

Highlights

PERFORMANCE

- Up to 750K end-to-end IOPS to accelerate all storage operation
- Massive sequential throughput of up to 11,000MB/s read and 5,500MB/s write
- EonStor DS 3024B has the excellent IOPS per dollar ratio (US\$0.24/IOPS) by delivering an impressive and reliable performance score of 218K IOPS
- EonStor DS 4024B is ranked no.1 in SPC-2 price/performance ratio (US\$6.80 dollars per MB/s) in 2017

DATA AND SECURITY SERVICES

- SSD cache accelerates read performance for hot data
- A super capacitor with a flash drive ensures data integrity during power outages

FLEXIBLE SCALABILITY

- Holding up to 448 drives with expansion enclosures
- Expansion enclosures come in diverse form factors (e.g. SFF 2U 24-bay, LFF 3U 16-bay, and LFF 4U 60-bay) to simplify storage expansion

USER-FRIENDLY MANAGEMENT

- The exclusive SANWatch web-based interface allows easy management via a web browser
- Proprietary RAIDWatch provides RAID protection and powerful management

Introduction

EonStor DS is a high-availability SAN storage solution designed for enterprises. Its hardware design features multiple form factors, symmetric active-active controllers, flexible host boards to choose from, and reliable modular design with high expandability. The management software comes with complete data services and an easy-to-use management interface. EonStor DS is ideal for all SAN environments and enterprise applications (e.g. database, virtualization, video editing, backup, and surveillance) to meet your performance or budget needs.

Smart data protection against power failures

EonStor DS has a built-in smart data-saving mechanism that reacts immediately to power failures. When a power failure strikes, EonStor DS continues being powered on by the super capacitor, a long-enduring electricity container that requires no maintenance, and immediately writes unsaved data to a flash drive module to avoid potential data loss. Once the power supply is back, the system starts retrieving and integrating data from the flash drive, ensuring maximum data integrity and availability.

Intuitive management interface

Clear and easy-to-act-upon system status messages make troubleshooting simple even without elaborate IT support. Additionally, integrated smart media scan prevents data errors and corruption. It works in the background at all times without affecting system performance, keeping a close tab on your data to ensure its integrity.

Effortless management with proprietary tools

SANWatch is the proprietary web-based management interface that gives you full control over EonStor DS and its storage environment. You can directly access the system configurations and information just with a web browser. RAIDWatch is another proprietary utility application that allows you to enhance the RAID performance of EonStor DS.

Furthermore, with a complete set of command lines, you can reach the system's lower layer and fine-tune its configurations and behavior for optimal efficiency.

Product Series		DS 1000 Gen2	DS 2000 Gen2	DS 3000U	DS 4000 Gen2	DS 4000U
	2U 12-bay	DS 1012 G2 DS 1012 R2C/R2L	DS 2012 G2/R2C	DS 3012 GU/RUC	-	-
	2U 24-bay	DS 1024 G2B DS 1024 R2CB/R2LB	DS 2024 G2B/R2CB	DS 3024 SUCB/RUCB	DS 4024 S2CB/R2CB	DS 4024 SUCB/RUCB
Form Factor	3U 16-bay	DS 1016 G2 DS 1016 R2C/R2L DS 1016 G2NH/R2LNH	DS 2016 G2/R2C	DS 3016 GU/RUC	DS 4016 G2/R2C	DS 4016 SUC/RUC
	4U 24-bay	DS 1024 G2 DS 1024 R2C/R2L	DS 2024 G2/R2C	DS 3024 SUC/RUC	DS 4024 S2C/R2C	-
		Note: G: Single controller S: Single controller (Upgradable to dual controller) R: Redundant controller C: Super capacitor L: BBU B: 2.5" form factor NH: non host board 2: Gen2 U: Ultra performance				
Controller				redundant or Single upgradal	ble to redundant	
Cache Backup Techniques		Super capacitor+Flash module or BBU+Flash module (Only for upgradable single controller and dual controller models)				
Cache Memory		Default DDR3 2GB Default DDR4 4GB Expandable up to 16GB Expandable up to 64GB		R4 4GB	Default DDR4 4GB Expandable up to 128GB	
Supported Drives		2.5" SAS or SATA SSD 2.5" 10,000 or 15,000 RPM SAS HDD 3.5" 7,200 RPM SAS or SATA HDD				
		Note: Fo	or the latest compatibility det			y Matrix.
Max. Drive Number		448				
Max. SSD Cache Pool	Max. SSD Cache Pool		1.6TB	6.4TB	6.4TB	6.4TB
Max. Onboard SAS Expansion Ports		2	2	2	2	4
Max. Onboard 1GbE Ports		8	8	8	8	4
Max. Host Board Slots		2	2	4	4	4
Host Board Options		32Gb/s FC x 2 1GbE (RJ-45) x 4 10GbE (RJ-45) x 2 10GbE (SFP +) x 2 25GbE (SFP28) x 2 40GbE (QSFP+) x 2 12Gb/s SAS x 2		32Gb/s FC x 2 32Gb/s FC x 4 1GbE (RJ-45) x 4 10GbE (RJ-45) x 2 10GbE (SFP+) x 2 25GbE (SFP28) x 2 40GbE (QSFP+) x 2 12Gb/s SAS x 2		
		Note: 1. The two controllers must have identical slot settings. 2. Fibre channel supports point-to-point and switch mode.				
Max. 16Gb/s FC Ports		8	8	16	16	16
Max. 32Gb/s FC Ports	Max. 32Gb/s FC Ports		4	16	16	16
Max. 1 GbE Ports		16	16	24	24	20
Max. 10GbE Ports (RJ-45)		4	4	8	8	8
Max. 10GbE Ports (SFP+)		4	4	8	8	8
Max. 25GbE Ports (SFP28)		4	4	8	8	8
Max. 40GbE Ports (QSFP+)		4	4	8	8	8
Expansion Enclosure (JBOD)		JB 3012, JB 3016, JB 3024B, JB 3025B, JB 3060L				
Dimensions (without chassis ears and protrusions) (W x H x D)		2U 12-bay: 449 x 88 x 500 mm 2U 24-bay: 449 x 88 x 500 mm 3U 16-bay: 449 x 130 x 550 mm 4U 24-bay: 449 x 174.4 x 550 mm				
Package Dimensions (W x H x D)		2U 12-bay: 780 x 379 x 588 mm 2U 24-bay: 780 x 338 x 588 mm 3U 16-bay: 780 x 423 x 588 mm 4U 24-bay: 780 x 465 x 588 mm				
Power Supply Unit	Power Supplies (Redundant and hot-swappable)				(80 PLUS Bronze)	
	AC Voltage (with PFC (auto-switching)	100VAC @ 8A to 100Vac @10A to 240VAC @ 5A				
		50-60 Hz				
	Frequency	Note: Power is also supplied in redundant mode, allowing full operation with half the resources.				

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Max. Logical Dri	ve Number	32				
Max. Logical Dri	ves Capacity	512 TB				
Configurable Stri	ipe Size	16KB, 32KB, 64KB, 128KB, 256KB, 512KB, or 1024KB per logical drive				
Configurable Wri	ites Policy	Write-Back or Write-Through per logical drive. This policy can be modified				
Max. Logical Volume Number		32				
Max. Logical Volume Size		512 TB				
Max. Partition Number (per logical volume/per system)		2048/1024				
Max. Partition Size		512 TB				
Max. Host LUN Mapping Number		4096				
Max. Reserved Tag Number Per Host-LUN Connection		Up to 256				
Max. iSCSI Initiators (per controller)		832				
RAID Options		RAID 0, RAID 1, RAID 3, RAID 5, RAID 6, RAID 10, RAID 30, RAID 50, RAID 60				
Protocol Support		FC, ISCSI, SAS				
Management		Web-based SANWatch management software Embedded RAIDWatch Terminal via RS-232C Telnet/SSH LCD keypad panel (DS 3000U)				
Availability and Reliability		 Redundant, hot-swappable hardware modules Device mapper support Trunk group support Cache Safe technology UPS 				
Notification		• Email • SNMP traps				
OS Support		Microsoft Windows Server 2019/2016/2012R2/2012/2008R2/2008, Windows 7 SP1, Windows 8.1, Microsoft Windows Hyper-V, Ret Hat Enterprise Linux, SUSE Linux Enterprise, Sun Solaris, Mac OS X, VMware, Citrix XenServer, OpenStack Cinder Note: For OS version support, please refer to the compatibility matrix				
DATA SER Self-encrypting D		Unique factory encryption secures data plus makes deletion simple and complete				
Thin Provisioning	(default included)	Just-in-time" capacity allocation optimizes storage utilization and eliminates allocated but unused storage space				
	Snapshot	Snapshot images per source partition Standard License: 64; Advanced License: 256				
	энарыны	Snapshot images per logical volumne Standard License: 128; Advanced License: 4096				
Local Replication		Replication pairs per source volume Standard License: 4; Advanced License: 8				
	Volume Copy/ Mirror	Replication pairs per system Standard License: 16; Advanced License: 256				
		Note: Standard license is included by default and advanced is an optional license				
		Replication pairs per source volume: 8				
Remote Replication (optional)		Replication pairs per system: 64				
		Note: 1. The maximum number of replication pair per source volume is up to 8, regardless of remote asynchronous, remote synchronous, local volume pairs 2. 16Gb/s FC x 4, 32Gb/s FC x 2 and 32Gb/s FC x 4 host boards do not support Remote Replication				
Automated Storage Tiering (optional)		2 or 4 storage tiers based on drive types				
		SSD supports				
		Automated data migration with scheduling options				
SSD Cache (optional)		Accelerating data access for random read-intensive environments, such as OLTP				
		Supports up to four SSDs per controller				
		Recommended DIMM capacity for SSD Cache pool:				
		DRAM: 2GB Max SSD Cache Pool Size: 150GB				
		DRAM: 4GB Max SSD Cache Pool Size: 400GB				
		DRAM: 8GB Max SSD Cache Pool Size: 800GB				
		DRAM: 16GB Max SSD Cache Pool Size: 1,600GB				
		DRAM: 32GB Max SSD Cache Pool Size: 3,200GB				
		DRAM: 64GB and up Max SSD Cache Pool Size: 6,400GB				
WARRAN	TY AND SER					
	Standard Service	3-year limited hardware warranty and 8x5 phone, web, and email support (Batteries are covered under warranty for 2 years)				
Service and Support	Upgrade or Extension Options	Warranty extension: Can extended standard service up to 5 years The following Service can be upgraded to 5 years • Upgrade: Replacement part dispatch on the next business day • Advanced service: 24x7 phone, web, and email support + onsite diagnostics on the next business day • Rramium convice: 24x7 phone, web, and email support + onsite diagnostics in 4 hours.				
		Premium service: 24x7 phone, web, and email support + onsite diagnostics in 4 hours Note: Standard license is included by default and advanced is an optional license				
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