port4 (onboard) / 2 (option)
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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, and 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
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Dimension (H x W x D) (mm) 44 x 438 x 510 Net Weight (kg) 9.1 Gross Weight (kg) 13.2 Others 2 System Fan 2 pcs Power Supply Unit 450 W x 2 (80 PLUS Platinum)

