

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.

PHYSICAL S	PECIFICATIONS						
Product Series		DS 1000 Gen2	DS 2000 Gen2	DS 3000	DS 4000 Gen2	DS 4000	
Form Factor	2U 12-bay	DS 1012 G2 DS 1012 R2C	DS 2012 G2/R2C	DS 3012 GU/RUC	-	-	
	2U 24-bay	DS 1024 G2B DS 1024 R2CB	DS 2024 G2B/R2CB	DS 3024 SUCB/RUCB	DS 4024 S2CB/R2CB	DS 4024 SUCB/RUCI	
	3U 16-bay	DS 1016 G2 DS 1016 R2C DS 1016 G2NH	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	DS 2024 G2/R2C	DS 3024 SUC/RUC	DS 4024 82C/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					
ontroller		Single or Dual-redundant		Single of Dilai-regulngant of		Dual-redundant or Single upgradable to redundant	
ache Backup Techni	iques	Super capacitor+ Flash module or BBU+Flash module		Super capacitor+Flash module			
ache Memory (per s	system)	Default DDR3 4GB Expandable up to 64GB		Default DDR4 8GB Expandable up to 128GB			
Supported Drives		2.5" SAS SSD 2.5" 12Gb/s SAS 10,000 or 15,000 RPM HDD 3.5" 12Gb/s NL-SAS 7,200 RPM HDD 2.5" SATA SSD, 3.5" 6Gb/s SATA 7,200 RPM HDD (G/S model only)					
		Note: For the latest compatibility details, refer to our official website for the latest Compatibility Matrix.					
Max. Drive Number				448			
ax. SSD Cache Poo	I	2TB	2TB	4TB	4TB	4TB	
nboard SAS Expans	ion Port	2	2	2	2	4	
board 1GbE Ports	(RJ-45)	8	8	8	8	4	
ax. Host Board Slot	S	2	2	4	4	4	
Host Board Options		16Gb/s FC x 4 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		16Gb/s FC x 4 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.					
lax. 16Gb/s FC Ports	S	8	8	16	16	16	
ax. 32Gb/s FC Ports	S	4	4	16	16	16	
ax. 1 GbE Ports		16	16	24	24	20	
ax. 10GbE Ports (R	J-45)	4	4	8	8	8	
ax. 10GbE Ports (S	FP+)	4	4	8	8	8	
Max. 25GbE Ports (SFP28)		4	4	8	8	8	
ax. 40GbE Ports (C	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 500 mm 4U 24-bay: 449 x 174.4 x 500 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)	460W x 2 (80 PLUS Bronze)			530W x 2 (80 PLUS Bronze)		
	AC Voltage (with PFC (auto-switching))	100Vac @10A to 240Vac @5A					
	Frequency	50-60 Hz Note: Power is also supplied in redundant mode, allowing full operation with half the resources.					
afety Standard		Electromagnetic Compatibility : CE, BSMI, FCC					
andly olanidalu			Safety : UL, BSMI, CI	3			

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 Size	512TB			
Max. Logical Volume Number	32			
Max. Partition Size	512TB			
Max. Partition Number (per logical volume/per system)	2048/1024			
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 5/5F, RAID 6/6F, 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 LCD keypad panel (DS 3000)			
Availability and Reliability	 Redundant, hot-swappable hardware modules Trunk group support Device mapper support Cache Safe technology 			
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, Red 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 SE	RVICE				
Self-encrypting Drives Default		Unique factory encryption secures data plus makes deletion simple and complete			
Thin Provisioning Default		"Just-in-time" capacity allocation optimizes storage utilization and eliminates allocated but unused storage space			
Local Replication	Snapshot	Default	Snapshot images per source volume: 64	Snapshot images per logical volumne: 128	
		Optional	Snapshot images per source volume: 256	Snapshot images per logical volumne: 4096	
	Volume Copy/Mirror	Default	Replication pairs per source volume: 4	Replication pairs per system: 16	
		Optional	Replication pairs per source volume: 8	Replication pairs per system: 256	
Remote Replication			Replication pairs per source volume: 8	Replication pairs per system: 64	
		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.		
Automated Storage Tiering		Optional	2 or 4 storage tiers based on drive types		
SSD Cache			Accelerating data access for random read-intensive environments, such as OLTP		
			Supports up to four SSDs per controller		
		Ontions	Recommended DIMM capacity for SSD Cache pool:		
		Optiona	DRAM: 8GB	Max SSD Cache Pool Size: 1TB	
			DRAM: 16GB	Max SSD Cache Pool Size: 2TB	
			DRAM: 32GB and up	Max SSD Cache Pool Size: 4TB	

WARRANTY AND SERVICE						
Service and Support	Standard Service	3-year limited hardware warranty and 8x5 phone, web, and email support (batteries are covered under warranty for 2 years)				
	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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