Data Sheet

QSAN Flash Storage

XCubeFAS 3126D

Liberate Enterprise Applications, Enter the Modern Data Era

Key Benefits

Excellent Performance

- 100% NVMe 3U26 high density architecture.
- Flexible high-speed 25GbE/ 32Gb iSCSI/ Fibre Channel(FC) 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 a simplified platform and intelligent engine.

The Best NVMe Flash Storage in Businesses of All Sizes

QSAN XF3126D, the world's first and the fastest entry-level NVMe flash storage. XF3126D 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 XF3126D with 26bays NVMe architecture achieves the performance 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. 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.

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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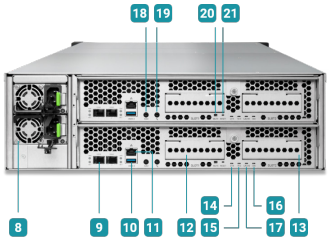
Appearance



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 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 SPF+ Port

System Spec

Architecture	Active-Active dual-controller
CPU	
CPU	Intel® Xeon® 64-bit 6-Core
Memory	
Total Memory Slots	6 (per controller)
Memory Module Pre-installed	8GB DDR4 RDIMM x 2 (per controller)
Memory Expandable up to	384GB (per controller)
Storage	
Drive Bays	2.5" Slot x 26
Compatible Drive Type	2.5" U.2 Dual-port NVMe SSD
Maximum Internal Raw Capacity	399.36TB (calculate 15.36TB)
Hot Swappable Drive	Yes
Memory Protection	
Cache-to-Flash Module	Yes
Connective port	
PCIe Expansion	2 x Gen3 x 8
USB 2.0 Port	1 (Front)
USB 3.0 Port	1 (Rear)
Others	UPS Port x 1, Controller port x 1
1GbE RJ45 LAN Port	1 (Onboard Management Port)
10GbE RJ45/SFP+ LAN Port	2 SFP+ 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:1,024 FC:256
Max LUN size	Thick:Unlimited Thin:1,024TB
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
Max sessions / controller	1,024
Max schedule task / system	64
Non-disruptive upgrade Firmware	Yes
Performance report	Yes
Replication	Yes (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 Cache-to-Flash Module: 1 year