

Data Sheet



QSAN Network Attached Storage

XCubeNAS 8112R

Flash-Ready 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.

Flash-Ready for Performance Acceleration

The XCubeNAS 8112R (2U 18-bay) and 80112RE (2U 14-bay) are high-density network attached storage systems for SMB with mixed form factor expansion slots, for a total of up to 18 disks. Equipped with extra SSD bays which offer different configurations, the XCubeNAS' built-in M.2 and U.2 interfaces 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!

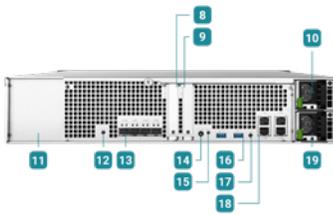
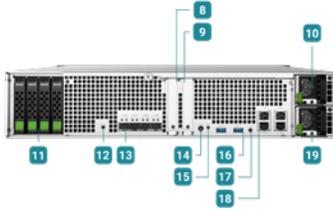
- **Deduplication** - With deduplication, QSM will auto remove the redundant data object to reduce the usage of storage capacity.
- **Compression** - Helping IT reduce the amount of storage you need to purchase and maintain.
- **Thin Provisioning** - Without limiting how much of the quota can be used 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.

QSAN

Appearance



1. Enclosure Status LED
2. Enclosure Access LED
3. Enclosure Power Button / LED
4. Disk Drive Status LED
5. Disk Drive Power LED
6. USB Port
7. UID (Unique Identifier) Button / LED
8. Host Card Slot 1 (host card is an optional part)
9. Host Card Slot 2 (host card is an optional part)
10. Power Supply Unit 1
11. 2.5" NVMe U.2 SSD (not supported in RE model)
12. Reset to Factory Default Button
13. 10 GbE (SFP+) LAN Port
14. Console Port
15. Buzzer Mute Button
16. USB Port
17. UID (Unique Identifier) LED
18. 2.5 GbE (RJ45) LAN Port
19. Power Supply Unit 2

System Specification

| Model Name | XN8112R | XN8112RE |
|---|---|---|
| Architecture | Single Controller | |
| CPU | | |
| Processor | Intel® Xeon® 64-bit 4-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 12 2.5" Slot x 4 M.2 Slot x 2 | 3.5" Slot x 12 M.2 Slot x 2 |
| Maximum Drive Bays with Expansion Unit | 426 | 422 |
| Compatible Drive Type | 3.5" SATA HDD & 2.5" SATA SSD 2.5" U.2 NVMe SSD M.2 NVMe SSD | 3.5" SATA HDD & 2.5" SATA SSD M.2 NVMe SSD |
| Drive Interface | SATA (6 Gb/s) U.2 NVMe (PCIe Gen 3x2) M.2 NVMe (PCIe Gen 3x2) | SATA (6 Gb/s) M.2 NVMe (PCIe Gen 3x2) |
| Maximum Internal Raw Capacity | 333 TB | 272 TB |
| Maximum Raw Capacity with Expansion Units | 9,309 TB | 9,248 TB |
| Hot Swappable Drive | Yes (M.2 slot does not support hot plugging) | |
| Connectivity Port | | |
| PCIe Expansion | (Gen 4x8 Slot) x 1, (Gen 4x4 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) | |
| 25 GbE SFP28 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) | 88.5 x 438 x 510 | |
| Net Weight (kg) | 11.6 | 11.1 |
| Gross Weight (kg) | 16.2 | 15.7 |
| 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 | 321 W | 271 W |
| British Thermal Unit | 1,096 BTU | 926 BTU |
| Certification | CE / FCC / BSMI | |
| Standard Warranty | System: 3 years | |