

Data Sheet



QSAN Hybrid Flash Storage

XCubeSAN 5324

Best Hybrid Performance for Modern Enterprise Applications

Key Benefits

Outstanding Performance

- Capacity required with dual active architecture
- Ultra-high performance with 20 GB/s and 1.8M IOPS
- Outstanding scale-up capability up to 11 PB

Dependable Data Experience

- 99.9999% high availability design with no single point of failure
- Cache-to-flash to protect cache data in power outage
- Non-disruptive firmware upgrade ensures continuous data service with zero downtime

Versatile Connectivity

- Each controller with built-in 4-port 10 GbE (SFP+) and maximum 12 host ports allows direct connection to multiple hosts without switches
- Optional high-speed 25 GbE iSCSI and 32 Gb Fibre Channel host cards

Modern Simplicity

- XEVO, a flash-based storage management system, minimizes the learning curve and eases maintenance through an intuitive GUI
- Data can be accessed in 5 minutes after installation
- Wake-on-SAS allows you to remotely power on / off all cascaded XCubeDAS expansion units for power saving

Optimized Performance and Capacity for Mixed Workloads

The XCubeSAN 5324 (3.5" 4U 24-bay) is a capacity-demanding hybrid flash storage. Its multi-bay design minimizes enterprise footprint and power consumption while maximizing storage space. Ultra-high performance is designed to be the ideal solution for applications in mission-critical data centers, high-performance computing, virtualization, or media environments.

High Availability and Enterprise Reliability

The XCubeSAN series is a proven high availability SAN storage system with full redundancy in modular design. Its dual-active architecture and automatic failover / failback mechanism, coupled with cache-to-flash technology, enables the system to withstand critical situations.

Flexible I/O Modules and Scale-up Capacity as Needed

Each controller has two host card slots that can be configured as iSCSI, Fibre Channel, or a mix of both besides built-in 4-port 10 GbE iSCSI (SFP+). As a result, the series offers great flexibility with built-in 8-port 10 GbE iSCSI (SFP+) and up to 24 host ports in a dual-controller system. In addition, the XS5324 provides massive scale-up capabilities by connecting XCubeDAS or 3rd-party expansion units with up to 504 disk drives or 11 PB raw capacity for future data growth.

Proven Simplicity - "Set and Forget" Data Services

XEVO, a storage management system with intuitive GUI designs, helps to save time in storage deployment considerably. XEVO also delivers enterprise storage features including complete RAID level protection, RAID EE with fast rebuild, thin provisioning, SSD cache, auto-tiering, and more. With the help of an intuitive dashboard and reporting system, managers can analyze business usage and monitor storage status in real time.

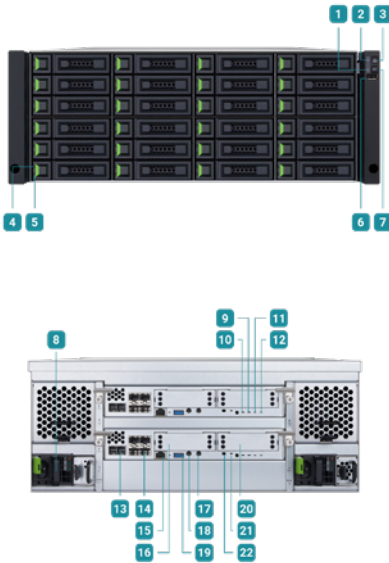
Advanced Data Protection to Safeguard Assets

To protect against data loss and downtime events, XEVO provides complete array-based backup functions including local backup and remote replication. Based on snapshot technology, a solid safety net for disaster recovery can be built to meet the required RPO and RTO.

Secure Data and Secure Management

Supporting SED (Self-Encrypting Drives) will keep your sensitive data safe even if the drives are lost, stolen, or misplaced. Additionally, RBAC (Role-Based Access Control) helps to prevent unauthorized access to your data. All management communication is secured over https.

Appearance



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

System Specification

Model Name	XS5324D	XS5324S
Architecture	Dual-active controller	Single-upgradeable controller
CPU	Intel® Xeon® 64-bit 4-core (8-core processor models are also available)	
Memory	16 GB DDR4 ECC DIMM (per controller)	
Memory Module Pre-installed	4 (per controller)	
Total Memory Slots	256 GB (per controller)	
Storage	3.5" Slot x 24	
Drive Bays	504	
Maximum Drive Bays with Expansion Unit	3.5" & 2.5" SAS, NL-SAS, SED HDD 3.5" & 2.5" SATA(*) HDD 2.5" SAS, SATA(*), SED SSD	
Compatible Drive Type	SAS 12 Gb/s SAS 12 Gb/s, SATA 6 Gb/s(*) (*) SATA drives only work with single controller systems	
Drive Interface	528 TB (calculate 22 TB HDD)	
Maximum Internal Raw Capacity	11,088 TB (calculate 22 TB HDD)	
Maximum Raw Capacity with Expansion Units	Yes	
Hot Swappable Drive	Yes	
Connectivity Port	(Gen 3x8 Slot) x 2	
PCIe Expansion	1 (onboard management port per controller)	
1 GbE RJ45 LAN Port	4 (onboard per controller) / 4 (option)	
10 GbE SFP+ LAN Port	4 (option)	
10 GbE RJ45 LAN Port	2 (option) / 4 (option)	
25 GbE SFP28 LAN Port	2 (option) / 4 (option)	
16 Gb SFP+ Fibre Channel	2 (option)	
32 Gb SFP28 Fibre Channel	2 (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	
Storage OS	RAID Type: 0 / 1 / 3 / 5 / 6 / 10 / 30 / 50 / 60 / 5EE / 6EE / 50EE / 60EE / N-way mirror	
RAID Type	Storage Efficiency: Thin provisioning	
Storage Efficiency	Software Acceleration: SSD cache (option) / Auto tiering (option)	
Software Acceleration	Data Protection: Snapshot / Local volume clone	
Data Protection	Remote Replication: Asynchronous (built-in) / Synchronous (option)	
Remote Replication	Security: HTTPS / SSH / iSCSI CHAP / ISE & SED	
Security	Management: Web UI / Serial console / RESTful API / S.E.S. / LCM	
Management	Appearance	
Dimension (H x W x D) (mm)	170.3 x 438 x 515	
Net Weight (kg)	25.9	
Gross Weight (kg)	28.3	
Others	Memory Protection: Cache-to-Flash (Supercapacitor Module + Flash Module) (option)	
Memory Protection	System Fan: 4 pcs	
System Fan	Power Supply Unit: 850 W x 2 (80 PLUS Platinum)	
Power Supply Unit	Power Consumption: 648 W	
Power Consumption	Certification: CE / FCC / BSMI	
Certification	Standard Warranty: System: 3 years Supercapacitor Module: 1 year	
Standard Warranty		