



EonStor DS 3000 Series

High Speed Flexible Storage Delivers Robust Reliability and Management

Fast Performance

- Up to 1.3M IOPS throughput handles the most demanding applications
- Seamless SSD support

Flexibility

- Choose from 8Gb/16Gb Fibre Channel, 1Gb/10Gb iSCSI, or 6Gb SAS host connectivity options
- Accommodate SATA and SAS HDDs/SSDs to fully tap capacity and speed

Reliability and Availability

- Strong media error detection, recovery, and correction ensure data integrity
- Single point of failure system outage prevented by hot-swap redundant hardware

Maximum Utilization

- Thin provisioning license included to simplify storage planning and enhance utilization

Highly Scalable and Dense Design

- Up to 360 drives allow you to scale as needed via expansion enclosures

The EonStor DS 3000 series boasts the latest technology, offering scalable storage, fast performance, and assured reliability. Up to 360 drives enable massive capacities, while swappable and redundant components plus data recovery prevent downtime. Thin provisioning included in the package alongside the SANWatch interface for easy deployment and maintenance, as EonStor DS 3000 solutions save costs with efficient power supplies, intelligent cooling, and smart drive activity.

Smart Media Scan and Recovery

Multiple features guarantee higher data integrity. Carry out automatic data scanning, which checks for errors and performs recovery without affecting performance – the process occurs in the background and during periods of lower activity. As a result, critical media integrity is safeguarded and the risk of data loss is greatly reduced.

Quick and Flexible Volume Rebuild

High speed EonStor DS 3000 systems allow you to rebuild volumes with significant time savings, meaning less waiting around for data to be recovered and lowered risk exposure to other system vulnerabilities. A 4TB NL-SAS drive can be rebuilt in nine hours, or 57% faster than previous-generation solutions. Rebuilding begins automatically as soon as recovery is needed, with no queuing or task prioritization. EonStor DS 3000 systems conduct rebuild operations without taking up I/O bandwidth, reducing system load and minimizing impact on storage performance. As such, rebuilds aren't just quicker – they are also far less intrusive to your work.

Fast Turbo-Charged Performance and High Scalability

Boost storage up to 1.3M IOPS with the latest technology. Whatever your requirements, the EonStor DS 3000 series can handle it. In addition to powerful processing, up to 360 drives can be accommodated, including SSDs, giving you access to large-scale capacities and fast speeds.

ES DS 3000 Series



User-Friendly Management

- Intuitive SANWatch 3.0 UI offers detailed yet easy to learn storage supervision
- Clearly understandable event and error messages enhance management, maintenance, and troubleshooting

Green Eco-Minded Solutions

- Energy-saving 80 PLUS power supplies
- Smart dynamic cooling reacts to system load, preventing excessive fan activity
- Intelligent multi-level disk spin-down based on storage access and demand
- Power savings lead to lower costs and longer component life span

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Enhanced and Clear Event Messages

Focus on productivity and getting more done rather than complicated storage management and maintenance. The EonStor DS 3000 series simplifies troubleshooting and keeps you fully informed of storage status with clear, detailed, and actionable event and error messages.

Modular and Future-Proof Host Board Design

With Fibre Channel, iSCSI, and SAS available, you can easily choose host boards to suit your FC/IP SAN and DAS needs. Host boards can be quickly upgraded as new compatible standards emerge, keeping storage solutions up to speed with the latest developments.

New SANWatch 3.0 User Friendly Interface

The redesigned proprietary GUI makes storage management and maintenance easy for more users. SANWatch 3.0 consolidates a wide range of functions, features, and tools in one convenient interface, without the long learning curve, and offers support for several languages.

Genstor Systems Inc.

sales@genstor.com
877-257-3783 Toll Free USA
408-980-0121 Phone
www.genstor.com



Technical Specifications



Model name	ESDS 3012R ESDS 3012G	ESDS 3016R ESDS 3016G	ESDS 3016RE ESDS 3016GE	
Form factor	2U 12-bay LFF 19-inch rackmount	3U 16-bay LFF 19-inch rackmount	3U 16-bay LFF 19-inch rackmount	
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		
Onboard GbE ports (per controller)	-	-	4 x 1Gb iSCSI ports	
Cache memory (per controller)⁴		2GB, 4GB, 8GB or 16GB		
Max drives (per system)	12	16	16	
Max drives (via expansion enclosure)⁵	312	316	316	
Expansion enclosure (JBOD)	JB 2012 JB 2048 JB 2060	JB 2016 JB 2048 JB 2060	JB 2016 JB 2048 JB 2060	
SAS expansion ports (per controller)		1 x 6Gb/s SAS 4x wide port		
Supported drives¹		<ul style="list-style-type: none"> • 2.5" SAS SSD - 200GB, 400GB, 800GB • 2.5" SATA SSD - 100GB, 200GB, 400GB, 800GB • 2.5" 10K RPM SAS - 300GB, 600GB, 900GB, 1.2TB • 3.5" 15K RPM SAS - 300GB, 450GB, 600GB • 3.5" 7200 RPM NL SAS - 1TB, 2TB, 3TB, 4TB • 3.5" 7200 RPM SATA- 1TB, 2TB, 3TB, 4TB 		
Power supplies	Two redundant 530W	Two redundant 530W	Two redundant 530W	
Green design	80 PLUS power supplies delivering more than 80% energy efficiency Intelligent multi-level drive spin-down			
RAID configurations	RAID level 0, (0+1), 3, 5, 6, 10, 30, 50, 60 Up to 32 logical drives and 64 partitions per logical volume Up to 2048 LUNs			
Data services	Local replication ²	Snapshot	Snapshot images per source volume Snapshot images per system	Standard license: 64 / advanced license: 256 Standard license: 128 / advanced license: 4096
		Volume copy/mirror	Source volumes per system Replication pairs per source volume Replication pairs per system	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		
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) ⁶ , failover ⁶ , jumbo frame ⁶			
Management	SANWatch management suite, embedded RAIDWatch, terminal via RS-232C, Telnet/SSH, LCD keypad panel			
Notification	Email, fax, LAN broadcast, SNMP traps, SMS, Skype			
OS support¹	Windows Server 2008 / 2008 R2 / 2012, Windows Hyper-V, Red Hat Enterprise Linux, SUSE Linux Enterprise, Sun Solaris, Mac OS X, HP-UX, IBM AIX, VMware, Citrix XenServer			
Service and support³	Standard service	3-year limited hardware/software warranty and 8x5 phone, web, and email support		
	Upgrade/extension options ⁴	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		

1. For the latest compatibility details, please contact our sales representatives.

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

3. All EonStor DS systems ship with standard service. Software maintenance covers software licenses for EonStor DS systems.

4. Options may vary by region.

5. Firmware upgrade is required while drives numbers are exceeding 240. Please contact Infortrend technical support for detail information.

6. Only available on models with iSCSI ports.

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Technical Specifications



Model name	ESDS 3024R ESDS 3024G	ESDS 3048RE ESDS 3048GE	ESDS 3060RE ESDS 3060GE
Form factor	4U 24-bay LFF 19-inch rackmount	4U 48-bay LFF 19-inch rackmount	4U 60-bay LFF 19-inch rackmount
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		
Onboard GbE ports (per controller)	-	2 x 1Gb iSCSI ports	2 x 1Gb iSCSI ports
Cache memory (per controller)⁴	2GB, 4GB, 8GB or 16GB		
Max drives (per system)	24	48	60
Max drives (via expansion enclosure)⁵	324	336	360
Expansion enclosure (JBOD)	JB 2016 JB 2048 JB 2060	JB 2048	JB 2060
SAS expansion ports (per controller)	1 x 6Gb/s SAS 4x wide port		
Supported drives¹	<ul style="list-style-type: none"> • 2.5" SAS SSD - 200GB, 400GB, 800GB • 2.5" SATA SSD - 100GB, 200GB, 400GB, 800GB • 2.5" 10K RPM SAS - 300GB, 600GB, 900GB, 1.2TB • 3.5" 15K RPM SAS - 300GB, 450GB, 600GB • 3.5" 7200 RPM NL SAS - 1TB, 2TB, 3TB, 4TB • 3.5" 7200 RPM SATA- 1TB, 2TB, 3TB, 4TB 	<ul style="list-style-type: none"> • 3.5" 7200 RPM NL SAS-1TB, 2TB, 3TB, 4TB • 3.5" 7200 RPM SATA-1TB, 2TB, 3TB, 4TB (ESDS 3048GE and ESDS 3060GE only) 	
Power supplies	Two redundant 530W	2 + 1 redundant 530W	Two redundant 1600W
Green design	80 PLUS power supplies delivering more than 80% energy efficiency Intelligent multi-level drive spin-down		
RAID configurations	RAID level 0, (0+1), 3, 5, 6, 10, 30, 50, 60 Up to 32 logical drives and 64 partitions per logical volume Up to 2048 LUNs		
Data services	Snapshot	Snapshot images per source volume Snapshot images per system	Standard license: 64 / advanced license: 256 Standard License: 128 / advanced license: 4096
	Local replication ²		
	Volume copy/mirror	Source volumes per system Replication pairs per source volume Replication pairs per system	Standard license: 16 / advanced license: 32 Standard license: 4 / advanced license: 8 Standard license: 64 / advanced license: 256
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Management	SANWatch management suite, embedded RAIDWatch, terminal via RS-232C, Telnet/SSH, LCD keypad panel		
Notification	Email, fax, LAN broadcast, SNMP traps, SMS, Skype		
OS support¹	Windows Server 2008 / 2008 R2 / 2012, Windows Hyper-V, Red Hat Enterprise Linux, SUSE Linux Enterprise, Sun Solaris, Mac OS X, HP-UX, IBM AIX, VMware, Citrix XenServer		
Service and support³	Standard Service	3-year limited hardware/software warranty and 8x5 phone, web, and email support	
	Upgrade/extension Options ⁴	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	

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