

# **QSAN Hybrid Flash Storage**

# XCubeSAN 3316

Optimize Price and Performance for SMB Workloads

### **Key Benefits**

#### **Outstanding Performance**

- Workload and space balancing with dual active architecture
- Excellent performance with 12.8 GB/s and 1.3M IOPS
- Outstanding scale-up capability up to 10.9 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

#### Versatile for Mixed Workloads

The XCubeSAN 3316 (3.5" 3U 16-bay) is an affordable, right sized hybrid flash storage system. The new standard for entry-level storage workloads with extreme simplicity, scalability, and a balance of performance and price for SMB limited budgets. Offers outstanding performance ideal for modern applications such as virtualization, media editing, large scale surveillance, and backup.

#### **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 XS3316 provides massive scale-up capabilities by connecting XCubeDAS or 3rd-party expansion units with up to 496 disk drives or 10.9 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.

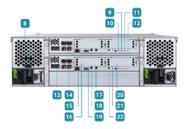
#### **Secure Data and Secure Management**

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**

XS3316D	XS3316S
Dual-active controller	Single-upgradeable controller
Intel® Xeon® 64-bit 4-core	
8 GB DDR4 FCC DIMM (per controller)	
250 GB (per controller)	
3.5" Slot v 16	
0.0 Glot x 10	
496	
3.5" & 2.5" SAS, NL-SAS, SED HDD 2.5" SAS, SED SSD	3.5" & 2.5" SAS, NL-SAS, SED HDD 3.5" & 2.5" SATA(*) HDD 2.5" SAS, SATA(*), SED SSD
SAS 12 Gb/s	SAS 12 Gb/s, SATA 6 Gb/s(*) (*) SATA drives only work with single controller systems
352 TB (calculate 22 TB HDD)	
10,912 TB (calculate 22 TB HDD)	
Yes	
(Gen 3x8 Slot) x 2	
1 (onboard management port per controlle	er)
4 (onboard per controller) / 4 (option)	
4 (option)	
2 (option) / 4 (option)	
2 (onboard per controller)	
	· 1
Console Fortx 1, dervice Fort (of 6)	X 1
YEVO	
	FE / 6FE / 50FE / 60FE / Naway mirror
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vveb UI / Serial console / RESTful AF	71 / S.E.S. / LUM
120 4 v 420 v E15	
Ocaba ta Flash (O	- Clark Madula Vanda N
	+ Flash Module) (option)
4 pcs	
850 W x 2 (80 PLUS Platinum)	
534 W	
CE / FCC / BSMI	
System: 3 years Supercapacitor Module: 1 year	
	Intel® Xeon® 64-bit 4-core  8 GB DDR4 ECC DIMM (per controller) 4 (per controller) 256 GB (per controller) 3.5" Slot x 16 496 3.5" & 2.5" SAS, NL-SAS, SED HDD 2.5" SAS, SED SSD  SAS 12 Gb/s 352 TB (calculate 22 TB HDD) 10,912 TB (calculate 22 TB HDD)  Yes  (Gen 3x8 Slot) x 2 1 (onboard management port per controller) 4 (option) 2 (option) / 4 (option) 2 (option) / 4 (option) 2 (option) / 4 (option) 2 (option) 2 (onboard per controller) 1 (front) / 2 (rear) Console Port x 1, Service Port (UPS) x  XEVO 0 / 1 / 3 / 5 / 6 / 10 / 30 / 50 / 60 / 5 Thin provisioning SSD cache (option) / Auto tiering (option) Snapshot / Local volume clone Asynchronous (built-in) / Synchronous HTTPS / SSH / iSCSI CHAP / ISE & S Web UI / Serial console / RESTful AF  130.4 x 438 x 515 21.7 24  Cache-to-Flash (Supercapacitor Module 4 pcs 850 W x 2 (80 PLUS Platinum) 534 W CE / FCC / BSMI System: 3 years

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