Data Sheet

QSAN Flash Storage

# XCubeFAS 2026

Configure Storage Flexibly, Accelerate Enterprise Applications

## Key Benefits

### Outstanding Performance

- 100% SAS/SATA 2U26 high density architecture
- Flexible high-speed 25 GbE iSCSI / 32 Gb Fibre Channel 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 4 PB 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 2026 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 2026 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. XF2026 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

XF2026 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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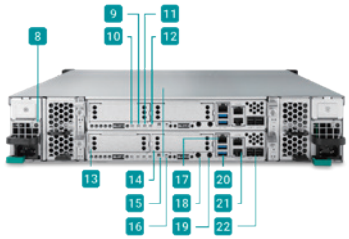
## Appearance


1. Enclosure Power Button / LED
2. UID (Unique Identifier) Button / LED
3. Enclosure Access LED
4. Enclosure Status LED
5. USB Port
6. Disk Drive Power LED
7. Disk Drive Status LED
8. PSU Indicator
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 Port
21. 10 GbE iSCSI RJ45 Port
22. 12 Gb/s SAS Wide Port

## System Specification

| Model Name | XF2026D | XF2026S |
|---|---|---|
| Architecture | Dual-active controller | Single-upgradeable controller |
| **CPU** | | |
| CPU | Intel® Xeon® 64-bit Quad-Core (8-core processor models are also available) | |
| **Memory** | | |
| Memory Module Pre-installed | 8 GB DDR4 ECC DIMM x 4 (per controller) | |
| Total Memory Slots | 4 (per controller) | |
| Memory Expandable up to | 128 GB (per controller) | |
| **Storage** | | |
| Drive Bays | 2.5" Slot x 26 | |
| Maximum Drive Bays with Expansion Unit | 286 | |
| Compatible Drive Type | 2.5" SAS, SATA(*), SED SSD<br>(*) 6 Gb MUX board needed | 2.5" SAS, SATA, SED SSD |
| Maximum Internal Raw Capacity | 399 TB (calculate 15.36 TB) | |
| Maximum Raw Capacity with Expansion Units | 4,392 TB (calculate 15.36 TB) | |
| Hot Swappable Drive | Yes | |
| **Memory Protection** | | |
| Battery Backup Module + Flash Module | Yes | |
| **Connectivity Port** | | |
| PCIe Expansion | (Gen3x8 Slot) x 1, (Gen2x4 Slot) x 1 | |
| USB 2.0 Port | 1 (front) | |
| USB 3.0 Port | 2 (rear) | |
| Others | UPS Port x 1, Controller Port x 1 | |
| 1 GbE RJ45 LAN Port | 1 (onboard management port) | |
| 10 GbE RJ45 LAN Port | 2 RJ45 iSCSI (onboard) / 4 SFP+ iSCSI (optional) / 2 RJ45 iSCSI (optional) | |
| 25 GbE SFP28 LAN Port | 2 iSCSI (optional) | |
| 16 Gb SFP+ Fibre Channel | 2 (optional) / 4 (optional) | |
| 32 Gb SFP28 Fibre Channel | 2 (optional) | |
| **Software Specification** | | |
| Max hosts / controller | iSCSI: 512<br>FC: 256 | |
| Max LUN size | Thick: Unlimited<br>Thin: 256 TB | |
| 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, Asynchronous (built-in) & Synchronous (optional) | |
| 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 pcs | |
| Power Recovery | Yes | |
| Wake on LAN/WAN | Yes | |
| Certification | CE / FCC / BSMI | |
| Standard warranty | System: 3 years<br>Battery-Backup Module: 1 year | |



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