

XCubeSAN 5300 Series

Best Hybrid Performance for Modern Enterprise Applications

Key Benefits

Outstanding Performance

- Ultra-high performance with 20 GB/s and 1.8M IOPS
- Outstanding scale-up capability up to 16.7 PB

Dependable Data Experience

- 99.999% 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

Overview

The XCubeSAN 5300 series is an enterprise-level hybrid flash storage system. The new standard for enterprise-class storage workloads, it provides extreme simplicity, scalability, and a balance of performance and price. Ultra-high performance is designed to be the ideal solution for applications in mission-critical data centers, high-performance computing, virtualization, or media environments.

Comparable to All-Flash Array Performance

The XS5300 range of SAN's includes the industry leading density 2U 26-bay, small form factor XS5326. QSAN's host cards allow the XS5300 range to offer great flexibility with built-in 8-port 10 GbE iSCSI (SFP+) and up to 24 host ports in a dual-controller system, enabling direct connection to multiple hosts without switches. Additional host cards include 32 Gb / 16 Gb Fibre Channel and 25 GbE / 10 GbE iSCSI options. With the ability to deliver 1.8M IOPS and 20 Gb/s throughput, the new QSAN XS5300 can also deliver low latency like an all-flash array.

Mission-Critical Data Center



The XS5300 series allows 10,000+ customers to access data at the same time, optimizing the overall application of mission-critical data centers and enhancing business value.

High-Performance Computing



The XS5300 series provides lightning-fast, highly reliable IT infrastructure to process, store, and analyze massive amounts of data to meet your operational needs.

Virtualization



The XS5300 series can deploy multiple virtual machines with high IOPS and low latency. Even under plenty of real-time access, the virtual machine servers will not slow down.

Media Editing



The XS5300 series improves the production efficiency of synchronized media and produces more animations. The workstations will not cause excessive processing time due to real-time collaboration.

PROTOCOLS

iSCSI, Fibre Channel, NVMe, SATA, SAS

AGILITY SERVICES

QThin, QoS

DATA PROTECTION

QSnap, QClone, QReplica

ENGINE

NTB, QSOE, Space Reclaim, Reliability

VIRTUALIZATION & APIs

VAAI, ODX, VDI, RESTful

MONITORING

QReport, Task Monitoring

SECURITY

QAuth, SED & ISE

FLASH MANAGEMENT

QLife, QSRAID, LVM, XFinder

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.

High Availability and Enterprise Reliability

With the exponential growth of data, fast, stable, and easy to manage have become the foundation of modern IT. The XCubeSAN series provides a complete storage solution that accelerates data transmission and simplifies the complex management process from construction to maintenance. Make enterprises focus on value creation instead of operation management.

• Dual-Active Design

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, enables the system to withstand critical situations.

• Scale-up Solution

The XS5300 provides massive scale-up capabilities by connecting XCubeDAS or 3rd-party expansion units with up to 546 disk drives or 16.7 PB raw capacity for future data growth.

• Cache-to-Flash Memory Protection

The XS5300 now offers battery-free cache backup, but instead uses compact flash and supercapacitors that have advantages over batteries to protect cached data during power outages.

XS5300 Series Specification Highlights



Model Name	XS5324D (Dual) XS5324S (Single)	XS5316D (Dual) XS5316S (Single)	XS5312D (Dual) XS5312S (Single)	XS5326D (Dual) XS5326S (Single)
Form Factor	4U 24-bay, LFF	3U 16-bay, LFF	2U 12-bay, LFF	2U 26-bay, SFF
Processor	Intel® Xeon® 64-bit 4-core (8-core processor models are also available)			
Memory	16 GB RAM DDR4 ECC-DIMM (up to 256 GB) (per controller)			
Max. Drive (Expansion Units)	504	496	492	546
Compatible Drive Type	3.5" & 2.5" SAS, NL-SAS, SED HDD 3.5" & 2.5" SATA(*) HDD 2.5" SAS, SATA(*), SED SSD			2.5" SAS, NL-SAS, SED HDD 2.5" SATA(*) HDD 2.5" SAS, SATA(*), SED SSD
Drive Interface	SAS 12 Gb/s, SATA 6 Gb/s(*) (*) SATA drives only work with single controller systems			
Max. Capacity (Expansion Units)	11,088 TB (calculate 22 TB HDD)	10,912 TB (calculate 22 TB HDD)	10,824 TB (calculate 22 TB HDD)	16,733 TB (calculate 30.72 TB SSD)
1 GbE RJ45 LAN Port	1 (onboard management port per controller)			
10 GbE SFP+ LAN Port	4 (onboard per controller) / 4 (option)			
10 GbE RJ45 LAN Port	2 iSCSI (option)			
25 GbE SFP28 LAN Port	2 iSCSI (option)			
16 Gb SFP+ Fibre Channel	2 (option) / 4 (option)			
32 Gb SFP28 Fibre Channel	2 (option)			
12Gb/s SAS Wide Port	2 (onboard per controller)			
Certification	CE / FCC / BSMI			
Warranty	System: 3 years / Supercapacitor Module: 1 year			

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