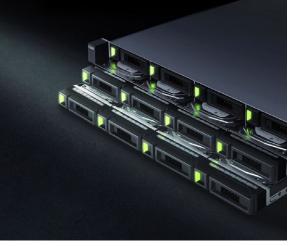
Data Sheet



QSAN Unified Storage

XN3 Series

Professional NVMe Unified Storage for General Purpose

Powerful Performance with Optimized Cost

QSAN XN3 series is a cost-effective NVMe flash storage solution with the best balance of performance and cost. With μ s-level latency, the XN3 assists enterprises in meeting the responsiveness needs of most enterprise applications. The XN3 is ideal for modern applications including cloud collaboration, large scale surveillance, and high-speed business backup alike.

Accelerate Your Business with µs-Level Latency

The XN3 series features an NVMe SSD architecture designed to ensure consistent response times, prioritizing steady performance instead of occasional peak throughput. Tailored for enterprise high-performance computing infrastructures, it delivers high IOPS with latency at the microsecond level. With minimal latency concerns, applications are shielded from slowdowns or halts caused by high response times. Matching with the RDMA technology, XN3 can mostly eliminate the latency when accessing data from the host to the drive.

Always-on for Business

XN3 is equipped with hot-swappable and fully redundant hardware design, streamlining maintenance and upgrades. Its dual active controllers operate, and online firmware upgrades deliver seamless storage services in real-time, guaranteeing uninterrupted service delivery with zero downtime.

Sweatless Management Experience

QSM continuously evolves security levels to protect data across storage and adhere to industry best practices. Supporting SED (Self-Encrypting Drives) coupled with WORM (Write Once Read Many) will keep your sensitive data safe even if the drives are lost, stolen, or misplaced. Additionally, Windows ACL (Access Control List) and RBAC (Role-Based Access Control) help to prevent unauthorized access to your data.

Reduce Business Overhead through Data Reduction

Equipped with advanced data reduction capabilities, including deduplication and compression, the XN3 offers unparalleled efficiency, allowing businesses to significantly reduce overhead costs.

Key Benefits

Unparalleled Performance

• Onboard 10 GbE LAN port and flexible highspeed I/O expansion

Enterprise Reliability

- 99.9999% high availability with overall modular design performs no single point of failure
- Never lose any data at cache-to-flash memory protection solution
- Non-disruptive firmware upgrade and backup appliance reach zero downtime

Effortless Management

- Simplify the steps of upgrading and replacing system components with modular hardware design
- QSM the operation system for flash storage reduces learning and maintenance efforts through our innovative interface design
- Support RESTful API, SNMP, and emailing for external management or use QSAN XInsight, smarter data management with simplified platform and intelligent engine



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. Power Supply Unit
- 9. Master / Slave LED (only for dual controllers)
- 10. Controller Status LED
- 11. Dirty Cache LED
- 12. UID (Unique Identifier) LED
- 13. Empty
- 14. 10 GbE LAN Port
- 15. 2.5 GbE LAN Port
- 16. Host Card Slot 1 (host card is an optional part)
- 17. Service Port
- 18. Console Port
- 19. USB Port
- 20. Host Card Slot 2 (host card is an optional part)
- 21. Reset to Factory Default Button
- 22. Buzzer Mute Button

System Specification

Model NameXN3212D-4CXN3212S-4CArchitectureDual-active controllerSingle-upgradable controllerCPUProcessorIntel® Xeon® 4-core x 2Intel® Xeon® 4-coreMemoryMemory Module Pre-installed16 GB DDR4 RDIMM8 GB DDR4 RDIMMTotal Memory Slots84Memory Expandable up to512 GB256 GBStorageDrive Bays3.5" Slot x 12Maximum Drive Bays with Expansion Unit116Compatible Drive Type2.5" dual-port U.2 NVMe SSD2.5" single-port U.2 NVMe SSDDrive InterfaceU.2 NVMe (PCIe Gen 4)Maximum Internal Raw Capacity368 TBMaximum Raw Capacity with Expansion3.563 TBHot Swapable DriveYesConnectivity Port2 (onboard)PCIe Expansion(Gen 3x8 Slot) x 4I0 GbE SFP+LAN Port2 (onboard) / 2 (option) / 4 (option)10 GbE SFP+LAN Port2 (option) / 4 (option)25 GbE SFP28 LAN Port2 (option) / 4 (option)25 GbE SFP28 LAN Port2 (option) / 4 (option)16 Gb SFP+ Fibre Channel2 (option) / 4 (option)25 GbE SFP28 LAN Port2 (option) / 4 (option)25 GbE SFP28 LAN Port2 (option) / 4 (option)25 GbE SFP28 LAN Port2 (option) / 4 (option)25 GbE SFP28 Fibre Channel2 (option) / 4 (option)25 GbE SFP28 LAN Port2 (option) / 4 (option)25 GbE SFP28 LAN Port2 (option) / 4 (option)25 GbE SFP28 LAN Port2 (option) / 4 (option)
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USB Port 1 (front) / 2 (rear) 1 (front) / 1 (rear)
Others Console Port x 2, Service Port x 2 Console Port x 1, Service Port x 1
Software Specification
Storage OS QSM 4
RAID Type 0 / 1 / 5 / 6 / 10 / 50 / 60 / 5EE / 6EE / 50EE / 60EE
Storage Efficiency Thin provisioning / Compression and Deduplication (option)
Software Acceleration SSD cache / Auto tiering / RDMA
Data Protection Snapshot / Asynchronous / Synchronous (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
Support Protocols CIFS / NFS / FTP / WebDAV / iSCSI / FCP / NVMe-oF
Management Web UI / Window AD / LDAP / RESTful API / S.E.S. / LCM
Appearance
Dimension (H x W x D) (mm) 88 x 438 x 515
Net Weight (kg) 16.3
Gross Weight (kg) 18.6
Others
Memory Protection Cache-to-Flash Module (option)
System Fan 4 pcs
Power Supply Unit 850 W x 2 (80 Plus Platinum)
Power Input 100 - 240 VAC, 50/60 Hz
Power Consumption 407 W / 1,389 BTU
Certification CE / FCC / BSMI
Standard Warranty System: 3 years Cache-to-Flash Module: 1 year

* The feature is still under developing, please contact QSAN for accurate release date.

