

Data Sheet

QSAN Unified Storage

XN2 Series

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 XN2 series is high-density unified 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 XN2 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

XN2 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 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.

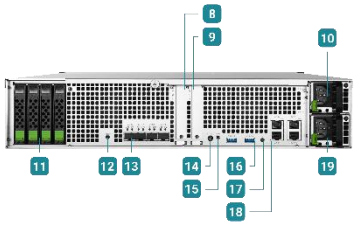
Protect Your Business from Any Threat

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
12. Reset to Factory Default Button
13. 10 GbE LAN Port
14. Console Port
15. Buzzer Mute Button
16. USB Port
17. UID (Unique Identifier) LED
18. 2.5 GbE LAN Port
19. Power Supply Unit 2

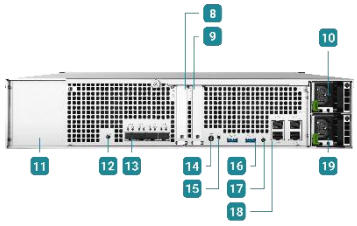
System Specification

Model Name	XN2216-8C	XN2216-4C
Architecture	Single controller	
CPU		
Processor	Intel® Xeon® 8-core	Intel® Xeon® 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	
Maximum Drive Bays with Expansion Unit	328	
Compatible Drive Type	3.5" SATA HDD & 2.5" SATA SSD 2.5" U.2 NVMe SSD M.2 NVMe SSD	
Drive Interface	SATA (6 Gb/s) U.2 NVMe (PCIe Gen 3) M.2 NVMe (PCIe Gen 3)	
Maximum Internal Raw Capacity	653 TB	
Maximum Raw Capacity with Expansion	11,261 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	
Max. 2.5 GbE LAN Port	4 (onboard)	
Max. 10 GbE LAN Port	8 (4 onboard)	
Max. 25 GbE LAN Port	4	
Expansion and External Port		
12 Gb/s SAS Wide Port	2 (option)	
USB Port	3	
Console Port	1	
Software Specification		
Storage OS	QSM 4	
RAID Type	0 / 1 / 5 / 6 / 10 / 50 / 60 / 5EE / 6EE / 50EE / 60EE / QDP (Dynamic Pool)	
Storage Efficiency	Thin provisioning / QCompact (Compression and Deduplication) (option)	
Software Acceleration	SSD cache / Auto tiering / RDMA	
Data Protection	Snapshot / Asynchronous / Synchronous (option) / QMetro (option)	
Backup Service	Rsync / S3 backup / Cloud backup / XMirror / Microsoft 365 email backup	
Security	SSL / SSH / iSCSI CHAP / ISE & SED / WORM / RBAC / Windows ACL / Antivirus / QSeal (AirGap Backup)	
Support Protocol	CIFS / NFS / FTP / WebDAV / iSCSI / FCP / NVMe-oF	
Management	Web UI / Windows AD / LDAP / RESTful API / S.E.S. / LCM	
Appearance		
Dimension (H x W x D) (mm)	88 x 438 x 515	
Net Weight (kg)	11.6	
Gross Weight (kg)	16.2	
Others		
System Fan	2 pcs	
Power Supply Unit	450 W x 2 (80 Plus Gold)	
Power Input	100 - 240 VAC, 50/60 Hz	
Power Consumption	321 W / 1,095 BTU	
Certification	CE / FCC / BSMI	
Standard Warranty	System: 5 years	System: 3 years

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19. Power Supply Unit 2

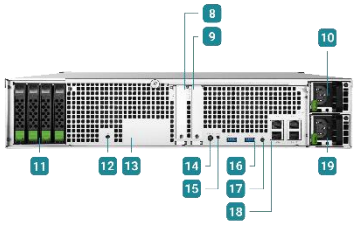
System Specification

Model Name	XN2212-8C	XN2212-4C
Architecture	Single controller	
CPU		
Processor	Intel® Xeon® 8-core	Intel® Xeon® 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 M.2 Slot x 2	
Maximum Drive Bays with Expansion Unit	324	
Compatible Drive Type	3.5" SATA HDD & 2.5" SATA SSD M.2 NVMe SSD	
Drive Interface	SATA (6 Gb/s) M.2 NVMe (PCIe Gen 3)	
Maximum Internal Raw Capacity	408 TB	
Maximum Raw Capacity with Expansion	11,016 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	
Max. 2.5 GbE LAN Port	4 (onboard)	
Max. 10 GbE LAN Port	8 (4 onboard)	
Max. 25 GbE LAN Port	4	
Expansion and External Port		
12 Gb/s SAS Wide Port	2 (option)	
USB Port	3	
Console Port	1	
Software Specification		
Storage OS	QSM 4	
RAID Type	0 / 1 / 5 / 6 / 10 / 50 / 60 / 5EE / 6EE / 50EE / 60EE / QDP (Dynamic Pool)	
Storage Efficiency	Thin provisioning / QCompact (Compression and Deduplication) (option)	
Software Acceleration	SSD cache / Auto tiering / RDMA	
Data Protection	Snapshot / Asynchronous / Synchronous (option) / QMetro (option)	
Backup Service	Rsync / S3 backup / Cloud backup / XMirror / Microsoft 365 email backup	
Security	SSL / SSH / iSCSI CHAP / ISE & SED / WORM / RBAC / Windows ACL / Antivirus / QSeal (AirGap Backup)	
Support Protocol	CIFS / NFS / FTP / WebDAV / iSCSI / FCP / NVMe-oF	
Management	Web UI / Windows AD / LDAP / RESTful API / S.E.S. / LCM	
Appearance		
Dimension (H x W x D) (mm)	88 x 438 x 515	
Net Weight (kg)	11.1	
Gross Weight (kg)	15.7	
Others		
System Fan	2 pcs	
Power Supply Unit	450 W x 2 (80 Plus Gold)	
Power Input	100 - 240 VAC, 50/60 Hz	
Power Consumption	271 W / 925 BTU	
Certification	CE / FCC / BSMI	
Standard Warranty	System: 5 years	System: 3 years

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10. Power Supply Unit 1
11. 2.5" NVMe U.2 SSD
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 LAN Port
19. Power Supply Unit 2

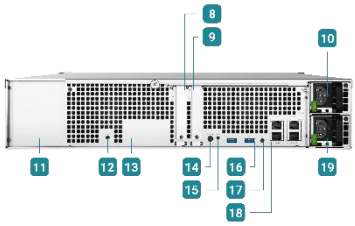
System Specification

Model Name	XN2216-2C
Architecture	Single controller
CPU	
Processor	Intel® Xeon® 2-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
Maximum Drive Bays with Expansion Unit	328
Compatible Drive Type	3.5" SATA HDD & 2.5" SATA SSD 2.5" U.2 NVMe SSD M.2 NVMe SSD
Drive Interface	SATA (6 Gb/s) U.2 NVMe (PCIe Gen 3) M.2 NVMe (PCIe Gen 3)
Maximum Internal Raw Capacity	653 TB
Maximum Raw Capacity with Expansion	11,261 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
Max. 2.5 GbE LAN Port	4 (onboard)
Max. 10 GbE LAN Port	4
Max. 25 GbE LAN Port	4
Expansion and External Port	
12 Gb/s SAS Wide Port	2 (option)
USB Port	3
Console Port	1
Software Specification	
Storage OS	QSM 4
RAID Type	0 / 1 / 5 / 6 / 10 / 50 / 60 / 5EE / 6EE / 50EE / 60EE / QDP (Dynamic Pool)
Storage Efficiency	Thin provisioning / QCompact (Compression and Deduplication) (option)
Software Acceleration	SSD cache / Auto tiering / RDMA
Data Protection	Snapshot / Asynchronous / Synchronous (option) / QMetro (option)
Backup Service	Rsync / S3 backup / Cloud backup / XMirror / Microsoft 365 email backup
Security	SSL / SSH / iSCSI CHAP / ISE & SED / WORM / RBAC / Windows ACL / Antivirus / QSeal (AirGap Backup)
Support Protocol	CIFS / NFS / FTP / WebDAV / iSCSI / FCP / NVMe-oF
Management	Web UI / Windows AD / LDAP / RESTful API / S.E.S. / LCM
Appearance	
Dimension (H x W x D) (mm)	88 x 438 x 515
Net Weight (kg)	11.6
Gross Weight (kg)	16.2
Others	
System Fan	2 pcs
Power Supply Unit	450 W x 2 (80 Plus Gold)
Power Input	100 - 240 VAC, 50/60 Hz
Power Consumption	299 W / 1,020 BTU
Certification	CE / FCC / BSMI
Standard Warranty	System: 3 years

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16. USB Port
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18. 2.5 GbE LAN Port
19. Power Supply Unit 2

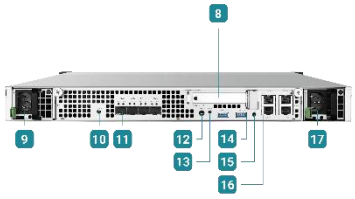
System Specification

Model Name	XN2212-2C
Architecture	Single controller
CPU	
Processor	Intel® Xeon® 2-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 M.2 Slot x 2
Maximum Drive Bays with Expansion Unit	324
Compatible Drive Type	3.5" SATA HDD & 2.5" SATA SSD M.2 NVMe SSD
Drive Interface	SATA (6 Gb/s) M.2 NVMe (PCIe Gen 3)
Maximum Internal Raw Capacity	408 TB
Maximum Raw Capacity with Expansion	11,016 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
Max. 2.5 GbE LAN Port	4 (onboard)
Max. 10 GbE LAN Port	4
Max. 25 GbE LAN Port	4
Expansion and External Port	
12 Gb/s SAS Wide Port	2 (option)
USB Port	3
Console Port	1
Software Specification	
Storage OS	QSM 4
RAID Type	0 / 1 / 5 / 6 / 10 / 50 / 60 / 5EE / 6EE / 50EE / 60EE / QDP (Dynamic Pool)
Storage Efficiency	Thin provisioning / QCompact (Compression and Deduplication) (option)
Software Acceleration	SSD cache / Auto tiering / RDMA
Data Protection	Snapshot / Asynchronous / Synchronous (option) / QMetro (option)
Backup Service	Rsync / S3 backup / Cloud backup / XMirror / Microsoft 365 email backup
Security	SSL / SSH / iSCSI CHAP / ISE & SED / WORM / RBAC / Windows ACL / Antivirus / QSeal (AirGap Backup)
Support Protocol	CIFS / NFS / FTP / WebDAV / iSCSI / FCP / NVMe-oF
Management	Web UI / Windows AD / LDAP / RESTful API / S.E.S. / LCM
Appearance	
Dimension (H x W x D) (mm)	88 x 438 x 515
Net Weight (kg)	11.1
Gross Weight (kg)	15.7
Others	
System Fan	2 pcs
Power Supply Unit	450 W x 2 (80 Plus Gold)
Power Input	100 - 240 VAC, 50/60 Hz
Power Consumption	255 W / 870 BTU
Certification	CE / FCC / BSMI
Standard Warranty	System: 3 years

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12. Console Port
13. Buzzer Mute Button
14. USB Port
15. UID (Unique Identifier) LED
16. 2.5 GbE LAN Port
17. Power Supply Unit 2

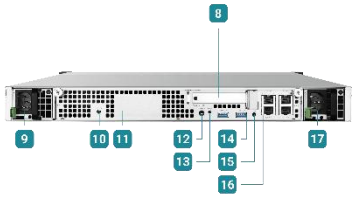
System Specification

Model Name	XN2204-4C
Architecture	Single controller
CPU	
Processor	Intel® Xeon® 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 4 M.2 Slot x 2
Maximum Drive Bays with Expansion Unit	316
Compatible Drive Type	3.5" SATA HDD & 2.5" SATA SSD 2.5" U.2 NVMe SSD M.2 NVMe SSD
Drive Interface	SATA (6 Gb/s) U.2 NVMe (PCIe Gen 3) M.2 NVMe (PCIe Gen 3)
Maximum Internal Raw Capacity	245 TB
Maximum Raw Capacity with Expansion	10,853 TB
Hot Swappable Drive	Yes (M.2 slot does not support hot plugging)
Connectivity Port	
PCIe Expansion	(Gen 4x8 Slot) x 1
Max. 2.5 GbE LAN Port	4 (onboard)
Max. 10 GbE LAN Port	6 (2 onboard)
Max. 25 GbE LAN Port	2
Expansion and External Port	
12 Gb/s SAS Wide Port	2 (option)
USB Port	3
Console Port	1
Software Specification	
Storage OS	QSM 4
RAID Type	0 / 1 / 5 / 6 / 10 / 50 / 60 / 5EE / 6EE / 50EE / 60EE / QDP (Dynamic Pool)
Storage Efficiency	Thin provisioning / QCompact (Compression and Deduplication) (option)
Software Acceleration	SSD cache / Auto tiering / RDMA
Data Protection	Snapshot / Asynchronous / Synchronous (option) / QMetro (option)
Backup Service	Rsync / S3 backup / Cloud backup / XMirror / Microsoft 365 email backup
Security	SSL / SSH / iSCSI CHAP / ISE & SED / WORM / RBAC / Windows ACL / Antivirus / QSeal (AirGap Backup)
Support Protocol	CIFS / NFS / FTP / WebDAV / iSCSI / FCP / NVMe-oF
Management	Web UI / Windows AD / LDAP / RESTful API / S.E.S. / LCM
Appearance	
Dimension (H x W x D) (mm)	44 x 438 x 515
Net Weight (kg)	9.1
Gross Weight (kg)	13.2
Others	
System Fan	2 pcs
Power Supply Unit	450 W x 2 (80 Plus Gold)
Power Input	100 - 240 VAC, 50/60 Hz
Power Consumption	155 W / 529 BTU
Certification	CE / FCC / BSMI
Standard Warranty	System: 3 years

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11. Empty
12. Console Port
13. Buzzer Mute Button
14. USB Port
15. UID (Unique Identifier) LED
16. 2.5 GbE LAN Port
17. Power Supply Unit 2

System Specification

Model Name	XN2204-2C
Architecture	Single controller
CPU	
Processor	Intel® Xeon® 2-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 4 M.2 Slot x 2
Maximum Drive Bays with Expansion Unit	316
Compatible Drive Type	3.5" SATA HDD & 2.5" SATA SSD M.2 NVMe SSD
Drive Interface	SATA (6 Gb/s) M.2 NVMe (PCIe Gen 3)
Maximum Internal Raw Capacity	136 TB
Maximum Raw Capacity with Expansion	10,744 TB
Hot Swappable Drive	Yes (M.2 slot does not support hot plugging)
Connectivity Port	
PCIe Expansion	(Gen 4x8 Slot) x 1
Max. 2.5 GbE LAN Port	4 (onboard)
Max. 10 GbE LAN Port	2
Max. 25 GbE LAN Port	2
Expansion and External Port	
12 Gb/s SAS Wide Port	2 (option)
USB Port	3
Console Port	1
Software Specification	
Storage OS	QSM 4
RAID Type	0 / 1 / 5 / 6 / 10 / 50 / 60 / 5EE / 6EE / 50EE / 60EE / QDP (Dynamic Pool)
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Appearance	
Dimension (H x W x D) (mm)	44 x 438 x 515
Net Weight (kg)	9.1
Gross Weight (kg)	13.2
Others	
System Fan	2 pcs
Power Supply Unit	450 W x 2 (80 Plus Gold)
Power Input	100 - 240 VAC, 50/60 Hz
Power Consumption	137 W / 467 BTU
Certification	CE / FCC / BSMI
Standard Warranty	System: 3 years

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