

EonStor DS 3000 Series

High speed flexible storage delivers robust reliability and management

Turbo charged storage – DS 3000T Gen2

- Up to 1.3M IOPS and 5,500 MBps throughput
- High IOPS solutions ideal for database and VDI applications, while bandwidth enhances media editing and surveying jobs

SSD optimized

- SSD Cache and automated storage tiering
- Small form factor models for all-SSD arrays
- SSD drive wear indication

Data services

- Optional secure remote replication backs up data to offsite locations to ensure disaster recovery readiness
- Snapshot, volume copy/mirror, thin provisioning and more
- Compatible with self-encrypting drives (SED)
- Intelligent Drive Recovery (IDR) technology, including RAID 6, smart media scan and detect-clone-replace

High availability

- Dual controllers and redundant power supplies
- Fast failover performance and assured high data availability

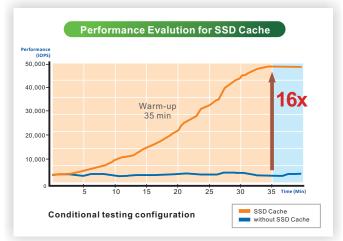
Multiple host options

- Choose from 8Gb/s or 16Gb/s Fibre Channel, 1Gb/s or 10Gb/s iSCSI or 6Gb/s or 12Gb/s SAS based on your needs and budget
- Hybrid host interfaces for diverse environments on one system lead to greater utility
- Optional onboard iSCSI ports can be added to any host interface type Modular components mean easy maintenance and future-proof upgrades

Fully featured storage systems for SAN and DAS environments, offered in diverse form factors from compact 2U to high density 4U. Make the most of high availability with dual controller models, and grow with powerful yet simple to deploy SMB and enterprise services. Fast performance, modular components, strong data integrity, friendly management, and extensive software bundles make these truly total solutions.

Ready for an SSD future

EonStor DS 3000 systems are designed for all-SSD storage and support large high speed SSD cache pools. SSD Cache speeds up read performance for priority data, and boosts cache pool capacities up to 3.2TB. As many as four SSDs per controller can be used, including SATA disks. In addition to faster read speeds, SSD Cache reduces performance impact compared to spin-drive caches with rapid warm up and less drive wear. Configuring and managing SSD Cache pooling is easy via the intuitive SANWatch UI.



* SSD Cache speeds up read performance by up to 16 times for frequently-accessed data stored in the cache pool.

* Actual performance gains can vary depending on customer applications.

Automated storage tiering optimizes storage performance and increases ROI by leveraging high speed SSD for expedited access to hot data while using affordable drives such as NL-SAS for archiving purposes.

To protect SSDs and the vital data they store, EonStor DS 3000 systems offer SSD wear level indication that provides users with accurate real time SSD health info.

DS 3000 Series



Intuitive system messages

 Tiered and easily actionable system notifications keep you informed and in control

User friendly management

- Exclusive SANWatch 3.0 browser-based interface makes management accessible from a single front end
- Proprietary RAIDWatch 3.0 provides RAID protection and powerful best practice facilities
- · Support for intricate CLI editing

Energy saving design

- Efficient 80 PLUS power supplies
- Intelligent drive spin-down reduces energy draw by up to 60% while extending drive lifespan

High speed performance and flexible scalability

Discover new standards of storage performance with up to 1.3M IOPS and 5,500 MB/s throughput. EonStor DS 3000 systems are excellent platforms for database and VDI applications thanks to ample computing power, and their massive bandwidth serves to enhance media editing and surveying jobs, freeing you from bottlenecks. When looking to expand storage, up to an extra 360 drives can be connected easily using Infortrend JB 2000 or JB 2000-1 enclosures.

Advanced backup data integrity and storage services

Every EonStor DS 3000 system arrives with a full suite of premium data services. Thin provisioning augments your storage utilization from an average 30% to 80% so you get more room on your disk drives. For on demand backups, 128-target snapshot is included (upgradable to 4096 targets), alongside 64 replication pair volume mirror/copy (upgradable to 256).Remote replication ensures prompt and secure disaster recovery to offsite backup locations.

Infortrend IDR technology detects and repairs faulty sectors on drives before they progress into serious media errors, so that disastrous failures are avoided before they can potentially take down an entire storage network.

Easy upgrade modular host interface

Based on your needs and budget, select from 8Gb/s or 16Gb/s Fibre Channel, 1Gb/s or 10Gb/s iSCSI, or 6Gb/s or 12Gb/s SAS host interfaces. The wide choice offers great performance in more applications, with hybrid host interfaces available to deliver support for diverse environments on one system, for example Fibre Channel/SAS and onboard iSCSI. Host interface modules can be easily swapped and upgraded, making EonStor DS 3000 systems very future-proof.

User friendly maintenance

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 close tabs on your data to ensure its integrity.

Effortless management with exclusive tools

Proprietary SANWatch 3.0 browser-based user interface gives you a consolidated and highly accessible storage management front end. It is complemented by RAIDWatch 3.0, another exclusive Infortrend utility that allows you to implement best practices to enhance RAID array performance. Systems also ship with extensive CLI and command editing to ensure you get full supervision and oversight capabilities.











High IOPS Solut	ions							
Model name	DS 3012RT DS 3012GT	DS 3016R DS 3016G		DS 3024RT DS 3024GT		DS 3024RTB DS 3024GTB		
Form factor	2U 12-bay LFF	3U 16-bay LFF		4U 24-bay LFF		2U-24bay SFF		
Storage controller	Single or dual-redundant							
Host connectivity (per controller)	2 x 16Gb FC ports 4 x 8Gb FC ports 2 x 10Gb iSCSI ports (SFP + or RJ-45) 4 x 1Gb iSCSI ports 2 x 6Gb SAS ports 2 x 12Gb SAS ports							
Onboard GbE ports (per controller)		4	x 1Gb iSCSI ports	s (Optional)				
Cache memory (per controller)			2GB, 4GB, 8GB					
Max drives (per system)	12	16		24		24		
Aax drives (via expansion enclosure)	312	316		324		360		
Expansion enclosure (JBOD)	JB 2012-1 JB 2048 JB 2060	JB 2016-1 JB 2048 JB 2060		JB 2016-1 JB 2048 JB 2060		JB 2024B JB 2048 JB 2060 JB 2012-1 JB 2016-1		
SAS expansion ports (per controller)			1 x 6Gb/s SAS 4	4x wide port				
Cache backup technologies ¹			BBU + Flash m	nodule				
Supported drives ²	• 2.5" 10	KRPM SAS HDD • 3.5"	15K RPM SAS HE 7200 RPM NL SA 7200 RPM SATA I	S HDD		• 2.5" SATA/SAS SSD • 2.5" 10K RPM SAS HDD • 2.5" 15K RPM SAS HDD		
		ro redundant 530W; Jency: 100-240VAC, 47-0	63Hz	Power supply: Three 405 Voltage and Frequency: 1 50-60Hz		Power supply: Two redundant 530W; Voltage and Frequency: 100-240VAC 47-63Hz		
Power & Cooling	Power consumption - DS 3012RT: 332 - DS 3012GT: 285 Heat dissipation(BTU/ho	Power consump - DS 3016RT: 41 - DS 3016GT: 41 ur): 1148 Heat dissipation	6 6	Power consumption - DS 3024RT: 573 - DS 3024GT: 504 Heat dissipation(BTU/ho	ur): 2426	Power consumption - DS 3024RTB: 308 - DS 3024GTB: 276 Heat dissipation(BTU/hour): 1186		
Green design	80 PLUS power supplies delivering more than 80% energy efficiency Intelligent multi-level drive spin-down							
RAID configurations	RAID level 0, 1(0+1), 3, 5, 6, 10, 30, 50, 60 Up to 32 logical drives and 64 partitions per logical volume Up to 2048 LUNs							
Regulatory 4	 Safety : UL, BSMI, CE Electromagnetic Com 	, EAC patibility: CE, BSMI, FCC	: KC					
	Local replication ³			s per system Standard li		cense: 64 / advanced license: 256 icense: 128 / advanced license: 4096 icense: 16 / advanced license: 32		
	Volume copy/mirror		Replication pairs per source volume Standard I		license: 4 / advanced license: 8 license: 64 / advanced license: 256			
	Thin provisioning "Just-in-time" capacity allocation optimizes storage utilization and elimina				ates allocated but unused storage spa			
	Self-encrypting drives Unique factory encryption secures data plus makes deletion simple and complete							
Data services	Remote replication ⁶	emote replication ⁶ Replication p			ns per source volume: 16 n pairs per source volume: 4 n pairs per system: 64			
	Automated storage tiering ⁶ Two (2) or four (4) storage tiers based on drive types SSD support Automated data migration with scheduling options							
	SSD Cache (optional license)	 Supports up to four S Recommended DIMN DRAM:2GB Max. S 	SDs per controlle	ntroller for SSD Cache po Size:150GB DF	ol: AM:4GB	s OLTP Max. SSD Cache Pool Size: 400GB Max. SSD Cache Pool Size: 1.600GI		
Availability and reliability	CacheSafe technology:		support ring power outage	es by flushing data into fla				
Management		t suite, embedded RAIDW			CD keypad	panel		
Notification	Email, fax, LAN broadca	ast, SNMP traps, SMS						
OS support ²	Microsoft Windows Server 2008 / 2008 R2 / 2012 / 2012 R2, Microsoft Windows Hyper-V, Red Hat Enterprise Linux, SUSE Linux Enterprise, Sun Solaris, Mac OS X, HP-UX, IBM AIX, VMware, Citrix XenServer, OpenStack Cinder							
	Standard service	(Batteries ar	e covered under v	vare warranty and 8x5 ph warranty for 2 years)				
Service and Support 5	Upgrade/extension options Replacement part dispatch on the next business day (up to 5 years) Advanced service: 24x7 phone, web, and email support + onsite diagnostics on the next business of (up to 5 years) Premium service: 24x7 phone, web, and email support + onsite diagnostics in 4 hours (up to 5 years) Premium service: 24x7 phone, web, and email support + onsite diagnostics in 4 hours (up to 5 years) Extended standard service up to 5 years							
I. EonStor DS 3000G models: BBU + flash r 2. For the latest compatibility details, refer to		led by default.	4. Check v	vith your local sales represen		plete details. 9. Extended service terms may vary by regi		

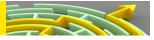
For the latest compatibility details, refer to our official website for the latest Compatibility Matrix.
 Standard functions come default with EonStor DS systems. Advanced functions are available with optional

3. Standard functions come default with EonStor DS systems. Advanced functions are available with optional licenses.

mpatibility Matrix.
 5. All EonStor DS systems ship with standard service. Extended service terms may vary by region.

 is are available with optional
 6. Remote replication and automated storage tiering functions are available with optional license.

High IOPS Solutions



Model name	DS 3048RT DS 3048GT			DS 3060RT DS 3060GT		
Form factor	4U 48-bay LFF			4U 60-bay LFF		
Storage controller	40 40-bay Lin	Sir	ngle or dual-redundar			
Host connectivity (per controller)		2 > 4 > 2 > 4 > 2 >	(16Gb FC ports (8Gb FC ports (10Gb iSCSI ports) (1Gb iSCSI ports) (6Gb SAS ports) (12Gb SAS ports)			
Onboard GbE ports (per controller)		2 >	<1Gb iSCSI ports			
Cache memory (per controller)		20	B, 4GB, 8GB or 16GE	}		
Max drives (per system)	48			60		
Max drives (via expansion enclosure)	336			360		
Expansion enclosure (JBOD)	JB 2048			JB 2060		
SAS expansion ports (per controller)		1>	6Gb/s SAS 4x wide p			
Cache backup technologies ¹			BU + Flash module			
Supported drives ²	• 2.5" • 2.5"	SAS SSD SATA SSD (DS 30486 10K RPM SAS HDD	• 2.5" 15K RPM SAS HDD • 3.5" 7200 RPM NL SAS HDD		NL SAS HDD SATA HDD (DS 3048GT/3060GT only)	
Power & Cooling	Power supply: Three 53 Voltage and Frequency Power consumption - DS 3048RT: 775 - DS 3048GT: 645 Heat dissipation (BTU/	: 100-240VAC, 47-63	Hz	Power supply: Two redundant 1600W Voltage and Frequency: 200-240VAC, 47-63Hz Power consumption - DS 3060RT: 977 - DS 3060RT: 891 Heat dissipation (BTU/hour): 2590		
Green design	80 PLUS power supplie Intelligent multi-level d		n 80% energy efficier	су		
RAID configurations	RAID level 0, 1(0+1), Up to 32 logical drives Up to 2048 LUNs		logical volume			
Regulatory ⁴	 Safety : UL, BSMI, C Electromagnetic Con 		, FCC, KC			
	Local replication ³	Snapshot Volume copy/mirror	Snapshot images p Snapshot images p Source volumes pe Replication pairs pe Replication pairs pe	er system r system er source volume er system	Standard license: 64 / advanced license: 256 Standard license: 128 / advanced license: 4090 Standard license: 16 / Advanced License: 32 Standard license: 4 / advanced license: 8 Standard license: 64 / advanced license: 256	
	Thin provisioning		,	0	n and eliminates allocated but unused storage space	
Data services	Self-encrypting drives Remote Replication ⁶	Unique factory end	ryption secures data Replication per sour Replication pairs pe Replication pairs pe	rce volume: 16 r source volume: 4	simple and complete	
	Two (2) or four (4 Automated Storage Tiering ⁶ SSD supports		Two (2) or four (4) s SSD supports	storage tiers based on drive types igration with scheduling options		
	SSD Cache		SSDs per controller	ller for SSD Cache po :150GB D	,	
Availability and reliability	Redundant, hot-swapp Multi-pathing support CacheSafe technology Port trunking / link agg	(EonPath), device ma	pper support a during power outage	es by flushing data in ame	to flash memory	
Management	SANWatch manageme				SH, LCD keypad panel	
Notification	Email, fax, LAN broadd	ast, SNMP traps, SMS	6			
OS support ²					er-V, Red Hat Enterprise XenServer, OpenStack Cinder	
	Standard service		ed hardware/software re covered under war		hone, web, and email support	
Service and Support $^{\mathrm{5}}$	Upgrade/extension optic	Advanced so ons Premium se	(up to 5 years	veb, and email suppò) eb, and email suppor	up to 5 years) ort + onsite diagnostics on the next business day rt + onsite diagnostics in 4 hours (up to 5 years)	

For the latest compatibility details, refer to our official website for the latest Compatibility Matrix.
 Standard functions come default with EonStor DS systems. Advanced functions are available with optional licenses.

All EonStor DS systems ship with standard service. Extended service terms may vary by region.
 All constor DS systems ship with standard service. Extended service terms may vary by region.
 Remoter replication and automated storage tiering functions are available with optional license.

Model name	DS 3012R DS 3012G	DS 30 ⁻ DS 30 ⁻		DS 3024R DS 3024G		DS 3024RB DS 3024GB		
Form factor	2U 12-bay LFF	3U 16-bay	/ LFF	4U 24-bay LFF		2U 24-bay SFF		
Storage controller			Single or dual-redu	ndant				
Host connectivity (per controller)	2 x 16Gb FC ports 4 x 8Gb FC ports 2 x 10Gb iSCSI ports (SFP + or RJ-45) 4 x 1Gb iSCSI ports 2 x 6Gb SAS ports 2 x 12Gb SAS ports							
Onboard GbE ports (per controller)			4 x 1Gb iSCSI ports	(Optional)				
Cache memory (per controller)			2GB, 4GB, 8GB or 1					
Max drives (per system)	12	16		24		24		
Nax drives (via expansion enclosure)	312 JB 2012-1	316 JB 2016- ⁻		324 JB 2016-1		360 JB 2024B		
Expansion enclosure (JBOD)	JB 2048 JB 2060	JB 2048 JB 2060		JB 2048 JB 2060		JB 20248 JB 2012-1 JB 2048 JB 2016-1 JB 2060 JB 2016-1		
SAS expansion ports (per controller)			1 x 6Gb/s SAS 4x wi	de port				
Cache backup technologies ¹			BBU + Flash mod					
Supported drives ²	• 2.5" 10	TA/SAS SSD • 3.5 K RPM SAS HDD • 3.5 K RPM SAS HDD • 3.5				• 2.5" SATA/SAS SSD • 2.5" 10K RPM SAS HDD • 2.5" 15K RPM SAS HDD		
Power & Cooling		o redundant 530W; ency: 100-240VAC, 4	7-63Hz	Power supply: Thre Voltage and Freque 50-60Hz		Power supply: Two redundant 53 , Voltage and Frequency: 100-240 47-63Hz		
	Power consumption - DS 3012R: 332 - DS 3012G: 285 Heat dissipation(BTU/	Power con - DS 3016 - DS 3016 iour): 1148 Heat dissir	R: 416 G: 416	Power consumptio - DS 3024R: 573 - DS 3024G: 504 Heat dissipation(B		Power consumption - DS 3024RB: 308 - DS 3024GB: 276 Heat dissipation (BTU/hour): 118		
Green design	80 PLUS power supplies delivering more than 80% energy efficiency Intelligent multi-level drive spin-down							
RAID configurations	RAID level 0, 1 (0 + 1), 3, 5, 6, 10, 30, 50, 60 Up to 32 logical drives and 64 partitions per logical volume Up to 2048 LUNs							
Regulatory ⁴	 Safety : UL, BSMI Electromagnetic C 	CB, EAC ompatibility : CE, BSI	ЛІ, FCC, KC					
		Snapshot	Snapshot images p Snapshot images p			se: 64 / advanced license: 256 ise: 128 / advanced license: 409		
	Local replication [°]	Volume copy/mirror	Source volumes per Replication pairs per Replication pairs per	er source volume	Standard licer	ise: 16 / advanced license: 32 ise: 4 / advanced license: 8 ise: 64 / advanced license: 256		
	Thin provisioning "Just-in-time" capacity allocation optimizes storage utilization and eliminates allocated but unused storage spa							
	Self-encrypting drives Unique factory encryption secures data plus makes deletion simple and complete							
Data services	Remote replication ⁶		Replications per so Replication pairs pe Replication pairs pe	er source volume: 4				
	Automated storage	iering ⁶	SSD support	storage tiers based of gration with scheduling				
	SSD Cache (optional license)	 Supports up to fou Recommended DII DRAM:2GB Max 	access for random rea r SSDs per controller MM capacity per contr <. SSD Cache Pool Siz <. SSD Cache Pool Siz	roller for SSD Cache e:150GB	pool: DRAM:4GB M)LTP ax. SSD Cache Pool Size: 400GF ax. SSD Cache Pool Size: 1,600		
Availability and reliability	Redundant, hot-swappable hardware modules Multi-pathing support (EonPath), device mapper support CacheSafe technology: protects cached data during power outages by flushing data into flash memory Port trunking / link aggregation (IEEE 802.3ad), failover, jumbo frame							
Management		nent suite, embedded			SSH, LCD keypa	d panel		
Notification	Email, fax, LAN broa	dcast, SNMP traps, SI	MS					
OS support ²		Server 2008 / 2008 Rá hterprise, Sun Solaris,						
Service and Support ⁵	Standard service		ted hardware/softwar are covered under war		hone, web, and	email support		
	Upgrade/extension o	Advanced Premium s	(up to 5 year	web, and email supp s) web, and email supp	oort + onsite dia	gnostics on the next business da gnostics in 4 hours (up to 5 years		

Technical Specifications



Model name	DS 3048R DS 3048G			DS 3060R DS 3060G		
Form factor	4U 48-bay LFF			4U 60-bay LFF		
Storage controller	1	S	Single or dual-redundar	t		
Host connectivity (per controller)	2 x 16Gb FC ports 4 x 8Gb FC ports 2 x 10Gb ISCSI ports (SFP + or RJ-45) 4 x 1Gb ISCSI ports 2 x 6Gb SAS ports 2 x 12Gb SAS ports					
Onboard GbE ports (per controller)		:	2 x 1Gb iSCSI ports			
Cache memory (per controller)		2	2GB, 4GB, 8GB or 16GE			
Max drives (per system)	48					
Max drives (via expansion enclosure)	336					
Expansion enclosure (JBOD)	JB 2048			JB 2060		
SAS expansion ports (per controller)		1	1 x 6Gb/s SAS 4x wide p	ort		
Cache backup technologies ¹			BBU + Flash module			
Supported drives ²	• 2 • 2	.5" SAS SSD .5" SATA SSD (DS 304 .5" 10K RPM SAS HDD	8G/3060G only)	2.5" 15K RPM SAS H 3.5" 7200 RPM NL S 3.5" 7200 RPM SATA	AS HDD A HDD (DS 3048G	• /
	Power supply: The Voltage and Frequ	ree 530W ency: 100-240VAC, 47	'-63Hz		wo redundant 160 Juency: 200-240V	
Power & Cooling	Power consumpti - DS 3048R: 775 - DS 3048G: 645 Heat dissipation(Power consump - DS 3060R: 977 - DS 3060G: 891 Heat dissipation	,	
Green design	80 PLUS power s	upplies delivering more evel drive spin-down	than 80% energy effici	ency		
RAID configurations	RAID level 0, 1(0-	+1), 3, 5, 6, 10, 30, 50, ives and 64 partitions				
Regulatory ⁴	 Safety : UL, BS Electromagnetic 	MI, CB, EAC c Compatibility : CE, BS	SMI, FCC, KC			
		Snapshot	Snapshot images p Snapshot images p			e: 64 / advanced license: 256 e: 128 / advanced license: 4(
	Local replication ³	Volume copy/mirro	Source volumes pe	r system er source volume	Standard license Standard license	e: 16 / advanced license: 32 e: 4 / advanced license: 8 e: 64 / advanced license: 256
	Thin provisioning	"Just-in-time" c	apacity allocation optin	nizes storage utilizatio	n and eliminates a	llocated but unused storage s
	Self-encrypting d	rives Unique factory	encryption secures da	ta plus makes deletio	n simple and comp	olete
Data services	Remote replicatio	n ⁶	Replications per so Replication pairs p Replication pairs p	er source volume: 4		
	Automated stora	ge tiering ⁶	SSD support	storage tiers based or gration with schedulir		
	SSD Cache (optional license)	 Supports up to for Recommended E DRAM:2GB M 	a access for random re: our SSDs per controller DIMM capacity per cont lax. SSD Cache Pool Siz lax. SSD Cache Pool Siz	roller for SSD Cache p ce:150GB []	ool:)RAM:4GB Ma>	P K. SSD Cache Pool Size: 4006 K. SSD Cache Pool Size: 1,60
Availability and reliability	Redundant, hot-swappable hardware modules Multi-pathing support (EonPath), device mapper support CacheSafe technology: protects cached data during power outages by flushing data into flash memory Port trunking / link aggregation (IEEE 802.3ad), failover, jumbo frame					
Management			d RAIDWatch, terminal		SH, LCD keypad p	panel
Notification	Email, fax, LAN bi	oadcast, SNMP traps,	SMS			
OS support ²			R2 / 2012 / 2012 R2, M s, Mac OS X, HP-UX, IB			
	Standard Service		nited hardware/software are covered under war		one, web, and em	ail support
Service and Support 5	Upgrade/extension	Replacement part dispatch on the next business day (up to 5 years) Advanced service: 24x7 phone, web, and email support + onsite diagnostics on the next business day (up to 5 years) Premium service: 24x7 phone, web, and email support + onsite diagnostics in 4 hours (up to 5 years) Extended standard service up to 5 years				
I. EonStor DS 3000G models: BBU + flash m Z. For the latest compatibility details, refer to c S. Standard functions come default with EonS optional licenses. gn and specification declared are subject to c	our official website for the tor DS systems. Advanced	latest Compatibility Matrix. functions are available wit	5. All EonSto 6. Remote re	plication and automated	andard service. Exte storage tiering function	nded service terms may vary by r ons are available with optional lice
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