

Highlight

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.

EFFICIENCY

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

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 16bay, 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.

2012-bay	Part	Product Series		DS 1000 Gen2	DS 2000 Gen2	DS 3000U	DS 4000 Gen2	DS 4000U	
Description	Description		01140 have		D0 0010 00/D00	DO 004 0011/DU0			
Town Finisher Super-Controller Single or Dust-Industry Dis 201682/RBC Dis 201682	Town Findship 15 - Lay 15 -			·	<u> </u>		- DC 4004 000 /D00	DC 4004BHCB/BHCB	
10 10 10 10 10 10 10 10	10 10 10 10 10 10 10 10		20 24-Ddy		DS 2024 426/N266	DS 302430CB/NUCB	DS 4024 320B/N20B	DS 4024 SUCB/ NUCB	
Note	Note	Form Factor	3U 16-bay		DS 2016 G2/R2C	DS 3016 GU/RUC	DS 4016 G2/R2C	DS 4016 SUC/RUC	
Controller	Controlles		4U 24-bay	DS 1024 R2C/R2L				-	
Sangle or Dual-retundant Sangle or Dual-retundant Sangle or Dual-retundant Sangle uppreciation	Single or Dual-redundant						lant controller C: Super capac	itor L: BBU	
Salie Sali	Suppress	Controller						Single upgradable to	
Expandable up to 1968 Expa	Expandable up to 1668 Expandable up to 1668 Expandable up to 1728 2.5° SAS or SATS SD 2.5° SAS or SATS ST SATS SD 2.5° SAS or SATS ST SAS OR SAT	Cache Backup Technio	ques	Flash module or Super capacitor+Fla		Flash module			
Supported Dives Supported	Supported Divises	Cache Memory						Default DDR4 4GB Expandable up to 128GB	
Max. SD Cache Pool 2TB 2TB 4TB 4TB 4TB 4TB 4TB ATB ATB ATB ATB ATB ATB ATB ATB ATB A	Max. SDG Cache Pool 2TB 2TB 4TB 4TB 4TB 4TB 4TB 4TB 00hooard SIG Eache Pool 2 B 2 C 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Supported Drives		2.5" SAS or SATA SSD 2.5" 12Gb/s SAS 10,000 or 15,000 RPM HDD 3.5" 12Gb/s SAS 7,200 RPM HDD					
Max. SSD Cache Pool	Max. SSD Cache Pool			Note: For the latest compatib	ility details, refer to our offici		patibility Matrix.		
Disposard SAS Expansion Port (RJ-45) 8 8 8 8 8 4	Onboard SAS Expansion Port 2 2 2 2 4 Onboard SRD Forts (RJ-45) 8 8 8 8 4 4 4 Max. Host Board Slots 2 2 2 4 4 4 4 Host Board Options Fire In Early 18 (PJ + 15) x 2 (1006) (RJ + 15) x 2 (<u> </u>	2TB	2TB		/TR	//TR	
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Package Dimensions (W x H x D) Power Supplies (Redundant and hot-swappable) Power Supply Unit Power Supplies (Redundant and hot-swappable) Note: Power is also supplied in redundant mode, allowing full operation with half the resources.	Package Dimensions (W x H x D) Power Supplies (Redundant and hot-swappable) Power Supply Unit AC Voltage (with PFC (auto-switching)) Frequency Note: Power is also supplied in redundant mode, allowing full operation with half the resources. Package Dimensions 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 4U 24-bay: 780 x 465 x 588 mm 4U 24-bay: 780 x 465 x 588 mm 4U 24-bay: 780 x 423 x 588 mm 4U 24-bay: 780 x 465 x 588 mm 4U 24-bay:	Dimensions (without chassis ears and protrusions)		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 500 mm					
Power Supply Unit Redundant and hot-swappable 460W x 2 (80 PLUS Bronze) (80 PLUS Bronze)	Power Supply Unit Redundant and hot-swappable 460W x 2 (80 PLUS Bronze) (80 PLUS Bronze)			2U 24-bay: 780 x 338 x 588 mm 3U 16-bay: 780 x 423 x 588 mm					
Power Supply Unit (with PFČ (auto-switching)) Frequency (with PFČ (auto-switching)) 50-60 Hz Note: Power is also supplied in redundant mode, allowing full operation with half the resources.	Power Supply Unit (with PFC (auto-switching)) 100vac @10A to 240vac @5A								
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	Safety Standard • Electromagnetic Compatibility : CE, BSMI, FCC		Frequency						
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SOFTWARE SPECIFICATIONS			
Max. Logical Drive Number	32		
Max. Logical Drives Capacity	512TB		
Configurable Stripe Size	16KB, 32KB, 64KB, 128KB, 256KB, 512KB, or 1024KB per logical drive		
Configurable Writes Policy	Write-Back or Write-Through per logical drive. This policy can be modified		
Max. Logical Volume Number	32		
Max. Logical Volume Size	512TB		
Max. Partition Number (per logical volume/per system)	2048/1024		
Max. Partition Size	512TB		
Max. Host LUN Mapping Number	4096		
Max. Reserved Tag Number Per Host-LUN Connection	Up to 256		
Max. iSCSI Sessions (per controller)	416		
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/SSHLCD keypad panel (DS 3000U)	
Availability and Reliability	Redundant, hot-swappable hardware modules Trunk group support	Device mapper supportCache Safe technology	
Notification	• Email	SNMP traps	
OS Support		2/2008R2/2008, Windows 7 SP1, Windows 8.1, Microsoft Windows Hyper-V, Ret Hat s, Mac OS X, VMware, Citrix XenServer, OpenStack Cinder	
	Note: For OS version support, please refer to the co	mpatibility matrix	

DATA SERVI	CE				
Self-encrypting Drives	3	Unique factory encryption secures data plus makes deletion simple and complete			
Thin Provisioning (Blo	ck-Level) (default included)	"Just-in-time" capacity allocation optimizes storage utilization and eliminates allocated but unused storage space			
	Snapshot	Snapshot images per source volume	Standard License: 64 / Advanced License: 256		
		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		Replication pairs per system: 64			
(Block level)(optional)		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. 4 x 16Gb FC and 2/4 x 32Gb FC host boards do not support Remote Replication.			
		2 or 4 storage tiers based on drive types			
Automated Storage Ti	ering (optional)	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:			
SSD Gacrie(Optional)		DRAM: 8GB	Max SSD Cache Pool Size: 1,000GB		
		DRAM: 16GB	Max SSD Cache Pool Size: 2,000GB		
		DRAM: 32GB and up	Max SSD Cache Pool Size: 4,000GB		

WARRANTY	AND SERVICE		
	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 • Premium service: 24x7 phone, web, and email support + onsite diagnostics in 4 hours	
		Note: Options may vary by region. For more details, please contact our sales representatives.	
	Technical Support	Get information on system installation and maintenance, download technical documents and software, or issue a support ticket	
	Product Services	Register products, download firmware, apply for licensing services, create product repair tickets, or check product repair status	

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