

QSAN Network Attached Storage

XCubeNAS 5100R

Capacity-Optimized 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.

Scale-Up Capacity as Needed to PBs

The XCubeNAS 5100R series is high-density network attached storage system that delivers the best value for its capacity and cost. Harboring powerful capabilities for I/O expansion, it provides a cost effective, comprehensive solution for file storage and backup, enabling flexible scaling to the multi-petabyte level to save additional investment by consolidating various application usages into one XCubeNAS.

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, hicloud S3, Amazon S3 and S3 compatible storage. Support cloud synchronization: Google Drive, Microsoft OneDrive, Dropbox.

Protect Your Business from Any Threat

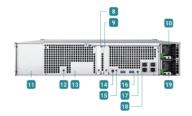
QSM continuously evolves our security level to protect data across storage and adhere to industry best practices from software to physical. Moreover, with a variety of built-in backup applications that help you complete data backup and data integrity. QSM can assure your assets are well-handled in our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



Appearance







- 1. 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
- $\textbf{11.} \ 2.5'' \ NVMe \ U.2 \ SSD \ (not \ supported \ in \ RE \ model)$
- 12. Reset to Factory Default Button
- 13. Empty
- 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	XN5112R	XN5112RE
Architecture	Single Controller	
CPU		
Processor	Intel® Xeon® 64-bit 2-core	
Memory		
Memory Module Pre-installed	8 GB DDR4 ECC DIMM	
Total Memory Slots	4	
Memory Expandable up to	256 GB	
Storage	200 00	
Storage	2 E" Clot y 10	
Drive Bays	3.5" Slot x 12 2.5" Slot x 4	3.5" Slot x 12
	M.2 Slot x 2	M.2 Slot x 2
Maximum Drive Bays	407	400
with Expansion Unit	426	422
	3.5" SATA HDD & 2.5" SATA SSD	3.5" SATA HDD & 2.5" SATA SSD
Compatible Drive Type	2.5" U.2 NVMe SSD	M.2 NVMe SSD
	M.2 NVMe SSD	
Drive Interfess	SATA (6 Gb/s)	SATA (6 Gb/s)
Drive Interface	U.2 NVMe (PCIe Gen 3x2) M.2 NVMe (PCIe Gen 3x2)	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 plugs	jing)
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	2 (option)	
10 GbE RJ45 LAN Port	2 (option)	
25 GbE SFP28 LAN Port	2 (option)	
Expansion and External Port	2 (00100)	
12 Gb/s SAS Wide Port	2 (option)	
USB Port	1 (front) / 2 (rear)	
Others	Console port x 1	
Software Specification		
	QSM	
Storage OS	•	
RAID Type	0 / 1 / 5 / 6 / Z3 / 10 / 50 / 60	0
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	1.5.4)/
Support Protocols	AFP / CIFS / FTP / iSCSI / NFS / W	
Management	Web UI / Serial console / RESTful A	PT/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	299 W	255 W
British Thermal Unit	1,020 BTU	869 BTU
Certification	CE / FCC / BSMI	

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Appearance





1. USB Port

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- 15. UID (Unique Identifier) LED
- 16. 2.5 GbE (RJ45) LAN Port
- 17. Power Supply Unit 2

System Specification

Model Name	XN5104R
Architecture	Single Controller
CPU	
Processor	Intel® Xeon® 64-bit 2-core
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 4
Drive Bays	M.2 Slot x 2
Maximum Drive Bays with Expansion Unit	414
Compatible Drive Type	3.5" SATA HDD & 2.5" SATA SSD M.2 NVMe SSD
Drive Interface	SATA (6 Gb/s) M.2 NVMe (PCle 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)
Connectivity Port	
PCIe Expansion	(Gen 4x8 Slot) x 1
2.5 GbE RJ45 LAN Port	4 (onboard)
10 GbE SFP+ LAN Port	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)	
	44 x 438 x 510
Net Weight (kg)	44 x 438 x 510 9.1
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Net Weight (kg) Gross Weight (kg)	9.1
Net Weight (kg) Gross Weight (kg) Others	9.1 13.2
Net Weight (kg) Gross Weight (kg) Others System Fan	9.1 13.2 2 pcs
Net Weight (kg) Gross Weight (kg) Others System Fan Power Supply Unit	9.1 13.2 2 pcs 450 W x 2 (80 PLUS Platinum)
Net Weight (kg) Gross Weight (kg) Others System Fan Power Supply Unit Power Input	9.1 13.2 2 pcs 450 W x 2 (80 PLUS Platinum) 100 - 240 VAC, 50/60 Hz
Net Weight (kg) Gross Weight (kg) Others System Fan Power Supply Unit Power Input Power Consumption	9.1 13.2 2 pcs 450 W x 2 (80 PLUS Platinum) 100 - 240 VAC, 50/60 Hz 137 W
Net Weight (kg) Gross Weight (kg) Others System Fan Power Supply Unit Power Input Power Consumption British Thermal Unit	9.1 13.2 2 pcs 450 W x 2 (80 PLUS Platinum) 100 - 240 VAC, 50/60 Hz 137 W 466 BTU

