Data Sheet

QSAN Flash Storage

XCubeFAS 5200

Performace-Oriented All NVMe Flash Storage Made for Demanding Workload

Key Benefits

Unparalleled Performance

- 100% NVMe 2U26 high density architecture
- Onboard 25 GbE iSCSI and flexible 32 Gb Fibre Channel high-speed I/O expansion

Enterprise Reliability

- 99.9999% high availability with mirrored firmware architecture and 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
- 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

Presenting Lightning-Fast Performance for Enterprises

QSAN XF5200, the premier enterprise-level all-NVMe flash storage solution with unparalleled speed. With µs-level latency, It excels in meeting the responsiveness needs of the most challenging enterprise applications. The XF5200 is ideal for modern applications including AI model training, real-time database, HPC (High-Performance Computing), and high-speed backup alike.

Accelerate Your Business with Sub-100 µs Latency

The QSAN XF5200 features a all 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 RDMA mechanism, XF5200 can mostly eliminate the latency when accessing data from host to the drive.

Always-on for Business

XF5200 is equipped with mirrored firmware architecture, built-in hot-swappable, and fully redundant hardware design, streamlining maintenance and upgrades. Its dual active controllers operate and online firmware upgrade deliver seamless storage services in real-time, guaranteeing uninterrupted service delivery while zero downtime.

Sweatless Management Experience

XEVO, the flash-based storage management system, excels in efficiency, ensuring data access within just 5 minutes of initial storage deployment. Its intuitive dashboard and robust reporting system enable managers to analyze business usage and monitor storage status in real-time. Furthermore, external management functionalities like RESTful API, SNMP, and email notifications provide managers with holistic system oversight, empowering them to make informed decisions.

Reduce Business Overhead through Data Reduction

Equipped with advanced data reduction capabilities including deduplication and compression, the XF5200 offers unparalleled efficiency, allowing businesses to significantly reduce overhead costs.

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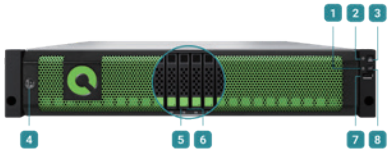
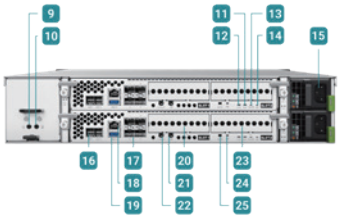
Appearance





1. Enclosure Status LED
2. Enclosure Access LED
3. Enclosure Power Button / LED
4. Bezel Lock
5. Disk Drive Status LED
6. Disk Drive Power LED
7. USB Port
8. UID (Unique Identifier) Button / LED
9. Cache-to-Flash Module Power LED
10. Cache-to-Flash Module Status LED
11. Master / Slave LED (only for dual controllers)
12. Controller Status LED
13. Dirty Cache LED
14. UID (Unique Identifier) LED
15. Power Supply Unit
16. 12 Gb/s SAS Wide Port
17. 25 GbE iSCSI (SFP28) Port
18. Management Port
19. USB Port
20. Host Card Slot 1 (host card is an optional part)
21. Service Port
22. Console Port
23. Host Card Slot 2 (host card is an optional part)
24. Reset to Factory Default Button
25. Buzzer Mute Button

System Specification

Model Name	XF5226D	XF5226S
Architecture	Dual-active controller	Single-upgradeable controller
CPU		
Processor	Intel® Xeon® 12-core	
Memory		
Memory Module Pre-installed	16 GB DDR4 RDIMM (per controller)	
Total Memory Slots	8 (per controller)	
Memory Expandable up to	1,024 GB (per controller)	
Storage		
Drive Bays	2.5" Slot x 26	
Maximum Drive Bays with Expansion Unit	546	
Compatible Drive Type	2.5" dual-port U.2 NVMe SSD 2.5" SAS SSD (for expansion units)	2.5" single-port U.2 NVMe SSD 2.5" SAS SSD (for expansion units)
Drive Interface	U.2 NVMe (PCIe Gen 4x4) SAS 12 Gb/s (for expansion units)	
Maximum Internal Raw Capacity	798 TB (calculate 30.72 TB SSD)	
Maximum Raw Capacity with Expansion Units	16,773 TB (calculate 30.72 TB SSD)	
Hot Swappable Drive	Yes	
Connectivity Port		
PCIe Expansion	(Gen 4 x 8 Slot) x 2	
2.5 GbE RJ45 LAN Port	1 (onboard management port per controller)	
10 GbE SFP+ LAN Port	2 (option) / 4 (option)	
10 GbE RJ45 LAN Port	2 (option) / 4 (option)	
25 GbE SFP28 LAN Port	4 (onboard per controller) / 2 (option) / 4 (option)	
16 Gb SFP+ Fibre Channel	2 (option) / 4 (option)	
32 Gb SFP28 Fibre Channel	2 (option) / 4 (option)	
Expansion and External Port		
12 Gb/s SAS Wide Port	2 (onboard per controller)	
USB Port	1 (front) / 2 (rear)	
Others	Console Port x 1, Service Port (UPS) x 1	
Software Specification		
Storage OS	XEVO 3	
RAID Type	0 / 1 / 3 / 5 / 6 / 10 / 30 / 50 / 60 / 5EE / 6EE / 50EE / 60EE	
Storage Efficiency	Thin provisioning / Deduplication* (option) / Compression* (option)	
Software Acceleration	RDMA / Auto tiering	
Data Protection	Snapshot / Asynchronous / Synchronous (option)	
Security	HTTPS / SSH / iSCSI CHAP / ISE & SED	
Support Protocols	iSCSI / FCP / NVMe-oF*	
Management	Web UI / RESTful API / S.E.S. / LCM	
Appearance		
Dimension (H x W x D) (mm)	88 x 438 x 573	
Net Weight (kg)	19.6	
Gross Weight (kg)	28.6	
Others		
Memory Protection	Cache-to-Flash Module (built-in)	
System Fan	4 pcs (per controller)	
Power Supply Unit	850 W x 2 (80 Plus Platinum)	
Power Consumption	812 W	
Certification	CE / FCC / BSMI	
Standard Warranty	System: 5 years Cache-to-Flash Module: 1 year	

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