

Data Sheet

QSAN Unified Storage

XN1 Series

High-Performance Data Consolidation for Compact Workspaces

Key Benefits

Uncompromised Performance for Pro

- Equipped with 10 GbE and 2.5 GbE ports, the XN1 handles intensive workloads, with optional 25 GbE for future scalability
- Leverage enterprise-level auto-tiering and SSD cache, accelerate every bit of I/Os from the built-in SSD specialized slots

Streamline Data Consolidation

- Equipped with a management system tailored for the best data retention capability, including block and file levels
- Up to 10 GB connection bandwidth to power up the file sharing efficiency

Native Comprehensive Security

- Empower the best-in-class data security with an advanced authenticator and antivirus
- WORM and SED allow folder, pool, and drive levels of security that shield users from cyberattacks and physical theft

Best-in-Class Performance, Built for Professionals

Redefines agile and compact desktop tower storage by delivering performance once reserved for compact systems — now in a compact tower form factor for professionals. Equipped with a dedicated 2.5" SSD slot and NVMe for tiered or cache acceleration, it transforms hybrid flash into a powerful I/O engine. With PCIe Gen4 x8 expansion, the XN1 Series supports high-speed host cards to tackle demanding workloads like VDI, virtualization, and 4K media editing.

Optimization for Efficiency and Simplicity

Combines the power of QSAN's original file system with robust hardware design to deliver highly efficient file services, the XN1 supports modern storage protocols and enterprise-grade integration to meet today's evolving IT requirements.

Accelerated Smarter File Sharing for Teams

Empowers professional workgroups with high-speed connectivity and enterprise-grade efficiency. Featuring onboard 10 GbE ports and PCIe Gen4 x8 expansion, it supports seamless upgrades to 25 GbE connections. Combined with QSM, QSAN's unified storage operating system, the XN1 delivers streamlined file sharing with multi-protocol access, advanced permission controls, and intuitive management—making it the perfect solution for agile teams that demand without delays.

Uncompromised Data Security

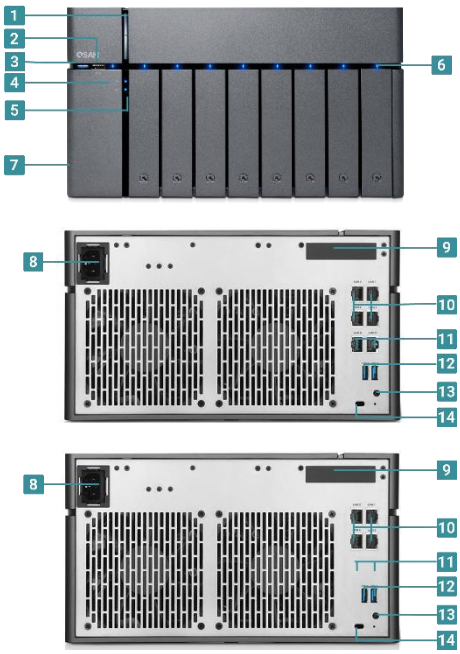
Powered by QSM, the XN1 series delivers uncompromising data security through a multi-layered protection framework. With support for QSAN's trackless backup, two-factor authentication, and built-in antivirus, it safeguards against ransomware and unauthorized access. Combined with WORM (Write Once Read Many) and SED (Self-Encrypting Drives), XN1 provides granular protection from folder to drive level, ensuring robust defense against both cyberattacks and physical threats.

From Storage to Solution

The XN1 Series is a versatile unified storage solution engineered to optimize I/O performance across diverse use cases. With virtualization-ready software and hardware, media production capabilities, and built-in enterprise backup tools, it meets the full range of storage demands for startups and SMBs.

QSAN

Appearance



1. Power Button
2. USB 3.0 Port
3. USB Copy Button
4. LAN Status LED
5. PCIe Expansion Slot LED
6. HDD and SSD Status LED
7. Service Door
8. Power Port
9. Host Card Slot
10. 2.5 GbE LAN Port
11. 10 GbE LAN Port

    (Not Available on 4C Model)
12. USB 3.0 Port

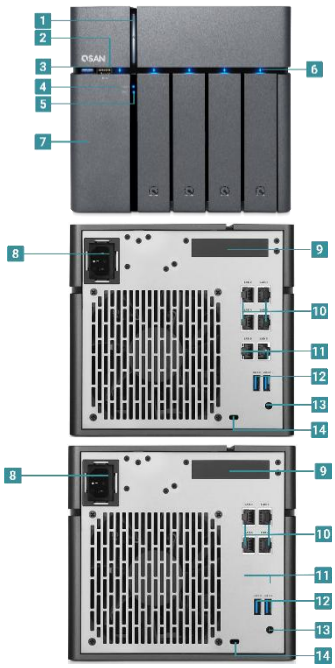
    (USB 2.0 Interface on 4C Model)
13. Console Port
14. Kensington Lock

System Specification

Model Name	XN1209-4A	XN1209-4C
Architecture	Desktop Tower	
CPU		
Processor	AMD® Ryzen™ 4-core	Intel® Core™ N 4-core
Memory		
Memory Module Pre-installed	8 GB DDR5 ECC DIMM	8 GB DDR5 non-ECC DIMM
Total Memory Slots	2	1
Memory Expandable up to	64 GB	16 GB
Storage		
Drive Bays	3.5" Slot x 8 2.5" Slot x 1 M.2 NVMe Slot x 2	3.5" Slot x 8 2.5" Slot x 1 M.2 NVMe Slot x 1
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 4 x1)	SATA (6 Gb/s) M.2 NVMe (PCIe Gen 3 x2)
Maximum Internal Raw Capacity	287 TB	
Hot Swappable Drive	Yes (M.2 slot does not support hot plugging)	
Connectivity Port		
PCIe Expansion	(Gen 4x8 Slot) x 1	(Gen 3x2 Slot) x 1
Max. 2.5 GbE LAN Port	4 (onboard)	4 (onboard)
Max. 10 GbE LAN Port	4 (2 onboard)	2
Max. 25 GbE LAN Port	2	2
Expansion and External Port		
USB Port	3	3
Console Port	1	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)	177 x 310 x 235	
Net Weight (kg)	4.8	
Gross Weight (kg)	6	
Others		
System Fan	2 pcs	
Power Supply Unit	200 W x 1	
Power Input	100 - 240 VAC, 50/60 Hz	
Power Consumption	85 W / 290 BTU	
Certification	CE / FCC / BSMI	
Standard Warranty	System: 2 years	

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System Specification

Model Name	XN1205-4A	XN1205-4C
Architecture	Desktop Tower	
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Processor	AMD® Ryzen™ 4-core	Intel® Core™ N 4-core
Memory		
Memory Module Pre-installed	8 GB DDR5 ECC DIMM	8 GB DDR5 non-ECC DIMM
Total Memory Slots	2	1
Memory Expandable up to	64 GB	16 GB
Storage		
Drive Bays	3.5" Slot x 4 2.5" Slot x 1 M.2 NVMe Slot x 2	3.5" Slot x 4 2.5" Slot x 1 M.2 NVMe Slot x 1
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 4 x1)	SATA (6 Gb/s) M.2 NVMe (PCIe Gen 3 x2)
Maximum Internal Raw Capacity	151 TB	
Hot Swappable Drive	Yes (M.2 slot does not support hot plugging)	
Connectivity Port		
PCIe Expansion	(Gen 4x8 Slot) x 1	(Gen 3x2 Slot) x 1
Max. 2.5 GbE LAN Port	4 (onboard)	4 (onboard)
Max. 10 GbE LAN Port	4 (2 onboard)	2
Max. 25 GbE LAN Port	2	2
Expansion and External Port		
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