Data Sheet

QSAN Flash Storage

XCubeFAS 3126

Liberate Enterprise Applications, Enter the Modern Data Era

Key Benefits

Excellent Performance

- 100% NVMe 3U26 high density architecture
- Flexible high-speed 25 GbE iSCSI / 32 Gb Fibre Channel I/O host card
- Excellent IOPS with ultra-low latency 450K random write IOPS @ 500µs latency, 220K random write IOPS @ 300µs latency

Enterprise-grade Reliability

- 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
- Support RESTful API, SNMP, and emailing for external management or use QSAN XInsight, smarter data management with simplified platform and intelligent engine

The Best NVMe Flash Storage in Businesses of All Sizes

QSAN XF3126, the world's first and the fastest entry-level NVMe flash storage. XF3126 provides high performance with µs-level latency that can meet the response requirements of the most demanding enterprise applications. It is the perfect modern IT solution for database, AI, IOT, HPC, virtualization, and financial services.

Accelerate Business-Critical Applications

Guaranteed response times rather than one-time peak throughput, QSAN XF3126 with 26-bay NVMe architecture achieves the requirements of the enterprise high-performance computing infrastructures with high IOPS at µs-level latency. At low latency, there's no need to be worried about applications that slow down, or worse, stop running due to high response time, and you can speed up the computing process by reducing the data transmission time and integrate mixed critical workloads in flash storage.

Ever Running

The cost of losing confidence from customers is far greater than the cost of IT recovery. XF3126 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.

Efficiency 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 comprehensive and intuitive dashboard and report system, managers are able to analyze business usage and monitor the storage status in real time. Moreover, external manage features such as RESTful API, SNMP and emailing notification enable managers to fully grasp the system status and focus on better decision making.

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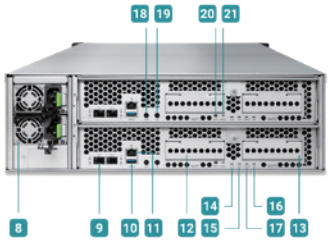
Appearance



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 SPF+ Port

System Specification

Model Name	XF3126D	XF3126S
Architecture	Dual-active controller	Single-upgradeable controller
CPU		
CPU	Intel® Xeon® 6-core Scalable Processor	
Memory		
Memory Module Pre-installed	8 GB DDR4 RDIMM x 2 (per controller)	
Total Memory Slots	6 (per controller)	
Memory Expandable up to	384 GB (per controller)	
Storage		
Drive Bays	2.5" Slot x 26	
Compatible Drive Type	2.5" U.2 Dual-port NVMe SSD	2.5" U.2 Single-port NVMe SSD
Maximum Internal Raw Capacity	399 TB (calculate 15.36 TB)	
Hot Swappable Drive	Yes	
Memory Protection		
Cache-to-Flash Module	Yes	
Connective port		
PCIe Expansion	(Gen3x8 Slot) x 2	
USB 2.0 Port	1 (front)	
USB 3.0 Port	1 (rear)	
Others	UPS Port x 1, Controller Port x 1	
1 GbE RJ45 LAN Port	1 (onboard management port)	
10 GbE RJ45/SFP+ LAN Port	2 SFP+ 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: 1,024 FC: 256	
Max LUN size	Thick: Unlimited Thin: 1,024 TB	
Max number of LUNs	8,192	
Max number of snapshots / volume	256	
Max number of volume for snapshot	64	
Max number of snapshots	16,384	
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 (per controller)	
Power Recovery	Yes	
Wake on LAN/WAN	Yes	
Certification	CE / FCC / BSMI	
Standard warranty	System: 3 years Cache-to-Flash Module: 1 year	

October, 2022