



EonStor DS G7- Fibre Solutions

Affordable and flexible storage solutions featuring enterprise-class data-protection

Highlights

Reliability and Availability

- Local replication functionality enables quick data recovery after logical and physical errors
- Redundant and hot-swappable hardware components eliminate single point of failure
- Multiple RAID levels protect data against drive failures
- CacheSafe technology protects cached data during a power outage

Performance

- Leading performance supports demanding business applications

Scalability

- Scale storage capacity (up to 240 drives) as needed through expansion enclosures
- High-density expansion enclosures reduce storage footprint

Management

- User-friendly and intuitive SANWatch interface allows for simple storage management

Green

- Energy efficient power supplies
- Intelligent multi-level drive spin-down

To keep up with ever increasing demands on their IT infrastructures, enterprises and SMBs require solutions that can offer excellent throughput and IOPS and provide sufficient scalability to accommodate future business growth. With today's price points in mind, the EonStor DS G7 storage solution provides a powerful architecture to ensure organizations can easily meet the requirements of mission-critical applications and can flexibly scale storage capacity to more than 200 drives to accommodate growing needs. Coupled with high-availability features, advanced hardware, modular design, and easy and intuitive management, EonStor DS G7 offers organizations a decisive competitive edge by pushing IT efficiency to previously unattainable levels.

Superior Performance Levels Meet Demand of Mission-Critical Applications

Organizations require solutions that can offer excellent performance levels to meet the demands of mission-critical applications such as HD media editing and broadcasting, cloud services, and HPC. Featuring advanced hardware platforms, EonStor DS G7 solutions provide superior throughput of up to 5,500 MB/s Read and up to 3,000 MB/s Write and support up to 700K Read IOPS.

High-Availability SAN Delivers Great Price/Performance

Data availability is critical to any business operation. EonStor DS G7 features high-availability hardware design with redundant, hot-swappable components, such as RAID controllers, power supplies and cooling fans, to eliminate single point of failure. RAID protection ensures data accessibility during drive failure. In the event of a power outage, CacheSafe technology will automatically leverage power of the Battery Backup Unit (BBU) to safeguard cached data by writing it to the flash module for permanent retention.

Flexible Scalability

The EonStor DS G7 solution supports dynamic scaling up to 240 disk drives to aid in the planning for future storage growth. The "scale as you grow" flexibility of the EonStor DS G7 storage solution minimizes upfront investments and provides the best overall total cost of acquisition (TCA). In addition, capacity scaling with high-density expansion enclosures enables users to minimize their storage footprint.

Intuitive and Easy Management

Storage management should be simple. The EonStor DS G7 storage solution includes a comprehensive management software suite, SANWatch, that guides users through initializing, configuring and maintaining the EonStor DS G7 system every step of the way. SANWatch enables users to centrally manage multiple subsystems over a standard TCP/IP network. Besides providing all firmware features through a user-friendly GUI, SANWatch also supports script-based configuration of multiple subsystems simultaneously. Automatic event notifications can be customized for a wide variety of storage environments.

High Energy Efficiency

Contributing to environmental sustainability, the EonStor DS G7 storage solution enables energy cost-savings while maintaining performance. EonStor DS G7 is equipped with power saving designs such as high-efficiency power supplies and intelligent multi-level drive spin down.

	ESDS S24F-R2850 ESDS S24F-G2850	ESDS S16F-R2850 ESDS S16F-G2850	ESDS S12F-R2850 ESDS S12F-G2850
Hardware Configurations			
Storage Controller		Dual redundant or single	
Host Connectivity (per controller)		4 x 8Gb/s FC ports	
Cache Memory (per controller)		4GB or 8GB	
Drive Connectivity		Exclusively 6Gb/s SAS	
Max. Drives (per system)	24	16	12
Max. Drives (via JBOD)	232	240	228
Expansion Enclosure (JBOD)	ESDS S16S-J2000-R ESDS S48S-J2000-R ESDS S16S-J2000-S ESDS S48S-J2000-G	ESDS S16S-J2000-R ESDS S48S-J2000-R ESDS S16S-J2000-S ESDS S48S-J2000-G	ESDS S12S-J2000-R ESDS S48S-J2000-R ESDS S12S-J2000-G ESDS S48S-J2000-G
SAS Expansion Port		1 x 6Gb/s SAS 4x wide port per controller	
Supported Drives ¹	300GB, 450GB or 600GB - 3.5" 15,000 RPM 6Gb/s SAS drives 1TB, 2TB or 3TB - 3.5" 7,200 RPM 6Gb/s Nearline SAS drives		
Power Supplies	Three redundant 405W	Two redundant 530W	Two redundant 530W
Form Factor ²	4U, 19-inch rackmount	3U, 19-inch rackmount	2U, 19-inch rackmount
Green	80 PLUS-certified power supplies ³ 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 1024 LUNs		
Data Services			
Local Replication ⁴	Snapshot	Snapshot images per source volume Snapshot images per system	Standard License: 64 / Advanced License: 256 Standard License: 128 / Advanced License: 4,096
	Volume Mirror/Copy	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
Availability and Reliability	Redundant, hot-swappable hardware modules Multi-pathing support (EonPath); Device mapper support CacheSafe technology: protects cached data during power outage by flushing data into flash memory		
Management	SANWatch management suite; Embedded RAIDWatch; Terminal via RS-232C; Telnet/SSH; LCD keypad panel		
Notification	Email, Fax, LAN broadcast, SNMP traps, SMS, MSN messenger		
OS Support¹	Windows Server 2003, Windows Server 2008, 2008 R2 (including Hyper-V), Red Hat Enterprise Linux, SUSE Linux Enterprise, Sun Solaris, Mac OS X, HP-UX, IBM AIX, VMware, Citrix XenServer		
Service and Support⁵			
Standard Service	3-year limited hardware/software warranty and 8x5 phone, web and email support		
Upgrade/Extension Options ⁶	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. For detailed dimensions, please check the Infortrend website.

3. On the ESDS S16F-R2850, ESDS S16F-G2850, ESDS S12F-R2850, ESDS S12F-G2850.

4. Standard functions come default with EonStor DS G7 systems.

Advanced functions are available with optional license.

5. All EonStor DS systems are shipped with Standard Service.

Software maintenance covers the software licenses for EonStor DS systems.

6. Options may vary by region.