

### **QSAN Network Attached Storage**

# XCubeNAS 8100R

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 8100R series is high-density network attached storage system 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
- 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**

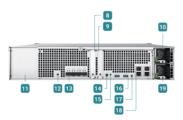
QSM continuously evolves our security level to protect data across storage and adhere to industry best practices from software to physical. Moreover, with a variety of built-in backup applications that help you complete data backup and data integrity. QSM can assure your assets are well-handled in our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



#### **Appearance**







- 1. 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® 4-core (8-core process	or models are also available)
Memory		
Memory Module Pre-installed	8 GB DDR4 ECC DIMM	
Total Memory Slots	4	
Memory Expandable up to	256 GB	
Storage		
	3.5" Slot x 12	3.5" Slot x 12
Drive Bays	2.5" Slot x 4 M.2 Slot x 2	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 plug-	ging)
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 4	
RAID Type	0/1/3/5/6/10/30/50/60/5EE/6EE/50EE/60EE	
Storage Efficiency	Thin provisioning / Deduplication* (option) / Compression* (option)	
Software Acceleration	SSD cache / Auto tiering / RDMA	
Data Protection	Snapshot / Asynchronous / Synchronous* (option)	
Backup Services	Rsync* / S3 backup* / Cloud sync* / XMirror* / Microsoft 365 email backup	
Security	SSL / SED / WORM / RBAC / Windows ACL / Antivirus	
Support Protocols	CIFS / NFS / FTP* / AFP* / iSCSI / FCP	
Management	Web UI / Window AD / LDAP / RES	Tful API* / S.E.S. / LCM
Appearance	00 v 420 v E1E	
Dimension (H x W x D) (mm)	88 x 438 x 515	11 1
Net Weight (kg)  Gross Weight (kg)	11.6 16.2	11.1
Others	10.4	10.7
System Fan	2 pcs	
Power Supply Unit	450 W x 2 (80 PLUS Platinum)	
Power Input	100 - 240 VAC, 50/60 Hz	
		271 W
Power Consumption  British Thermal Unit	321 W	271 W
Certification	1,096 BTU	926 BTU
	CE / FCC / BSMI	-coro)
Standard Warranty	System: 3 years (4-core) / 5 years (8	

 $<sup>\</sup>mbox{\ensuremath{\star}}$  The feature is still under developing, please contact QSAN for accurate release date.

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XN8104R Single Controller	
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Intel® Xeon® 4-core	
8 GB DDR4 ECC DIMM	
4	
256 GB	
3.5" Slot x 4 M.2 Slot x 2	
414	
3.5" SATA HDD & 2.5" SATA SSD 2.5" U.2 NVMe SSD M.2 NVMe SSD	
SATA (6 Gb/s) U.2 NVMe (PCIe Gen 3x2) M.2 NVMe (PCIe Gen 3x2)	
96 TB	
9,072 TB	
Yes (M.2 slot does not support hot plugging)	
(Gen 4x8 Slot) x 1	
4 (onboard)	
4 (onboard) / 2 (option)	
2 (option)	
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2 (option)	
1 (front) / 2 (rear)	
Console port x 1	
QSM 4	
0/1/3/5/6/10/30/50/60/5EE/6EE/50EE/60EE	
Thin provisioning / Deduplication* (option) / Compression* (option)	
SSD cache / Auto tiering / RDMA	
Snapshot / Asynchronous / Synchronous* (option)	
Rsync* / S3 backup* / Cloud sync* / XMirror* / Microsoft 365 email backup	
SSL / SED / WORM / RBAC / Windows ACL / Antivirus	
CIFS / NFS / FTP* / AFP* / iSCSI / FCP	
Web UI / Window AD / LDAP / RESTful API* / S.E.S. / LCM	
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13.2	
2 pcs	
450 W x 2 (80 PLUS Platinum)	
100 - 240 VAC, 50/60 Hz	
100 - 240 VAC, 50/60 Hz 155 W	
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