Data Sheet

QSAN Flash Storage

XCubeFAS 2026D

Configure Storage Flexibly, Accelerate Enterprise Applications

Key Benefits

Outstanding Performance

- 100% SAS/SATA 2U26 high density architecture
- Flexible high-speed 25GbE/ 32Gb iSCSI/ Fibre Channel(FC) I/O host card
- Excellent IOPs with sub-ms latency
  500K random read IOPs @ 1ms latency
  280K random write IOPs @ 1ms latency

Dependable Data Experience

- 99.9999% high availability design with no single point of failure
- Never lose any data at cache-to-flash memory protection solution
- Always enjoy the latest features & better performance with zero downtime firmware upgrade

Modern Simplicity

- Simplify the steps of upgrading and replacing system components with modular hardware design
- XEVO - the operation system for flash storage reduces learning and maintenance efforts through our innovative interface design

Flexible Configuration and Energy Saving

- Support SAS and SATA SSD, the storage can be easily and freely deployed according to requirements
- Support up to 286 drives and 4PB capacity, without the need to repurchase other storage for expansion.

The World's High est Density Entry-Level All-Flash Storage

QSAN XF2026, the world's highest drive density flash storage, is the most cost-effective all-flash storage for the SMB market. It provides ms-level high performance and advanced features previously used only by enterprise storage to help you analyze business while reducing capital expenditures and maximizing efficiency for your business. It is the perfect solution for IoT, ERP, and Big Data.

High-Speed Data Experience with Low Carbon Footprint

With a 2U 26-bay system design, XCubeFAS 2026D is the industry's first high-density low power all-flash storage. It provides 280K random write IOPS with 1ms latency accelerating the enterprise applications. XCubeFAS 2026D has accelerated performance, consolidated space, and two more storage bays (up to 8% more capacity) than the popular 2U 24-bay products available on the market. This can further lower the cost per TB, minimize IT rack space, and generate a smaller and greener carbon footprint.

Non-Stop Enterprise Services

The cost of losing confidence from customers is far greater than the cost of IT recovery. XF3126D has a built-in hot-swappable and fully redundant hardware design for easy maintenance and upgrade. Dual active controllers concurrently provide storage services in real-time and guarantee the non-stop storage service.

Easy Management

The flash-based storage management system - XEVO, providing efficiency management capabilities, data can be accessed in just 5 minutes when storage is installed for the first time. With the help of a comprehensive and intuitive dashboard and report system, managers can analyze business usage and monitor the storage status in real-time.

Elastic Deployment

XF2026D certified multi-brand enterprise SAS and SATA SSD models. You can configure SATA SSD and SAS SSD to the same storage system according to budget and performance requirements. The maximum storage capacity can be expanded up to 4PB, which is the most economical all-flash storage solution in the market.

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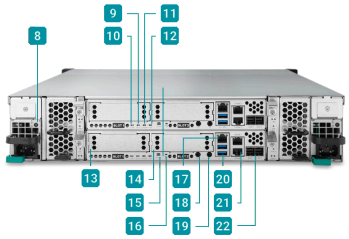
Appearance



1. Enclosure Power Button / LED
2. UID (Unique Identifier) Button / LED
3. Enclosure Access LED
4. Enclosure Status LED
5. USB 2.0 Port
6. Disk Drive Power LED
7. Disk Drive Status LED
8. PSU Indicator and Beep Off Button
9. Controller Status LED
10. Master / Slave LED (only for dual controllers)
11. Dirty Cache LED
12. UID (Unique Identifier) LED
13. Host Card Slot 1 (host card is an optional part)
14. Host Card Slot 2 (host card is an optional part)
15. Buzzer Mute Button
16. Reset to Factory Default Button
17. Management Port
18. Console Port
19. Service Port
20. USB 3.0 Port
21. 10GbE iSCSI RJ45 Port
22. 12Gb/s SAS Wide Port

System Spec

Architecture	Active-Active dual-controller
CPU	
CPU	Intel® Xeon® 64-bit Quad-Core (8-core processor models are also available)
Memory	
Memory Module Pre-installed	8GB DDR4 ECC DIMM x 4 (per controller)
Total Memory Slots	4 (per controller)
Memory Expandable up to	128GB (per controller)
Storage	
Drive Bays	2.5" Slot x 26
Maximum Drive Bays with Expansion Unit	286
Compatible Drive Type	2.5" SAS SSD / SATA SSD(*) (*) 6Gb MUX board needed for 2.5" SATA SSD in dual controller system
Maximum Internal Raw Capacity	399.36TB (calculate 15.36TB)
Maximum Raw Capacity with Expansion Units	4,392.36TB (calculate 15.36TB)
Hot Swappable Drive	Yes
Memory Protection	
Battery Backup Module + Flash Module	Yes
Connectivity Port	
PCIe Expansion	1 x Gen3x8, 1 x Gen3x4
USB 2.0 Port	1 (Front)
USB 3.0 Port	2 (Rear)
Others	UPS Port x 1, Controller port x 1
1GbE RJ45 LAN Port	1 (Onboard Management Port)
10GbE RJ45 LAN Port	2 RJ45 iSCSI (Onboard) / 4 SFP+ iSCSI (Option) / 2 RJ45 iSCSI (Option)
25GbE SFP28 LAN Port	2 iSCSI (Option)
16Gb SFP+ Fibre Channel	2 (Option) / 4 (Option)
32Gb SFP28 Fibre Channel	2 (Option)
Software Specification	
Max hosts / controller	iSCSI: 512 FC: 256
Max LUN size	Thick: Unlimited Thin: 256TB
Max number of LUNs	4,096
Max number of snapshots / volume	64
Max number of volume for snapshot	64
Max number of snapshots	4,096
Non-disruptive upgrade Firmware	Yes
Performance report	Yes
Replication	Yes ; Synchronous (will be available in Q3, 2021), Asynchronous
RAID type	0 / 1 / 5 / 6 / 10 / 50 / 60 / 5EE / 6EE / 50EE / 60EE / N-way mirror
Restful API	Yes
SNMP	Yes
Others	
System Fan	4 (per controller)
Power Recovery	Yes
Wake on LAN/WAN	Yes
Certification	CE / FCC / BSMI
Standard warranty	3 years Battery-Backup Module: 1 year