

QSAN Hybrid Flash Storage

# XCubeSAN 3300

Optimize Price and Performance for SMB Workloads

# **Key Benefits**

#### **Outstanding Performance**

- Industry leading density with dual active architecture
- Excellent performance with 12.8 GB/s and 1.3M IOPS
- Outstanding scale-up capability up to 16.7 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



# Leading Density with Uncompromised Performance

The XCubeSAN 3300 series is an affordable 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 XS3326 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.

## Proven Simplicity - "Set and Forget" Data Services

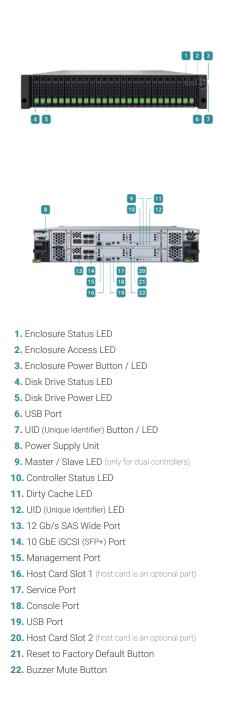
XEVO, a storage management system with intuitive GUI designs, helps to save time in storage deployment considerably. XEVO also delivers enterprise storage features including complete RAID level protection, RAID EE with fast rebuild, thin provisioning, SSD cache, auto-tiering, and more. With the help 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 arraybased 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.



# **System Specification**

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Model Name	XS3326D	XS3326S	
Architecture	Dual-active controller	Single-upgradeable controller	
CPU			
Processor	Intel® Xeon® 64-bit 4-core		
Memory			
Memory Module Pre-installed	8 GB DDR4 ECC DIMM (per controlle	er)	
Total Memory Slots	4 (per controller)		
Memory Expandable up to	256 GB (per controller)		
Storage			
Drive Bays	2.5" Slot x 26		
Maximum Drive Bays with Expansion Unit	546		
Compatible Drive Type	2.5" SAS, NL-SAS, SED HDD 2.5" SAS, 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	SAS 12 Gb/s, SATA 6 Gb/s(*) (*) SATA drives only work with single controller systems	
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 3x8 Slot) x 2		
1 GbE RJ45 LAN Port	1 (onboard management port per contro	oller)	
10 GbE SFP+ LAN Port	4 (onboard per controller) / 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) / 4 (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	S) x 1	
Software Specification			
Storage OS	XEVO		
RAID Type	0/1/3/5/6/10/30/50/60/	' 5EE / 6EE / 50EE / 60EE / N-way mirror	
Storage Efficiency	Thin provisioning		
Software Acceleration	SSD cache (option) / Auto tiering (option)		
Data Protection	Snapshot / Local volume clone		
Remote Replication	Asynchronous (built-in) / Synchronous (option)		
Security	HTTPS / SSH / ISCSI CHAP / ISE &	HTTPS / SSH / iSCSI CHAP / ISE & SED	
Management	Web UI / Serial console / RESTful /	API / S.E.S. / LCM	
Appearance			
Dimension (H x W x D) (mm)	88 x 438 x 491		
Net Weight (kg)	16.3	16.3	
Gross Weight (kg)	18.6		
Others			
Memory Protection	Cache-to-Flash (Supercapacitor Mode	ule + Flash Module) (option)	
System Fan	4 pcs		
Power Supply Unit	850 W x 2 (80 PLUS Platinum)		
Power Consumption	429 W		
Certification	CE / FCC / BSMI		
Standard Warranty	System: 3 years Supercapacitor Module: 1 year		

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- Enclosure Status LED
   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
- $\textbf{20. Host Card Slot 2} \ (\text{host card is an optional part})$
- 21. Reset to Factory Default Button
- 22. Buzzer Mute Button

#### **System Specification**

Model NameX933240X933245ArchitectureDual-active controllerSingle-upgradeable controllerCFUProcessorIntel® Xeon® 64-bit 4-coreMemoryMemory Module Pre-installed8 GB DDR4 ECC DIMM (per controller)Memory Expandable up to256 GB (per controller)StorageUDrive Bays3.5° Slot x 24Maximum Drive Bays3.5° Slot x 24Maximum Drive Bays3.5° SAS, NL-SAS, SED MDD 2.5° SAS, SLAS, SLAS			
CPU Processor Intel® Xeon® 64-bit 4-core Memory Memory Module Pre-installed 8 GB DDR4 ECC DIMM (per centroller) Total Memory Stots 4 (per centroller) Memory Expandable up to 256 GB (per centroller) Storage Drive Bays 3.5' S15 tx 2.4 Maximum Drive Bays with Expansion Unit 35' & 2.5' SAS, SED SSD 35' & 2.5' SAS, NL-SAS, SED HDD 3.5' & 2.5' SAS, NL-SAS, SED HDD 3.5' & 2.5' SAS, STA(2') HDD 2.5' SAS, SED SSD 25' SAS, SED SSD 25' SAS, SATA(2') SED SSD 25' SATA(2') SET SED SED SSD 25' SATA(2') SET SED	Model Name	XS3324D	XS3324S
Processor         Intel® Xeon® 64-bit 4-core           Memory Module Pre-installed         8 GB DDR4 ECC DIMM (per controller)           Total Memory Slots         4 (per controller)           Storage         256 GB (per controller)           Drive Bays         3.5° Slot x 24           Maximum Drive Bays         504           Compatible Drive Type         3.5° & 2.5° SAS, SED SDD         3.5° & 2.5° SAS, SED ADD         3.5° & 2.5° SAS, SED ADDD         3.5° SED SED         5.5	Architecture	Dual-active controller	Single-upgradeable controller
Memory Module Pre-installed & GB DDR4 ECC DIMM (per-ontroller)  Memory Expandable up to 266 GB (per-ontroller)  Total Memory Expandable up to 266 GB (per-ontroller)  Storage  Drive Bays 3.5' Stot x 24  Maximum Drive Bays with Expansion Unit 504  Compatible Drive Type 3.5' & 2.5' SAS, NL-SAS, SED HDD 3.5' & 2.5' SAS, NL-SAS, SED HDD 2.5' SAS, SAT A(HDD 2.5' SAS, SED SDD 2.5' SAS, SAT A(HDD 2.5' SAS, SED SDD 2.5' SAS, SAT A(HDD 2.5' SAS, SED SDD 2.5' SAS, SAT A(HDD 2.5' SAS, SAT A(HDD 2.5' SAS, SAT A(HDD 2.5' SAS, SED SDD 2.5' SAS, SAT A(HDD 2.5' SAT A(HDD 2.5' SAT A(HDD 2.5' SAS, SAT A(HDD 2.5' SAT A(HDD 2.5' SAT A(HDD 2.5' SAS, SAT A(HDD 2.5' SAT A(HD	CPU		
Memory Module Pre-installed       8 GB DDR4 ECC DIMM (per controller)         Total Memory Expandable up to       256 GB (per controller)         Storage       Image: Controller (Controller)         Storage       Storage         Drive Bays       3.5' Stot x 24         Maximum Drive Bays       Stof 4         Compatible Drive Type       3.5' & 2.5' SAS, NL-SAS, SED HDD 2.5' SAS, SED SSD       3.5' & 2.5' SAS, NL-SAS, SED HDD 2.5' SAS, SATA(*) HDD 2.5' SAS, SATA(*) HDD 2.5' SAS, SATA (*) SED SSD         Drive Interface       SAS 12 Gb/s       SAS 12 Gb/s, SATA (*) SED SSD         Maximum Internal Raw Capacity       528 TB (calculate 22 TB HDD)       SAS 12 Gb/s, SATA (*) SED SSD         Maximum Raw Capacity with Expansion Units       11,088 TB (calculate 22 TB HDD)       SAS 12 Gb/s         Maximum Raw Capacity with Expansion Units       1 (calculate 22 TB HDD)       SAS 12 Gb/s         Hots Swappable Drive       Yes       Yes         Connectivity Port       Yes       Yes         Polie Expansion       (Gen 3x8 Slot) x 2       Yes         1 GbE RJ4S LAN Port       1 (onboard per controller) / 4 (option)       Yes         2 GbE SFP28 LAN Port       2 (option) / 4 (option)       Yes         2 GbE SFP28 LAN Port       2 (option) / 4 (option)       Yes         2 GbS SP28 LAN Port       2 (option) /	Processor	Intel® Xeon® 64-bit 4-core	
Total Memory Slots       4 (per controller)         Memory Expandable up to       256 GB (per controller)         Storage       504         Drive Bays       3.5" Slot x 24         Maximum Drive Bays       504         Compatible Drive Type       3.5" & 2.5" SAS, NL-SAS, SED HDD         2.5" SAS, SLE SSD       3.5" & 2.5" SAS, NL-SAS, SED HDD         2.5" SAS, SLE (SSD)       2.5" SAS, SLE (SSD)         Maximum Internal       SAS 12 Gb/s         Maximum Internal       528 TB (calculate 22 TB HDD)         Maximum Raw Capacity       11,088 TB (calculate 22 TB HDD)         Maximum Raw Capacity       11,088 TB (calculate 22 TB HDD)         Maximum Raw Capacity       11,088 TB (calculate 22 TB HDD)         Maximum Raw Capacity       11,088 TB (calculate 22 TB HDD)         Maximum Raw Capacity       11,088 TB (calculate 22 TB HDD)         Maximum Raw Capacity       1 (onboard management port per controller)         10 GbE SFP+ LAN Port       2 (onboard management port per controller)         10 GbE SFP+ LAN Port       2 (onboard per controller) / 4 (option)         12 GbIs SFP38 LAN Port       2 (onboard per controller)         12 GbIs SAS Wide Port       2 (onboard per controller)         12 GbIs SAS Wide Port       2 (onboard per controller)         12 GbIs SAS Wide	Memory		
Memory Expandable up to       256 GB (per controller)         Storage	Memory Module Pre-installed	8 GB DDR4 ECC DIMM (per controller)	
Storage       3.5' Stot x 24         Drive Bays       3.5' & 2.5' SAS, NL-SAS, SED HDD         25' SAS, SED SSD       3.5' & 2.5' SAS, NL-SAS, SED HDD         25' SAS, SED SSD       3.5' & 2.5' SAS, NL-SAS, SED HDD         25' SAS, SED SSD       3.5' & 2.5' SAS, NL-SAS, SED HDD         25' SAS, SATA('), SED SSD       3.5' & 2.5' SAS, NL-SAS, SED HDD         25' SAS, SATA 6 Gb/s(')       (') SATA 16 Gb/s(')         Maximum Internal Raw Capacity       528 TB (calculate 22 TB HDD)         Maximum Raw Capacity       11,088 TB (calculate 22 TB HDD)         Maximum Raw Capacity       11,088 TB (calculate 22 TB HDD)         Maximum Raw Capacity       11,088 TB (calculate 22 TB HDD)         Maximum Raw Capacity       11,088 TB (calculate 22 TB HDD)         Maximum Raw Capacity       11,088 TB (calculate 22 TB HDD)         Maximum Raw Capacity       11,088 TB (calculate 22 TB HDD)         Maximum Raw Capacity       11,088 TB (calculate 22 TB HDD)         Motion Expansion       (Gen 3x8 Slot) x 2         I GbE RJAF LAN Port       1 (ornboard management port per controller)         I Gobe SFP+ LAN Port       2 (option) / 4 (option)         25 GbE SFP28 LAN Port       2 (option) / 4 (option)         26 Gbe SFP28 Ebre Channel       2 (option) / 4 (option)         26 Gbe SFP28 Ebre Channel       2 (	Total Memory Slots	4 (per controller)	
Drive Bays 3.5' Slot x 24 Maximum Drive Bays with Expansion Unit 5, 54, 2.5' SAS, NL-SAS, SED HDD 2.5' SAS, SLE SSD 2.5' SAS, NL-SAS, SED HDD 2.5' SAS, SLE', SSD SSD 3.5' & 2.5' SATA(*) HDD 2.5' SAS, SATA(*), SED SSD Drive Interface SAS 12 Gb/s SAS 12 Gb/s, SAS 12 Gb/s, SATA 6 Gb/s(*) (*) SATA drives only work with single controller systems Maximum Internal Raw Capacity with Expansion Units 11,088 TB (calculate 22 TB HDD) Maximum Raw Capacity with Expansion Units 11,088 TB (calculate 22 TB HDD) Maximum Raw Capacity with Expansion Units 11,088 TB (calculate 22 TB HDD) Hot Swappable Drive Ves Connectivity Port PCIe Expansion (Gen 3x8 Slot) x 2 1 GbE RJ-LA N Port 1 (onboard management port per controller) 10 GbE SFP-LAN Port 2 (option) / 4 (option) 10 GbE SFP-LAN Port 2 (option) / 4 (option) 10 GbE SFP2 LAN Port 2 (option) / 4 (option) 23 Gb SFP28 LAN Port 2 (option) / 4 (option) 24 Gb SFP28 LAN Port 2 (option) / 4 (option) 25 GbE SFP28 LAN Port 2 (option) / 4 (option) 25 GbE SFP28 LAN Port 2 (option) / 4 (option) 26 GbE SFP28 LAN Port 2 (option) / 4 (option) 27 GbE SFP28 LAN Port 1 (front) / 4 (option) 28 Gb SFP28 Fibre Channel 2 (option) / 4 (option) 29 Gb SFP28 LAN Port 1 (front) / 4 (option) 20 Gb SFP28 LAN Port 2 (onboard per controller) USB Port 1 (front) / 4 (option) 50 Frage OS XEVO RAID Type 0 / 1 / 3 / 5 / 6 / 10 / 30 / 50 / 60 / 5EE / 6EE / 50EE / 60EE / N-way mirror 50 Frage Efficiency Thin provisioning 50 Frage Conserver Thin Provisioning 5	Memory Expandable up to	256 GB (per controller)	
Maximum Drive Bays with Expansion Unit     504       Compatible Drive Type     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* SAS, SATA(*), SED SSD       Drive Interface     SAS 12 Gb/s     SAS 12 Gb/s, SATA 6 Gb/s(*) (*) SATA drives only work with single controller systems       Maximum Internal Raw Capacity     528 TB (calculate 22 TB HDD)     SAS 12 Gb/s SATA 6 Cb/s(*) (*) SATA drives only work with single controller systems       Maximum Raw Capacity with Expansion Units     11,088 TB (calculate 22 TB HDD)     SAS 12 Gb/s SATA 6 Cb/s(*) (*) SATA drives only work with single controller systems       Maximum Raw Capacity with Expansion Units     11,088 TB (calculate 22 TB HDD)     SAS 12 Gb/s       PCICE Expansion     (Gen 3x8 Slot) x 2     SAS 12 Gb/s       1 GbE RJ45 LAN Port     1 (onboard management port per controller)     10 GbE SFP+ LAN Port     4 (orbion)       2 GbE SFP2 EX LAN Port     2 (option) / 4 (option)     2 (option)     2 (option)       2 GbE SFP2 EX LAN Port     2 (option) / 4 (option)     2 Gb/s SFP2 EX SW Vide Port     2 (option)       2 GbS SFP2 EX LAN Port     1 (nonb / 2 (eer)     Software Specification       Storage OS     XEVO     XEVO       RAD Type     0 / 1 / 3 / 5 / 6 / 10 / 30 / 50 / 60 / 5EE / 6EE / 50EE / 60EE / N-way mirror       Storage Specification     Spashot / Local volume clone       Remote Replication     Asynchronous (ult-ih) / Synchronous (	Storage		
with Expansion Unit     304       Compatible Drive Type     3.5° 8.2.5° SAS, NL-SAS, SED HDD 2.5° SAS, SED SSD     3.5° 8.2.5° SAS, NL-SAS, SED HDD 3.5° 8.2.5° SAS, NL-SAS, SED HDD 2.5° SAS, SATA(*), SED SSD       Drive Interface     SAS 12 Gb/s     SATA 6 Gb/s(*) (*)SATA 6 db/s(*) (*)SATA 6 db/s(*) (	Drive Bays	3.5" Slot x 24	
Compatible Drive Type       3.5 # 2.5 SATA(*) HDD         2.5 SAS, SED SDD       3.5 # 2.5 'SATA(*) HDD         2.5 SAS, SED SDD       2.5 'SAS, SATA(*), SED SSD         Drive Interface       SAS 12 Gb/s       SAS 12 Gb/s         Maximum Internal Raw Capacity       528 TB (calculate 22 TB HDD)       SAS 12 Gb/s         Maximum Raw Capacity       11,088 TB (calculate 22 TB HDD)       SAS 12 Gb/s         Maximum Raw Capacity       Yes       Connectivity Port         PCIe Expansion       (Gen 348 Slot) x 2       Interval         1 0 GbE SFP+ LAN Port       1 (onboard management port per controller)       ID GbE SFP+ LAN Port       2 (option) / 4 (option)         10 GbE SFP+ EXP Port       2 (option) / 4 (option)       ID (Se SFP28 Fibre Channel       2 (option)         22 Gb SFP28 Fibre Channel       2 (option) / 4 (option)       ID (Se SFP Fibre Channel       2 (option)         22 Gb SAS Wide Port       2 (onboard per controller)       UUS S A       ID (Se SFP Fibre Channel       2 (option)         23 Gb SAS Wide Port       2 (onboard per controller)       UUS S A       ID (Se SFP Fibre Channel       2 (option)         24 Gb SAS Wide Port       1 (nonal / 2 (ceri)       ID (ID (SE / 50EE / 50EE / 50EE / 50EE / 50EE / N-way mirror         Storage OS       XEVO       XEVO       RAND Type       0 / 1 / 1 / 5 /		504	
Drive InterfaceSAS 12 Gb/s(*) SATA drives only work with single controller systemsMaximum Internal Raw Capacity528 TB (calculate 22 TB HDD)Maximum Raw Capacity11,088 TB (calculate 22 TB HDD)With Expansion Units11,088 TB (calculate 22 TB HDD)Hot Swappable DriveYesConnectivity PortVesPCIe Expansion(Gen 3x8 Slot) x 21 GbE RJ45 LAN Port1 (onboard management port per controller)10 GbE SFP4 LAN Port2 (option) / 4 (option)10 GbE SFP4 LAN Port2 (option) / 4 (option)16 Gb SFP4 Fibre Channel2 (option) / 4 (option)25 GbE SFP28 LAN Port2 (option) / 4 (option)26 Gb SFP4 Fibre Channel2 (option) / 4 (option)27 Gb SAS Wide Port2 (option) / 4 (option)28 Gb SP28 Fibre Channel2 (option)29 Gb SP28 Fibre Channel2 (option)20 Gb SP42 (onboard per controller)11 Software Specification2 (option)20 Gb SP28 Fibre Channel2 (option)20 Gb SP28 Fibre Channel2 (option)20 Gb Sepecification3 (option)20 Software SpecificationS (option)20 Software SpecificationS (option)20 Software SpecificationS (option) / Auto tiering (option)20 Software AccelerationS (optican) / Auto tiering (option)20 Software AccelerationS (optican) / Auto tiering (option)20 Software SpecificationAsynchronous (built-in) / Synchronous (option)20 Software AccelerationS (optican) / Auto tiering (option)20	Compatible Drive Type		3.5" & 2.5" SATA(*) HDD
Raw Capacity     528 TB (calculate 22 TB HDD)       Maximum Raw Capacity with Expansion Units     11,088 TB (calculate 22 TB HDD)       Hot Swappable Drive     Yes       Connectivity Port     PCIe Expansion       PCIe Expansion     (Gen 3x8 Slot) x 2       1 GbE RJ45 LAN Port     1 (onboard management port per controller)       10 GbE SFP+ LAN Port     4 (orboard per controller) / 4 (option)       10 GbE FJ45 LAN Port     2 (option) / 4 (option)       16 Gb SFP+ Fibre Channel     2 (option) / 4 (option)       16 Gb SFP28 LAN Port     2 (option) / 4 (option)       12 Gb/s SAS Wide Port     2 (option) / 4 (option)       23 Gb SFP28 Fibre Channel     2 (option) / 4 (option)       23 Gb SFP28 Fibre Channel     2 (option) / 4 (option)       20 Brort     1 (front) / 2 (rear)       Others     Console Port x 1, Service Port (UPS) x 1       Software Specification     SSD cache (option) / Auto tiering (option)       Storage OS     XEVO       RAID Type     0 / 1 / 3 / 5 / 6 / 10 / 30 / 50 / 60 / 5EE / 6EE / 50EE / 60EE / N-way mirror       Storage OS     XEVO       Rander Acceleration     SSD cache (option) / Auto tiering (option)       Data Protection     Snapshot / Local volume clone       Remote Replication     Asynchronous (built-in) / Synchronous (option)       Security     HTTPS / SSH / ISCSI CHAP / ISE & SED	Drive Interface	SAS 12 Gb/s	(*) SATA drives only work with single
with Expansion UnitsT1,068 TB (Calculate 22 TB HDD)Hot Swappable DriveYesConnectivity PortPCIe ExpansionPCIe Expansion(Gen 3x8 Slot) x 21 GER 2445 LAN Port1 (onboard management port per controller)10 GbE SFP+ LAN Port2 (option) / 4 (option)26 GbE SFP28 LAN Port2 (option) / 4 (option)26 GbE SFP28 LAN Port2 (option) / 4 (option)26 Gb SFP+ Fibre Channel2 (option) / 4 (option)26 Gb SFP28 Fibre Channel2 (option) / 4 (option)27 Gb SFP28 Fibre Channel2 (option) / 4 (option)27 Gb SAS Wide Port2 (onboard per controller)USB Port1 (front) / 2 (rear)OthersConsole Port x 1, Service Port (UPS) x 1Software SpecificationStorage OSStorage OSXEVORAID Type0 / 1 / 3 / 5 / 6 / 10 / 30 / 50 / 60 / 5EE / 6EE / 50EE / 60EE / N-way mirrorStorage EfficiencyThin provisioningSoftware AccelerationSSD cache (option) / Auto tiering (option)Data ProtectionSnapshot / Local volume cloneRemote ReplicationAsynchronous (built-in) / Synchronous (option)SecurityHTTPS / SSH / ISCSI CHAP / ISE & SEDManagementWeb UI / Serial console / RESTful API / S.E.S. / LCMAppearanceDimension (H x W x D) (mm)0 Tr0.3 x 438 x 515Net Weight (kg)0 Stern Fan4 pcsPower Supply Unit850 W x 2 (80 PLUS Platinum)Power ConsumptionCache-to-Flash (Supercapacitor Module + Flash Module) (option)System Fan4 pcs		528 TB (calculate 22 TB HDD)	
Connectivity Port         PCIe Expansion       (Gen 3x8 Slot) x 2         1 GbE RJ45 LAN Port       1 (onboard management port per controller)         10 GbE SFP+ LAN Port       4 (onboard per controller) / 4 (option)         10 GbE SFP+ LAN Port       2 (option) / 4 (option)         10 GbE SFP28 LAN Port       2 (option) / 4 (option)         16 Gb SFP28 Fibre Channel       2 (option) / 4 (option)         26 Gb SFP28 Fibre Channel       2 (option) / 4 (option)         26 DS 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       Solary Strage OS         XEVO       RAID Type         O / 1 / 3 / 5 / 6 / 10 / 30 / 50 / 60 / 5EE / 6EE / 50EE / 60EE / N-way mirror         Storage OS       XEVO         RAID Type       0 / 1 / 3 / 5 / 6 / 10 / 30 / 50 / 60 / 5EE / 6EE / 50EE / 60EE / N-way mirror         Storage Efficiency       Thin provisioning         Software Acceleration       SSD cache (option) / Auto tiering (option)         Data Protection       Snapshot / Local volume clone         Remote Replication       Asynchronous (bull-in) / Synchronous (option)         Security       HTTPS / SSH / ISCSI CHAP / ISE & SED         Management		11,088 TB (calculate 22 TB HDD)	
PCIe Expansion(Gen 3x8 Slot) x 21 GbE RJ45 LAN Port1 (onboard management port per controller)10 GbE SFP+ LAN Port4 (onboard per controller) / 4 (option)10 GbE RJ45 LAN Port2 (option) / 4 (option)25 GbE SFP28 LAN Port2 (option) / 4 (option)26 Gb SFP4 Fibre Channel2 (option) / 4 (option)27 Gb SFP28 Fibre Channel2 (option)28 Gb SFP28 Fibre Channel2 (option)29 Gb SFP28 Fibre Channel2 (option)Expansion and External Port2 (onboard per controller)USB Port1 (front) / 2 (rear)OthersConsole Port x 1, Service Port (UPS) x 1Software SpecificationSEVOStorage OSXEVORAID Type0 / 1 / 3 / 5 / 6 / 10 / 30 / 50 / 60 / 5EE / 6EE / 50EE / 60EE / N-way mirrorStorage EfficiencyThin provisioningSoftware AccelerationSSD cache (option) / Auto tiering (option)Data ProtectionSnapshot / Local volume cloneRemote ReplicationAsynchronous (built-in) / Synchronous (option)SecurityHTTPS / SSH / ISCSI CHAP / ISE & SEDManagementWeb UI / Serial console / RESTful API / S.E.S. / LCMAppearanceDimension (H x W x D) (mm)170.3 x 438 x 515Net Weight (kg)25.9Gross Weight (kg)28.3OthersGache-to-Flash (Supercapactor Module + Flash Module) (option)System Fan4 pcsPower Supply Unit850 W x 2 (80 PLUS Platinum)Power Supply Unit850 W x 2 (80 PLUS Platinum)Power Supply Unit850 W x	Hot Swappable Drive	Yes	
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 (option) / 4 (option)         25 GbE SFP28 LAN Port       2 (option) / 4 (option)         16 Gb SFP+ Fibre Channel       2 (option) / 4 (option)         32 Gb SFP28 Fibre Channel       2 (option)         28 Cobs SAS Wide Port       2 (onboard per controller)         USB Port       11 (front) / 2 (rear)         Others       Console Port x 1, Service Port (UPS) x 1         Software Specification       Storage OS         XEVO       RAID Type         AD Type       0 / 1 / 3 / 5 / 6 / 10 / 30 / 50 / 60 / 5EE / 6EE / 50EE / 60EE / N-way mirror         Storage OS       XEVO         RAID Type       0 / 1 / 3 / 5 / 6 / 10 / 30 / 50 / 60 / 5EE / 6EE / 50EE / 60EE / N-way mirror         Storage Efficiency       Thin provisioning         Software Acceleration       SSD cache (option) / Auto tiering (option)         Data Protection       Snapshot / Local volume clone         Remote Replication       Asynchronous (built-in) / Synchronous (option)         Security       HTTPS / SSH / ISCSI CHAP / ISE & SED         Management       Web UI / Serial console / RESTful API / S.E.S. / LCM         Appearance       Dimension (H x	Connectivity Port		
10 GbE SFP+ LAN Port       4 (onboard per controller) / 4 (option)         10 GbE RJ45 LAN Port       2 (option) / 4 (option)         25 GbE SFP28 LAN Port       2 (option) / 4 (option)         26 GbE SFP28 Fibre Channel       2 (option)         2 (option)       4 (option)         32 Gb SFP28 Fibre Channel       2 (option)         Expansion and External Port       1         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       S         Storage OS       XEVO         RAID Type       0 / 1 / 3 / 5 / 6 / 10 / 30 / 50 / 60 / 5EE / 6EE / 50EE / 60EE / N-way mirror         Storage Efficiency       Thin provisioning         Software Acceleration       SSD cache (option) / Auto tiering (option)         Data Protection       Snapshot / Local volume clone         Remote Replication       Asynchronous (built-in) / Synchronous (option)         Security       HTTPS / SSH / iSCSI CHAP / ISE & SED         Management       Web U / Serial console / RESTful API / S.E.S. / LCM         Appearance       Gross Weight (kg)       25.9         Gross Weight (kg)       25.9       Gross Weight (kg)       25.9         Gr	PCIe Expansion	(Gen 3x8 Slot) x 2	
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) / 4 (option)         32 Gb SFP28 Fibre Channel       2 (option)         Expansion and External Port       2 (option) / 2 (rear)         UBB Port       1 (front) / 2 (rear)         Others       Console Port x 1, Service Port (UPS) x 1         Software Specification       Storage OS         XEVO       RAID Type         0 / 1 / 3 / 5 / 6 / 10 / 30 / 50 / 60 / 5EE / 6EE / 50EE / 60EE / N-way mirror         Storage OS       XEVO         RAID Type       0 / 1 / 3 / 5 / 6 / 10 / 30 / 50 / 60 / 5EE / 6EE / 50EE / 60EE / N-way mirror         Storage Cos       XEVO         Rand Type       0 / 1 / 3 / 5 / 6 / 10 / 30 / 50 / 60 / 5EE / 6EE / 50EE / 60EE / N-way mirror         Storage Cos       XEVO         Rand Type       0 / 1 / 3 / 5 / 6 / 10 / 30 / 50 / 60 / 5EE / 6EE / 50EE / 60EE / N-way mirror         Storage Cos       XEVO         Rand Type       0 / 1 / 3 / 5 / 6 / 10 / 30 / 50 / 60 / 5EE / 6EE / 50EE / 60EE / N-way mirror         Storage Efficiency       Thin provisioning         Software Acceleration       SSD cache (option) / Auto tiering (option)         Data Protection       Snapshot / Local volume clone         <	1 GbE RJ45 LAN Port	1 (onboard management port per controll	er)
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       2 (onboard per controller)         USB Port       1 (front) / 2 (rear)         Others       Console Port x 1, Service Port (UPS) x 1         Software Specification       Storage 0S         XEVO       RAID Type         0 / 1 / 3 / 5 / 6 / 10 / 30 / 50 / 60 / 5EE / 6EE / 50EE / 60EE / N-way mirror         Storage OS       XEVO         RAID Type       0 / 1 / 3 / 5 / 6 / 10 / 30 / 50 / 60 / 5EE / 6EE / 50EE / 60EE / N-way mirror         Storage Cost       XEVO         Rander Acceleration       SSD cache (option) / Auto tiering (option)         Data Protection       Snapshot / Local volume clone         Remote Replication       Asynchronous (built-in) / Synchronous (option)         Security       HTTPS / SSH / iSCSI CHAP / ISE & SED         Management       Web UI / Serial console / RESTful API / S.E.S. / LCM         Appearance       Dimension (H x W x D) (mm)       170.3 x 438 x 515         Net Weight (kg)       25.9       Gross Weight (kg)       25.9         Gross Weight (kg)       28.3       Others         Memory Protection       Cache-to-Flash (Supercapacitor Module +	10 GbE SFP+ LAN Port	4 (onboard per controller) / 4 (option)	
16 Gb SFP+ Fibre Channel2 (option) / 4 (option)32 Gb SFP28 Fibre Channel2 (option)Expansion and External Port2 (onboard per controller)12 Gb/s SAS Wide Port2 (onboard per controller)USB Port1 (front) / 2 (rear)OthersConsole Port x 1, Service Port (UPS) x 1Software SpecificationStorage OSXEVORAID Type0 / 1 / 3 / 5 / 6 / 10 / 30 / 50 / 60 / 5EE / 6EE / 50EE / 60EE / N-way mirrorStorage GSXEVORAID Type0 / 1 / 3 / 5 / 6 / 10 / 30 / 50 / 60 / 5EE / 60EE / N-way mirrorStorage EfficiencyThin provisioningSoftware AccelerationSSD cache (option) / Auto tiering (option)Data ProtectionSnapshot / Local volume cloneRemote ReplicationAsynchronous (built-in) / Synchronous (option)SecurityHTTPS / SSH / iSCSI CHAP / ISE & SEDManagementWeb UI / Serial console / RESTful API / S.E.S. / LCMAppearanceDimension (H x W x D) (mm)170.3 x 438 x 515Net Weight (kg)25.9Gross Weight (kg)25.9Gross Weight (kg)25.9Power Supply Unit850 W x 2 (80 PLUS Platinum)Power Consumption648 WCertificationCE / FCC / BSMIStandard WarrantySystem: 3 years	10 GbE RJ45 LAN Port	2 (option) / 4 (option)	
32 Gb SFP28 Fibre Channel2 (option)Expansion and External Port2 (onboard per controller)12 Gb/s SAS Wide Port2 (onboard per controller)USB Port1 (front) / 2 (rear)OthersConsole Port x 1, Service Port (UPS) x 1Software SpecificationStorage OSXEVORAID Type0 / 1 / 3 / 5 / 6 / 10 / 30 / 50 / 60 / 5EE / 6EE / 50EE / 60EE / N-way mirrorStorage GSXEVORAID Type0 / 1 / 3 / 5 / 6 / 10 / 30 / 50 / 60 / 5EE / 6EE / 50EE / 60EE / N-way mirrorStorage EfficiencyThin provisioningSoftware AccelerationSSD cache (option) / Auto tiering (option)Data ProtectionSnapshot / Local volume cloneRemote ReplicationAsynchronous (built-in) / Synchronous (option)SecurityHTTPS / SSH / iSCSI CHAP / ISE & SEDManagementWeb UI / Serial console / RESTful API / S.E.S. / LCMAppearanceDimension (H x W x D) (mm)170.3 x 438 x 515Net Weight (kg)25.9Gross Weight (kg)25.9Gross Weight (kg)25.9Cache-to-Flash (Supercapacitor Module + Flash Module) (option)System Fan4 pcsPower Supply Unit850 W x 2 (80 PLUS Platinum)Power Consumption648 WCertificationCE / FCC / BSMIStandard WarrantySystem: 3 years	25 GbE SFP28 LAN Port	2 (option) / 4 (option)	
Expansion and External Port2 (onboard per controller)12 Gb/s SAS Wide Port2 (onboard per controller)USB Port1 (front) / 2 (rear)OthersConsole Port x 1, Service Port (UPS) x 1Software SpecificationStorage OSXEVORAID TypeQ / 1 / 3 / 5 / 6 / 10 / 30 / 50 / 60 / 5EE / 6EE / 50EE / 60EE / N-way mirrorStorage EfficiencyThin provisioningSoftware AccelerationSSD cache (option) / Auto tiering (option)Data ProtectionSnapshot / Local volume cloneRemote ReplicationAsynchronous (built-in) / Synchronous (option)SecurityHTTPS / SSH / iSCSI CHAP / ISE & SEDManagementWeb UI / Serial console / RESTful API / S.E.S. / LCMAppearanceDimension (H x W x D) (mm)Dimension (H x W x D) (mm)170.3 x 438 x 515Net Weight (kg)25.9Gross Weight (kg)28.3OthersOthersPower Supply Unit850 W x 2 (80 PLUS Platinum)Power Consumption648 WCertificationCE / FCC / BSMIStandard WarrantySystem: 3 years	16 Gb SFP+ Fibre Channel	2 (option) / 4 (option)	
12 Gb/s SAS Wide Port2 (onboard per controller)USB Port1 (front) / 2 (rear)OthersConsole Port x 1, Service Port (UPS) x 1Software SpecificationStorage OSXEVORAID Type0 / 1 / 3 / 5 / 6 / 10 / 30 / 50 / 60 / 5EE / 6EE / 50EE / 60EE / N-way mirrorStorage EfficiencyThin provisioningSoftware AccelerationSSD cache (option) / Auto tiering (option)Data ProtectionSnapshot / Local volume cloneRemote ReplicationAsynchronous (built-in) / Synchronous (option)SecurityHTTPS / SSH / iSCSI CHAP / ISE & SEDManagementWeb UI / Serial console / RESTful API / S.E.S. / LCMAppearanceDimension (H x W x D) (mm)170.3 x 438 x 515Storage Vertex (Supercapacitor Module + Flash Module) (option)System Fan4 pcsPower Supply Unit850 W x 2 (80 PLUS Platinum)Power Consumption648 WCertificationCE / FCC / BSMIStandard WarrantySystem: 3 years	32 Gb SFP28 Fibre Channel	2 (option)	
USB Port1 (front) / 2 (rear)OthersConsole Port x 1, Service Port (UPS) x 1Software SpecificationStorage OSXEVORAID Type0 / 1 / 3 / 5 / 6 / 10 / 30 / 50 / 60 / 5EE / 6EE / 50EE / 60EE / N-way mirrorStorage EfficiencyThin provisioningSoftware AccelerationSSD cache (option) / Auto tiering (option)Data ProtectionSnapshot / Local volume cloneRemote ReplicationAsynchronous (built-in) / Synchronous (option)SecurityHTTPS / SSH / iSCSI CHAP / ISE & SEDManagementWeb UI / Serial console / RESTful API / S.E.S. / LCMAppearanceDimension (H x W x D) (mm)Dimension (H x W x D) (mm)170.3 x 438 x 515Net Weight (kg)28.3OthersOthersMemory ProtectionCache-to-Flash (Supercapacitor Module + Flash Module) (option)System Fan4 pcsPower Supply Unit850 W x 2 (80 PLUS Platinum)Power Consumption648 WCertificationCE / FCC / BSMIStandard WarrantySystem: 3 years	Expansion and External Port		
OthersConsole Port x 1, Service Port (UPS) x 1Software SpecificationStorage OSXEVORAID Type0 / 1 / 3 / 5 / 6 / 10 / 30 / 50 / 60 / 5EE / 6EE / 50EE / 60EE / N-way mirrorStorage EfficiencyThin provisioningSoftware AccelerationSSD cache (option) / Auto tiering (option)Data ProtectionSnapshot / Local volume cloneRemote ReplicationAsynchronous (built-in) / Synchronous (option)SecurityHTTPS / SSH / ISCSI CHAP / ISE & SEDManagementWeb UI / Serial console / RESTful API / S.E.S. / LCMAppearanceDimension (H x W x D) (mm)170.3 x 438 x 515Net Weight (kg)Q5.9Gross Weight (kg)Q8.3OthersMemory ProtectionCache-to-Flash (Supercapacitor Module + Flash Module) (option)System Fan4 pcsPower Supply Unit850 W x 2 (80 PLUS Platinum)Power Consumption648 WCertificationCE / FCC / BSMIStandard WarrantySystem: 3 years	12 Gb/s SAS Wide Port	2 (onboard per controller)	
Software Specification       XEV0         RAID Type       0 / 1 / 3 / 5 / 6 / 10 / 30 / 50 / 60 / 5EE / 6EE / 50EE / 60EE / N-way mirror         Storage Efficiency       Thin provisioning         Software Acceleration       SSD cache (option) / Auto tiering (option)         Data Protection       Snapshot / Local volume clone         Remote Replication       Asynchronous (built-in) / Synchronous (option)         Security       HTTPS / SSH / iSCSI CHAP / ISE & SED         Management       Web UI / Serial console / RESTful API / S.E.S. / LCM         Appearance       Dimension (H × W x D) (mm)         Dimension (H × W x D) (mm)       170.3 x 438 x 515         Net Weight (kg)       25.9         Gross Weight (kg)       28.3         Others       Memory Protection         System Fan       4 pcs         Power Supply Unit       850 W x 2 (80 PLUS Platinum)         Power Consumption       648 W         Certification       CE / FCC / BSMI         Standard Warranty       System: 3 years	USB Port	1 (front) / 2 (rear)	
Storage OSXEVORAID Type0 / 1 / 3 / 5 / 6 / 10 / 30 / 50 / 60 / 5EE / 6EE / 50EE / 60EE / N-way mirrorStorage EfficiencyThin provisioningSoftware AccelerationSSD cache (option) / Auto tiering (option)Data ProtectionSnapshot / Local volume cloneRemote ReplicationAsynchronous (built-in) / Synchronous (option)SecurityHTTPS / SSH / iSCSI CHAP / ISE & SEDManagementWeb UI / Serial console / RESTful API / S.E.S. / LCMAppearanceDimension (H x W x D) (mm)170.3 x 438 x 515Net Weight (kg)25.9Gross Weight (kg)28.3OthersMemory ProtectionCache-to-Flash (Supercapacitor Module + Flash Module) (option)System Fan4 pcsPower Supply Unit850 W x 2 (80 PLUS Platinum)Power Consumption648 WCertificationCE / FCC / BSMIStandard WarrantySystem: 3 years	Others	Console Port x 1, Service Port (UPS) x 1	
RAID Type0 / 1 / 3 / 5 / 6 / 10 / 30 / 50 / 60 / 5EE / 6EE / 50EE / 60EE / N-way mirrorStorage EfficiencyThin provisioningSoftware AccelerationSSD cache (option) / Auto tiering (option)Data ProtectionSnapshot / Local volume cloneRemote ReplicationAsynchronous (built-in) / Synchronous (option)SecurityHTTPS / SSH / iSCSI CHAP / ISE & SEDManagementWeb UI / Serial console / RESTful API / S.E.S. / LCMAppearanceDimension (H x W x D) (mm)170.3 x 438 x 515Net Weight (kg)25.9Gross Weight (kg)28.3OthersMemory ProtectionCache-to-Flash (Supercapacitor Module + Flash Module) (option)System Fan4 pcsPower Supply Unit850 W x 2 (80 PLUS Platinum)Power Consumption648 WCertificationCE / FCC / BSMIStandard WarrantySystem: 3 years	Software Specification		
Storage EfficiencyThin provisioningSoftware AccelerationSSD cache (option) / Auto tiering (option)Data ProtectionSnapshot / Local volume cloneRemote ReplicationAsynchronous (built-in) / Synchronous (option)SecurityHTTPS / SSH / ISCSI CHAP / ISE & SEDManagementWeb UI / Serial console / RESTful API / S.E.S. / LCMAppearanceDimension (H x W x D) (mm)170.3 x 438 x 515Net Weight (kg)25.9Gross Weight (kg)28.3OthersMemory ProtectionCache-to-Flash (Supercapacitor Module + Flash Module) (option)System Fan4 pcsPower Supply Unit850 W x 2 (80 PLUS Platinum)Power Consumption648 WCertificationCE / FCC / BSMIStandard WarrantySystem: 3 years	Storage OS	XEVO	
Software AccelerationSSD cache (option) / Auto tiering (option)Data ProtectionSnapshot / Local volume cloneRemote ReplicationAsynchronous (built-in) / Synchronous (option)SecurityHTTPS / SSH / iSCSI CHAP / ISE & SEDManagementWeb UI / Serial console / RESTful API / S.E.S. / LCMAppearanceDimension (H x W x D) (mm)170.3 x 438 x 515Net Weight (kg)25.9Gross Weight (kg)28.3OthersMemory ProtectionCache-to-Flash (Supercapacitor Module + Flash Module) (option)System Fan4 pcsPower Supply Unit850 W x 2 (80 PLUS Platinum)Power Consumption648 WCertificationCE / FCC / BSMIStandard WarrantySystem: 3 years	RAID Type	0/1/3/5/6/10/30/50/60/5	EE / 6EE / 50EE / 60EE / N-way mirror
Data Protection       Snapshot / Local volume clone         Remote Replication       Asynchronous (built-in) / Synchronous (option)         Security       HTTPS / SSH / iSCSI CHAP / ISE & SED         Management       Web UI / Serial console / RESTful API / S.E.S. / LCM         Appearance       Dimension (H x W x D) (mm)         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)         System Fan       4 pcs         Power Supply Unit       850 W x 2 (80 PLUS Platinum)         Power Consumption       648 W         Certification       CE / FCC / BSMI         Standard Warranty       System: 3 years	Storage Efficiency	Thin provisioning	
Remote ReplicationAsynchronous (built-in) / Synchronous (option)SecurityHTTPS / SSH / iSCSI CHAP / ISE & SEDManagementWeb UI / Serial console / RESTful API / S.E.S. / LCMAppearanceDimension (H × W × D) (mm)170.3 × 438 × 515Net Weight (kg)25.9Gross Weight (kg)28.3OthersMemory ProtectionCache-to-Flash (Supercapacitor Module + Flash Module) (option)System Fan4 pcsPower Supply Unit850 W × 2 (80 PLUS Platinum)Power Consumption648 WCertificationCE / FCC / BSMIStandard WarrantySystem: 3 years	Software Acceleration	SSD cache (option) / Auto tiering (option)	
SecurityHTTPS / SSH / iSCSI CHAP / ISE & SEDManagementWeb UI / Serial console / RESTful API / S.E.S. / LCMAppearanceDimension (H x W x D) (mm)170.3 x 438 x 515Net Weight (kg)25.9Gross Weight (kg)28.3OthersMemory ProtectionCache-to-Flash (Supercapacitor Module + Flash Module) (option)System Fan4 pcsPower Supply Unit850 W x 2 (80 PLUS Platinum)Power Consumption648 WCertificationCE / FCC / BSMIStandard WarrantySystem: 3 years	Data Protection	Snapshot / Local volume clone	
Management       Web UI / Serial console / RESTful API / S.E.S. / LCM         Appearance       Dimension (H x W x D) (mm)       170.3 x 438 x 515         Dimension (H x W x D) (mm)       170.3 x 438 x 515       Other         Gross Weight (kg)       25.9       Good and a console / RESTful API / S.E.S. / LCM         Others       Cache-to-Flash (Supercapacitor Module + Flash Module) (option)       System Fan       4 pcs         Power Supply Unit       850 W x 2 (80 PLUS Platinum)       Power Consumption       648 W       Certification       CE / FCC / BSMI         Standard Warranty       System: 3 years       System: 3 years       System: 3 years	Remote Replication	Asynchronous (built-in) / Synchronous (option)	
AppearanceDimension (H x W x D) (mm)170.3 x 438 x 515Net Weight (kg)25.9Gross Weight (kg)28.3OthersOthersMemory ProtectionCache-to-Flash (Supercapacitor Module + Flash Module) (option)System Fan4 pcsPower Supply Unit850 W x 2 (80 PLUS Platinum)Power Consumption648 WCertificationCE / FCC / BSMIStandard WarrantySystem: 3 years		HTTPS / SSH / ISCSI CHAP / ISE & SED	
Dimension (H x W x D) (mm)170.3 x 438 x 515Net Weight (kg)25.9Gross Weight (kg)28.3OthersMemory ProtectionCache-to-Flash (Supercapacitor Module + Flash Module) (option)System Fan4 pcsPower Supply Unit850 W x 2 (80 PLUS Platinum)Power Consumption648 WCertificationCE / FCC / BSMIStandard WarrantySystem: 3 years	Management	Web UI / Serial console / RESTful AF	PI / S.E.S. / LCM
Net Weight (kg)     25.9       Gross Weight (kg)     28.3       Others	Appearance		
Gross Weight (kg)       28.3         Others	Dimension (H x W x D) (mm)	170.3 x 438 x 515	
Others       Memory Protection     Cache-to-Flash (Supercapacitor Module + Flash Module) (option)       System Fan     4 pcs       Power Supply Unit     850 W x 2 (80 PLUS Platinum)       Power Consumption     648 W       Certification     CE / FCC / BSMI       Standard Warranty     System: 3 years	Net Weight (kg)	25.9	
Memory Protection     Cache-to-Flash (Supercapacitor Module + Flash Module) (option)       System Fan     4 pcs       Power Supply Unit     850 W x 2 (80 PLUS Platinum)       Power Consumption     648 W       Certification     CE / FCC / BSMI       Standard Warranty     System: 3 years		28.3	
System Fan     4 pcs       Power Supply Unit     850 W x 2 (80 PLUS Platinum)       Power Consumption     648 W       Certification     CE / FCC / BSMI       Standard Warranty     System: 3 years			
Power Supply Unit     850 W x 2 (80 PLUS Platinum)       Power Consumption     648 W       Certification     CE / FCC / BSMI       Standard Warranty     System: 3 years			
Power Consumption     648 W       Certification     CE / FCC / BSMI       Standard Warranty     System: 3 years		4 pcs	
Certification     CE / FCC / BSMI       Standard Warranty     System: 3 years	Power Supply Unit	850 W x 2 (80 PLUS Platinum)	
Standard Warranty System: 3 years		648 W	
	Certification	CE / FCC / BSMI	
	Standard Warranty		

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- Enclosure Status LED
   Enclosure Access LED
   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	XS3316D	XS3316S
Architecture	Dual-active controller	Single-upgradeable controller
CPU		
Processor Memory	Intel® Xeon® 64-bit 4-core	
Memory Module Pre-installed	8 GB DDR4 ECC DIMM (per controller)	
Total Memory Slots	4 (per controller)	
Memory Expandable up to	256 GB (per controller)	
Storage	200 02 (per terminal)	
Drive Bays	3.5" Slot x 16	
Maximum Drive Bays with Expansion Unit	496	
Compatible Drive Type	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
Drive Interface	SAS 12 Gb/s	SAS 12 Gb/s, SATA 6 Gb/s(*) (*) SATA drives only work with single controller systems
Maximum Internal Raw Capacity	352 TB (calculate 22 TB HDD)	
Maximum Raw Capacity with Expansion Units	10,912 TB (calculate 22 TB HDD)	
Hot Swappable Drive	Yes	
Connectivity Port		
PCIe Expansion	(Gen 3x8 Slot) x 2	
1 GbE RJ45 LAN Port	1 (onboard management port per controlle	er)
10 GbE SFP+ LAN Port	4 (onboard per controller) / 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) / 4 (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	Consoler of tx 1, Service Fort (of 5) 7	
Storage OS	XEVO	
RAID Type		EE / 6EE / 50EE / 60EE / N-way mirror
Storage Efficiency		
Software Acceleration	Thin provisioning	
	SSD cache (option) / Auto tiering (option)	
Data Protection	Snapshot / Local volume clone	
Remote Replication	Asynchronous (built-in) / Synchronous (option)	
Security	HTTPS / SSH / ISCSI CHAP / ISE & SED	
Management	Web UI / Serial console / RESTful AP	1 / S.E.S. / LUM
Appearance	100.4 400 515	
Dimension (H x W x D) (mm)	130.4 x 438 x 515	
Net Weight (kg)	21.7	
Gross Weight (kg)	24	
Others		
Memory Protection	Cache-to-Flash (Supercapacitor Module	+ Flash Module) (option)
System Fan	4 pcs	
Power Supply Unit	850 W x 2 (80 PLUS Platinum)	
Power Consumption	534 W	
Certification	CE / FCC / BSMI	
Standard Warranty	System: 3 years Supercapacitor Module: 1 year	

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- Enclosure Status LED
   Enclosure Access LED
- 3. Enclosure Power Button / LED
- S. Enclosure i ower button / El
- Disk Drive Status LED
   Disk Drive Power LED
- . DISK DIIVET O
- 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**

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Model Name	XS3312D	XS3312S
Architecture	Dual-active controller	Single-upgradeable controller
CPU		
Processor	Intel® Xeon® 64-bit 4-core	
Memory		
Memory Module Pre-installed	8 GB DDR4 ECC DIMM (per controller)	
Total Memory Slots	4 (per controller)	
Memory Expandable up to	256 GB (per controller)	
Storage	200 02 (particular)	
Drive Bays	3.5" Slot x 12	
Maximum Drive Bays		
with Expansion Unit	492	
Compatible Drive Type	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
Drive Interface	SAS 12 Gb/s	SAS 12 Gb/s, SATA 6 Gb/s(*) (*) SATA drives only work with single controller systems
Maximum Internal Raw Capacity	264 TB (calculate 22 TB HDD)	
Maximum Raw Capacity with Expansion Units	10,824 TB (calculate 22 TB HDD)	
Hot Swappable Drive	Yes	
Connectivity Port		
PCIe Expansion	(Gen 3x8 Slot) x 2	
1 GbE RJ45 LAN Port	1 (onboard management port per controlle	er)
10 GbE SFP+ LAN Port	4 (onboard per controller) / 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) / 4 (option) 2 (option) / 4 (option)	
32 Gb SFP28 Fibre Channel	2 (option)	
Expansion and External Port		
12 Gb/s SAS Wide Port	2 (appeard per controller)	
	2 (onboard per controller)	
USB Port	1 (front) / 2 (rear)	1
Others	Console Port x 1, Service Port (UPS) >	
Software Specification		
Storage OS	XEVO	
RAID Type		EE / 6EE / 50EE / 60EE / N-way mirror
Storage Efficiency	Thin provisioning	
Software Acceleration	SSD cache (option) / Auto tiering (option	on)
Data Protection	Snapshot / Local volume clone	
Remote Replication	Asynchronous (built-in) / Synchronous (option)	
Security	HTTPS / SSH / iSCSI CHAP / ISE & SED	
Management	Web UI / Serial console / RESTful AF	PI / S.E.S. / LCM
Appearance		
Dimension (H x W x D) (mm)	88 x 438 x 515	
Net Weight (kg)	16.4	
Gross Weight (kg)	18.8	
Others		
Memory Protection	Cache-to-Flash (Supercapacitor Module	+ Flash Module) (option)
System Fan	4 pcs	
Power Supply Unit	850 W x 2 (80 PLUS Platinum)	
Power Consumption	407 W	
Certification	CE / FCC / BSMI	
	System: 3 years	
Standard Warranty	Supercapacitor Module: 1 year	

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