

High speed flexible storage delivers robust reliability and management

Turbo charged storage – DS 3000U

- Up to 1M IOPS(All cache hit) and 450K IOPS(End to end) and 6,500 MBps read 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

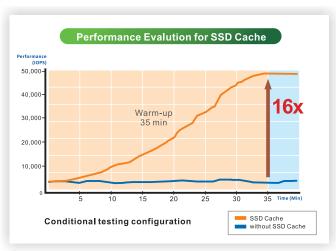
Multiple host options

- Choose from 8Gb/s or 16Gb/s Fibre Channel, 1Gb/s, 10Gb/s or 40Gb Ethernet or 6Gb/s or 12Gb/s SAS or 56Gb/s InfiniBand 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 6.4TB. 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



 Converged host board with 4 connectivity options to choose from (16Gb/s FC, 8Gb/s FC, 10Gb/s FCoE and 10Gb/s iSCSI SFP+)

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 450K IOPS and 6,500 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 444 drives can be connected easily using Infortrend JB 2000 or JB 2000-1 enclosures for DS 3000/DS 3000T, or JB 3000 enclosures for DS 3000U.

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, 10Gb/s or 40Gb/s Ethernet or 6Gb/s or 12Gb/s SAS, 56Gb/s InfiniBand 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 Solutions



1119111111111							
	DS 3012RT	DS 3016RT	DS 3024RT	DS	3024RTB		
Model name	DS 3012GT	DS 3016GT	DS 3024GT		3024GTB		
Form factor	2U 12-bay LFF	3U 16-bay LFF	4U 24-bay LFF	2U-2	4bay SFF		
Storage controller		S	ingle or dual-redundant				
		2 x 16Gb FC pc					
Host connectivity (per controller)			l ports (RJ-45) 2 x 12Gb SAS por	ts			
Onboord ChE norte (nor controller)			CSI ports (SFP+) 2 x 40Gb iSCSI po	JI IS			
Onboard GbE ports (per controller)			1Gb iSCSI ports (Optional)				
Cache memory (per controller)	10		2GB, 4GB, 8GB or 16GB	24			
Max drives (per system)							
Max drives (via expansion enclosure)		312 316 324					
Expansion enclosure (JBOD)	JB 2048 JB 2060				024B 048 JB 2012-1 060 JB 2016-1		
SAS expansion ports (per controller)			1 x 6Gb/s SAS 4x wide port				
Cache backup technologies ¹			BBU + Flash module				
Supported drives ²	• 2.5" SATA/SAS SSD • 3.5" 15K RPM SAS HDD • 2.5" SATA/SAS SSD • 2.5" 10K RPM SAS HDD • 3.5" 7200 RPM NL SAS HDD • 2.5" 10K RPM SAS HDD • 2.5" 15K RPM SAS HDD • 3.5" 7200 RPM SATA HDD • 2.5" 15K RPM SAS HDD						
Power & Cooling	Power supply: Tw	vo redundant 530W; uency: 100-240VAC, 50-60	Power supply: Three red	undant 530W; Powe	er supply: Two redundant 530W; ge and Frequency: 100-240VAC,		
	Power consumption - DS 3012RT: 332W - DS 3012GT: 285W Heat dissipation:1148BT	Power consumption - DS 3016RT: 416\ - DS 3016GT: 416\ U/hour Heat dissipation: 1	N - DS 3024RT: 573W N - DS 3024GT: 504W	- DS (r consumption 3024RTB: 308W 3024GTB: 276W dissipatio: 1186BTU/hour		
Green design	Heat dissipation:1148BTU/hour Heat dissipation: 1186BTU/hour Heat dissipation: 2426BTU/hour Heat dissipatio: 1186BTU/hour 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, CB, EAC Electromagnetic Compatibility: CE, BSMI, FCC, KC						
			Snapshot images per source volume		e: 64 / advanced license: 256		
	Local replication ³	Local replication ³ Snapshot images per system Source volumes per system Replication pairs per source volume Replication pairs per system		Standard license: 128 / advanced license: 4096 Standard license: 16 / advanced license: 32 Standard license: 4 / advanced license: 8 Standard license: 64 / advanced license: 256			
	Thin provisioning "Just-in-time" capacity allocation optimizes storage utilization and eliminates allocated but unused storage space						
	Self-encrypting drives Unique factory encryption secures data plus makes deletion simple and complete						
Data services	Remote replication ⁶	R	Replications per source volume: 16		1010		
	nemote replication		Replication pairs per system: 64	•			
	Automated storage tieri	ng ⁶ S	wo (2) or four (4) storage tiers based SD support utomated data migration with schedu	,,			
		Accelerating data acce	ss for random read-intensive environ		Р		
	SSD Cache (optional license)	DRAM:2GB Max. SS	apacity per controller for SSD Cache D Cache Pool Size:150GB	DRAM:4GB Max	. SSD Cache Pool Size: 400GB . SSD Cache Pool Size: 1,600GB		
Availability and reliability	(optional license) Redundant, hot-swapp; Multi-pathing support (CacheSafe technology:	Recommended DIMM of DRAM:2GB Max. SS DRAM:8GB Max. SS able hardware modules EonPath), device mapper si	apacity per controller for SSD Cache D Cache Pool Size: 150GB D Cache Pool Size: 800GB upport g power outages by flushing data into	DRAM:4GB Max DRAM:16GB Max			
Availability and reliability Management	(optional license) Redundant, hot-swappa Multi-pathing support (CacheSafe technology: Port trunking / link aggr SANWatch managemen	Recommended DIMM of DRAM:2GB Max. SS DRAM:8GB Max. SS able hardware modules EonPath), device mapper si protects cached data durin regation (IEEE 802.3ad), fait t suite, embedded RAIDWat	apacity per controller for SSD Cache D Cache Pool Size: 150GB D Cache Pool Size: 800GB upport g power outages by flushing data into	DRAM:4GB Max DRAM:16GB Max of flash memory	. SSD Cache Pool Size: 1,600GB		
	(optional license) Redundant, hot-swapp: Multi-pathing support (CacheSafe technology: Port trunking / link aggi	Recommended DIMM of DRAM:2GB Max. SS DRAM:8GB Max. SS able hardware modules EonPath), device mapper si protects cached data durin regation (IEEE 802.3ad), fait t suite, embedded RAIDWat	apacity per controller for SSD Cache D Cache Pool Size: 150GB D Cache Pool Size: 800GB upport g power outages by flushing data into lover, jumbo frame	DRAM:4GB Max DRAM:16GB Max of flash memory	. SSD Cache Pool Size: 1,600GB		
Management	Redundant, hot-swappa Multi-pathing support (CacheSafe technology: Port trunking / link aggr SANWatch managemen Email, fax, LAN broadca	Recommended DIMM of DRAM:2GB Max. SS DRAM:8GB Max. SS able hardware modules EonPath), device mapper si protects cached data durin regation (IEEE 802.3ad), fai t suite, embedded RAIDWat ast, SNMP traps, SMS ver 2008 / 2008 R2 / 2012,	apacity per controller for SSD Cache D Cache Pool Size: 150GB D Cache Pool Size: 800GB upport g power outages by flushing data into lover, jumbo frame	DRAM:4GB Max DRAM:16GB Max oflash memory H, LCD keypad pane -V, Red Hat Enterpri	. SSD Cache Pool Size: 1,600GB		
Management Notification	Redundant, hot-swappa Multi-pathing support (CacheSafe technology: Port trunking / link aggr SANWatch managemen Email, fax, LAN broadca	Recommended DIMM of DRAM:2GB Max. SS DRAM:8GB Max. SS able hardware modules EonPath), device mapper si protects cached data durin regation (IEEE 802.3ad), fai t suite, embedded RAIDWat ast, SNMP traps, SMS ver 2008 / 2008 R2 / 2012, rprise, Sun Solaris, Mac OS 3-year limited	apacity per controller for SSD Cache D Cache Pool Size: 150GB D Cache Pool Size: 800GB upport g power outages by flushing data into lover, jumbo frame ich, terminal via RS-232C, Telnet/SSI	DRAM:4GB Max DRAM:16GB Max oflash memory H, LCD keypad pane -V, Red Hat Enterprinserver, OpenStac	SSD Cache Pool Size: 1,600GB		
Management Notification	Redundant, hot-swapp; Multi-pathing support (CacheSafe technology; Port trunking / link aggi SANWatch managemen Email, fax, LAN broadca Microsoft Windows Ser Linux, SUSE Linux Enter	Recommended DIMM of DRAM:2GB Max. SS DRAM:8GB Max. SS able hardware modules EonPath), device mapper sign protects cached data during egation (IEEE 802.3ad), fait suite, embedded RAIDWat ast, SNMP traps, SMS ver 2008 / 2008 R2 / 2012, rprise, Sun Solaris, Mac OS 3-year limited (Batteries are of Replacement padvanced servins Replacement padvanced servins Premium servins	apacity per controller for SSD Cache D Cache Pool Size: 150GB D Cache Pool Size: 800GB upport g power outages by flushing data into lover, jumbo frame ich, terminal via RS-232C, Telnet/SSI / 2012 R2, Microsoft Windows Hyper X, HP-UX, IBM AIX, VMware, Citrix Xe hardware/software warranty and 8x5	DRAM:4GB Max DRAM:16GB Max oflash memory H, LCD keypad pane -V, Red Hat EnterprienServer, OpenStac phone, web, and er v (up to 5 years) uport + onsite diagr	SSD Cache Pool Size: 1,600GB		

- EonStor DS 3000G models: BBU + flash module optional and not included by default.
 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.
- Check with your local sales representative for complete details.
 All EonStor DS systems ship with standard service. Extended service terms may vary by region.
 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 48-bay LFF 4U 60-bay LFF					
Storage controller		Sin	gle or dual-redundant				
Host connectivity (per controller)		2 x 16Gb FC ports					
Onboard GbE ports (per controller)		2	2 x 1Gb iSCSI ports				
Cache memory (per controller)	2GB, 4GB, 8GB or 16GB						
Max drives (per system)	48 60						
Max drives (via expansion enclosure)	336	336 360					
Expansion enclosure (JBOD)	JB 2048		01/ 010/	JB 2060			
SAS expansion ports (per controller)			Gb/s SAS 4x wide port				
Cache backup technologies ¹	0.5		BU + Flash module	15V DDM CAC HDD			
Supported drives ²	• 2.5"	 2.5" SAS SSD 2.5" 15K RPM SAS HDD 2.5" SATA SSD (DS 3048GT/3060GT only) 3.5" 7200 RPM NL SAS HDD 3.5" 7200 RPM SATA HDD (DS 3048GT/3060GT only) 					
	Power supply: Three re Voltage and Frequency		Hz	Voltage and Frequ	Power supply: Two redundant 1600W Voltage and Frequency: 200-240VAC, 47-63Hz		
Power & Cooling	Power consumption - DS 3048RT: 775W - DS 3048GT: 645W Heat dissipation: 2938BTU/hour			Power consumption - DS 3060RT: 977W - DS 3060GT: 891W Heat dissipation: 2590BTU/hour			
Green design	Intelligent multi-level o	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, C Electromagnetic Cor		EUU KU				
	Ţ,	Snapshot	Snapshot images per Snapshot images per		Standard license: 64 / advanced license: 256 Standard license: 128 / advanced license: 4096		
	Local replication ³	Volume copy/mirror	Source volumes per s Replication pairs per s Replication pairs per s	source volume	Standard license: 16 / Advanced License: 32 Standard license: 4 / advanced license: 8 Standard license: 64 / advanced license: 256		
	Thin provisioning "Just-in-time" capacity allocation optimizes storage utilization and eliminates allocated but unused storage space						
Data services	Self-encrypting drives	Self-encrypting drives Unique factory encryption secures data plus makes deletion simple and complete					
Data set vices	Remote Replication ⁶		Replication per source Replication pairs per s Replication pairs per s	ource volume: 4			
	Automated Storage Tie	ering ⁶	Two (2) or four (4) stor SSD supports Automated data migrat	•			
	SSD Cache	 Supports up to four: Recommended DIMI DRAM:2GB Max. 	cess for random read-in SSDs per controller VI capacity per controlle SSD Cache Pool Size: 19 SSD Cache Pool Size: 8	er for SSD Cache po 50GB DF			
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	SANWatch management suite, embedded RAIDWatch, terminal via RS-232C, Telnet/SSH, LCD keypad panel						
Notification	Email, fax, LAN broadcast, SNMP traps, SMS						
OS support ²		erprise, Sun Solaris, N		IX, VMware, Citrix X	KenServer, OpenStack Cinder		
	Standard service		ed hardware/software w re covered under warrar		one, web, and email support		
Service and Support ⁵	Replacement part dispatch on the new Advanced service: 24x7 phone, web (up to 5 years) Premium service: 24x7 phone, web,		b, and email support + onsite diagnostics on the next business day , and email support + onsite diagnostics in 4 hours (up to 5 years)				
		EXTENDED ST	andard service up to 5 y	rears			

- 4. Check with your local sales representative for complete details.
 5. All EonStor DS systems ship with standard service. Extended service terms may vary by region.
 6. Remote replication and automated storage tiering functions are available with optional license.

EonStor DS 3000G models: BBU + flash module optional and not included by default.
 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.

Technical Specifications DS 3012R **DS 3016R** DS 3024R **DS 3024RB** Model name DS 3012G DS 3016G DS 3024G **DS 3024GB** 2U 24-bay SFF Form factor 2U 12-bay LFF 3U 16-bay LFF 4U 24-bay LFF Storage controller Single or dual-redundant 4 x 1Gb iSCSI ports 2 x 16Gb FC ports 4 x 8Gb FC ports 2 x 6Gb SAS ports Host connectivity (per controller) 2 x 10Gb iSCSI ports (RJ-45) 2 x 12Gb SAS ports 2/4 x 10Gb iSCSI ports (SFP+) 2 x 40Gb iSCSI ports Onboard GbE ports (per controller) 4 x 1Gb iSCSI ports (Optional) Cache memory (per controller) 2GB, 4GB, 8GB or 16GB 12 16 Max drives (per system) 24 Max drives (via expansion enclosure) 312 316 360 324 JB 2012-1 JB 2016-1 JB 2016-1 JB 2024B JB 2012-1 JB 2048 JB 2048 JB 2048 JB 2048 JB 2016-1 Expansion enclosure (JBOD) JB 2060 JB 2060 JB 2060 JB 2060 SAS expansion ports (per controller) 1 x 6Gb/s SAS 4x wide port Cache backup technologies BBU + Flash module • 3.5" 7200 RPM NL SAS HDD • 2.5" SATA/SAS SSD • 2.5" SATA/SAS SSD • 2.5" 10K RPM SAS HDD • 3.5" 7200 RPM SATA HDD • 2.5" 10K RPM SAS HDD Supported drives² • 2.5" 15K RPM SAS HDD • 3.5" 15K RPM SAS HDD • 2.5" 15K RPM SAS HDD Power supply: Two redundant 530W; Power supply: Three redundant 530W: Power supply: Two redundant 530W; Voltage and Frequency: 100-240VAC, Voltage and Frequency: 100-240VAC, Voltage and Frequency: 100-240VAC, 50-60Hz 50-60Hz 50-60Hz Power consumption Power consumption Power consumption Power consumption Power & Cooling - DS 3012R: 332W - DS 3016R: 416W - DS 3024R: 573W - DS 3024RB: 308W - DS 3016G: 416W - DS 3024G: 504W - DS 3024GB: 276W - DS 3012G: 285W Heat dissipation: 1148BTU/hour Heat dissipation: 1186BTU/hour Heat dissipation: 2426BTU/hour Heat dissipation: 1186BTU/hour 80 PLUS power supplies delivering more than 80% energy efficiency Green design Intelligent multi-level drive spin-down RAID level 0, 1(0+1), 3, 5, 6, 10, 30, 50, 60 **RAID** configurations Up to 32 logical drives and 64 partitions per logical volume Un to 2048 LUNs . Safety: UL, BSMI, CB, EAC Regulatory 4 · Electromagnetic Compatibility: CE, BSMI, FCC, KC Snapshot images per source volume Standard license: 64 / advanced license: 256 Snapshot Standard license: 128 / advanced license: 4096 Snapshot images per system Local replication Standard license: 16 / advanced license: 32 Source volumes per system Replication pairs per source volume Standard license: 4 / advanced license: 8 Volume copy/mirror Standard license: 64 / advanced license: 256 Replication pairs per system Thin provisioning "Just-in-time" capacity allocation optimizes storage utilization and eliminates allocated but unused storage space Self-encrypting drives Unique factory encryption secures data plus makes deletion simple and complete Replications per source volume: 16 Data services Remote replication 6 Replication pairs per source volume: 4 Replication pairs per system: 64 Two (2) or four (4) storage tiers based on drive types Automated storage tiering 6 SSD support Automated data migration with scheduling options Accelerating data access for random read-intensive environments, such as OLTP Supports up to four SSDs per controller Recommended DIMM capacity per controller for SSD Cache pool: SSD Cache (optional license) 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 Redundant, hot-swappable hardware modules Multi-pathing support (EonPath), device mapper support Availability and reliability 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 SANWatch management suite, embedded RAIDWatch, terminal via RS-232C, Telnet/SSH, LCD keypad panel Email fax LAN broadcast SNMP trans SMS Notification Microsoft Windows Server 2008 / 2008 R2 / 2012 / 2012 R2, Microsoft Windows Hyper-V, Red Hat Enterprise OS support ³ Linux, SUSE Linux Enterprise, Sun Solaris, Mac OS X, HP-UX, IBM AIX, VMware, Citrix XenServer, OpenStack Cinder Standard service 3-year limited hardware/software warranty and 8x5 phone, web, and email support (Batteries are covered under warranty for 2 years) Replacement part dispatch on the next business day (up to 5 years) Service and Support 5 Advanced service: 24x7 phone, web, and email support + onsite diagnostics on the next business day Upgrade/extension options (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

^{1.} EonStor DS 3000G models: BBU + flash module optional and not included by default

^{2.} For the latest compatibility details, refer to our official website for the latest Compatibility Matrix.

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

^{4.} Check with your local sales representative for complete details.

^{5.} All EonStor DS systems ship with standard service. Extended service terms may vary by region.

^{6.} Remote replication and automated storage tiering functions are available with optional license.

Technical Specifications



Model name	DS 3048R DS 3048G			DS 300 DS 300			
Form factor	4U 48-bay LFF	4U 48-bay LFF 4U 60-bay LFF					
Storage controller		S	ingle or dual-redun	dant			
Host connectivity (per controller)		2 x 16Gb FC ports					
Onboard GbE ports (per controller)			2 x 1Gb iSCSI por	ts			
Cache memory (per controller)			2GB, 4GB, 8GB or 1	6GB			
Max drives (per system)	48	48 60					
Max drives (via expansion enclosure)	336			360			
Expansion enclosure (JBOD)	JB 2048	1.	CCb/o CAC Av wid	JB 2060			
SAS expansion ports (per controller) Cache backup technologies 1			6Gb/s SAS 4x wid BBU + Flash modi	•			
Supported drives ²	• 2.5" SAS SSD • 2.5" 15K RPM SAS HDD • 2.5" SATA SSD (DS 3048G/3060G only) • 3.5" 7200 RPM NL SAS HDD • 2.5" 10K RPM SAS HDD • 3.5" 7200 RPM SATA HDD (DS 3048G/3060G only)						
	Power supply: Three in Voltage and Frequence		60Hz		pply: Two redundant 1600W nd Frequency: 200-240VAC, 47-63Hz		
Power & Cooling	Power consumption - DS 3048R: 775W - DS 3048G: 645W Heat dissipation: 293	8BTU/hour		- DS 3060 - DS 3060	nsumption DR: 977W DG: 891W ipation: 2590BTU/hour		
Green design	80 PLUS power suppl Intelligent multi-level	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, CB, EAC Electromagnetic Compatibility : CE, BSMI, FCC, KC						
		Snapshot	Snapshot images		Standard license: 64 / advanced license: 256 Standard License: 128 / advanced license: 4096		
	Local replication ³	Volume copy/mirror	Source volumes properties Replication pairs	per source volume	Standard license: 16 / advanced license: 32 Standard license: 4 / advanced license: 8 Standard license: 64 / advanced license: 256		
	Thin provisioning "Just-in-time" capacity allocation optimizes storage utilization and eliminates allocated but unused storage space						
	Self-encrypting drives Unique factory encryption secures data plus makes deletion simple and complete						
Data services	Remote replication ⁶		Replications per source volume: 16 Replication pairs per source volume: 4 Replication pairs per system: 64				
	Automated storage ti	ering ⁶	SSD support) storage tiers based o nigration with scheduli	31		
	SSD Cache (optional license)	 Supports up to fou Recommended DIN DRAM:2GB Max 	r SSDs per controll	ntroller for SSD Cache Size:150GB			
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	SANWatch management suite, embedded RAIDWatch, terminal via RS-232C, Telnet/SSH, LCD keypad panel						
Notification	Email, fax, LAN broadcast, SNMP traps, SMS						
OS support ²					yper-V, Red Hat Enterprise ix XenServer, OpenStack Cinder		
	Standard Service		ed hardware/softwa re covered under w		hone, web, and email support		
Service and Support ⁵	Upgrade/extension Op	Advanced s tions Premium se	ervice: 24x7 phone (up to 5 year	ars) , web, and email suppo	(up to 5 years) ort + onsite diagnostics on the next business day ort + onsite diagnostics in 4 hours (up to 5 years)		

EonStor DS 3000G models: BBU + flash module optional and not included by default.
 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.

Check with your local sales representative for complete details.
 All EonStor DS systems ship with standard service. Extended service terms may vary by region.
 Remote replication and automated storage tiering functions are available with optional license.

Technical Specifi	cations						
Model name	DS 3012RU DS 3012GU	DS 3016 DS 3016		DS 3024RU DS 3024SU		DS 3024RUB DS 3024SUB	
Form factor	2U 12-bay LFF	3U 16-bay l	.FF	4U 24-bay LFF		2U 24-bay SFF	
Storage controller	Single or dual-redundant dual-redundant/ Single upg				le upgradable t	o redundant	
Host board slot	2						
Host connectivity (per controller)	4×8 Gb/s FC ports $2/4 \times 10$ GbE/iS 2×5 Gb/s InfiniBand ports 4×1 GbE/iSCS			2 x 10GbE/iSCSI po 2/4 x 10GbE/iSCSI port 4 x 1GbE/iSCSI port 2 x 12Gb/s SAS por	oorts (SFP+) ts		
Onboard GbE ports (per controller)	4 x 1Gb iSCSI ports						
Cache memory (per controller)			B, 8GB, 16GB 32GI				
Max drives (per system)	12	16		24		24	
Max drives (via expansion enclosure)	432 436			JB 3024		JB 3024B	
Expansion enclosure (JBOD)	JB 3012 JB 3060 JB 3060L	JB 3016 JB 3060 JB 3060L		JB 3060 JB 3060L		JB 3060 JB 3060L	
SAS expansion ports (per controller)				SAS wide port			
Cache backup technologies ²				+ Flash module			
Supported drives ³	• 3.5" 7200 RPM NL SAS HDD • 3.5" 7200 RPM SATA HDD • 2.5" 10K/15K RPM SAS HDD • 2.5" SATA/SAS SSD						
Power & Cooling	F	ower supply: Two rec	undant 460W; Volt	age and Frequency: 10	0-240 Vac, 50-	60Hz	
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, CB, EAC Electromagnetic Compatibility: CE, BSMI, FCC, KC						
	Local replication ⁵	Snapshot Volume copy/mirror	Snapshot images Source volumes p		Standard Lic Standard lice	ense: 64 / advanced license: 256 ense: 128 / advanced license: 4096 ense: 16 / advanced license: 32 ense: 4 / advanced license: 8	
	 Thin provisioning		Replication pairs	per system	Standard lice	ense: 64 / advanced license: 256 es allocated but unused storage space	
	Self-encrypting drive	·		data plus makes deletic			
Data services	Remote replication ⁶			source volume: 16 per source volume: 4 per system: 64			
	Automated storage ti	ering ⁶	SSD support) storage tiers based o nigration with scheduli			
	SSD Cache (optional license)	 Supports up to four Recommended DIN DRAM:2GB Max 	SSDs per controlli 1M capacity per coi . SSD Cache Pool S . SSD Cache Pool S	ntroller for SSD Cache Size:150GB Size: 800GB	pool: DRAM:4GB DRAM:16GB	OLTP Max. SSD Cache Pool Size: 400GB Max. SSD Cache Pool Size: 1,600GB Max. SSD Cache Pool Size:6,400GB	
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	SANWatch manageme	ent suite, embedded F	AIDWatch, termina	al via RS-232C, TeInet/	SSH, LCD keyp	ad panel	
Notification	Email, fax, LAN broad	cast, SNMP traps, SN	IS				
OS support ³				Microsoft Windows Hy IBM AIX, VMware, Citri			
	Standard Service	(Batteries ar	e covered under wa	are warranty and 8x5 plarranty for 2 years)		email support	
Service and Support ⁷	Upgrade/extension Opt	Advanced solitions Premium se	ervice: 24x7 phone up to 5 yea)	ars) , web, and email suppo	ort + onsite dia	ignostics on the next business day	
1 Default: DDP4 4GRv1 with ECC per controller			E Ctanda 1 f	actions come default with	F Ct D.Ct		

Default: DDR4 4GBx1 with ECC per controller
 R/S model: default, G model: optional.
 For the latest compatibility details, refer to our official website for the latest Compatibility Matrix.
 Check with your local sales representative for complete details.

Standard functions come default with EonStor DS systems. Advanced functions are available with optional licenses.
 Remote replication and automated storage tiering functions are available with optional license.
 All EonStor DS systems ship with standard service. Extended service terms may vary by region.





www.infortrend.com

* All design and specification declared are subject to change without notice in advance. All rights reserved. Please refer to Infortrend website for further information or localization updates.

Tel:+886-2-2226-0126 E-mail: sales.ap@infortrend.com

China (Beijing, China) Asia Pacific (Taipei, Taiwan) | China (Beijing, China) | Infortrend Technology, Inc. | Infortrend Technology, Ltd.

Tel: +86-10-6310-6168 E-mail: sales.cn@infortrend.com

Japan (Tokyo, Japan) Infortrend Japan, Inc.

Tel:+81-3-5730-6551 E-mail : sales.jp@infortrend.com

Americas (Sunnyvale, CA, USA) Infortrend Corporation

Tel:+1-408-988-5088 E-mail: sales.us@infortrend.com

EMEA (Basingstoke, UK) Infortrend Europe Ltd.

Tel:+44-1256-305-220 E-mail: sales.eu@infortrend.com

