



EonStor DS S12F-R/S2840N DC Power Storage Systems



Highlights

DC Power

- DC power systems ideal for telco environments, military applications, and oil and gas industries

Reliability and Availability

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

Performance

- Leading performance supports demanding business applications

Scalability

- Scale storage capacity (up to 84 drives) as needed through expansion enclosures

Management

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

Green

- Intelligent multi-level drive spin-down

The EonStor DS S12F-R2840N and S12F-S2840N are DC power storage systems ideal for telco environments, military applications, and oil and gas industries. With a comprehensive set of data protection features, the EonStor DS systems ensure high data availability. Coupled with advanced hardware design, modular architecture, easy and intuitive management and exceptional price-performance, the EonStor DS S12F-R2840N and S12F-S2840N give organizations a decisive competitive edge by making IT efficiency keep up with growing storage needs.

High-Availability SAN Delivers Great Price-Performance

Data availability is critical to any business operation. Infotrend's EonStor DS storage solution features high-availability hardware designs with redundant, hot-swappable hardware components, such as RAID controllers, power supplies and cooling fans, to eliminate any single-point-of-failure. Hardware 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. To protect valuable data sets against more critical threats, EonStor DS also supports local and remote replication capabilities. Data availability can be achieved with minimal downtime in case of human errors or data volume failure by employing the EonStor DS replication features. Leveraging Infotrend's world class RAID engine and Fibre Channel protocol, EonStor DS storage solution delivers breakthrough performance for demanding applications.

Flexible Scalability

The EonStor DS storage solution supports dynamic scaling to aid in the planning for future storage growth. Flexible drive type and capacity support satisfies current applications and enables you to accommodate future needs. The EonStor DS storage solution can be expanded to 84 drives to meet the proliferation of storage growth. The "pay as you grow" flexibility of the EonStor DS storage solution minimizes upfront investments and provides the best overall Total Cost of Acquisition (TCA).

Intuitive and Easy Management

Storage management should be simple. The EonStor DS storage solution includes a comprehensive management software suite, SANWatch, to centrally manage multiple EonStor DS systems over a standard TCP/IP network. EonStor DS status and event information summary can be viewed on the portal window. Necessary functions to configure, manage and monitor the EonStor DS are only a few clicks away. Besides providing all firmware features through a user-friendly GUI, SANWatch also supports script-based configuration of multiple EonStor DS systems simultaneously. Automatic critical event notifications can be customized to suit the most critical storage environment. SANWatch will guide users through initializing, configuring and maintaining the EonStor DS every step of the way.

DC Power

Many IT infrastructures in the telco sector, military organizations, and oil and gas industries require systems with DC power to keep their applications up and running. With dual redundant, highly reliable DC power supplies, the EonStor DS S12F-R2840N and S12F-S2840N storage systems are designed to deliver excellent performance in these infrastructures.

	ESDS S12F-R2840N	ESDS S12F-S2840N	
Hardware Configurations			
Storage Controller	Dual redundant	Single (Upgradable to dual redundant)	
Host Connectivity (per controller)	4 x 8Gb/s FC ports		
Cache Memory (per controller)	Default 1GB ¹ , up to 4GB		
Drive Connectivity	Exclusively 6Gb/s SAS		
Max. Drives (per system)	12		
Max. Drives (via JBOD)	84		
Expansion Enclosure (JBOD)	ESDS S12S-J2000-RN	ESDS S12S-J2000-SN	
• Controller	Dual redundant	Single (Upgradable to dual redundant)	
• Host Connectivity	Two (2) 6Gb/s SAS 4x wide ports per controller		
• Drive Connectivity	Exclusively 6Gb/s SAS		
• Drive Bays	12		
• Power Supplies	Two Redundant 530W DC/DC Voltage: -48VDC @16A nominal / -36VDC @22A to -72VDC @11A		
• Form Factor	2U, 19-inch rackmount		
SAS Expansion Port	1 x 6Gb/s SAS 4x wide port per controller		
Supported Drives ²	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 300GB, 450GB or 600GB - 2.5" 10,000 RPM 6Gb/s SAS drives		
Power Supplies	Two Redundant 530W DC/DC Voltage: -48VDC @16A nominal / -36VDC @22A to -72VDC @11A		
Form Factor ³	2U, 19-inch rackmount		
Green	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: 1,024 / 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
Remote Replication ⁵	Replication source volume Replication pairs per source volume Replication pairs per system	16 4 64	
Thin Provisioning ⁵	"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 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 Support²	Windows Server 2003, Windows Server 2008, 2008 R2 (including Hyper-V), Red Hat Enterprise Linux, SUSE Linux Enterprise, Sun Solaris, Mac OS X, VMware		
Service and Support⁶			
Standard Service	3-year limited hardware/software warranty and 8x5 phone, web and email support		
Upgrade/Extension Options ⁷	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. Default capacity may vary by region.

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

3. For detailed dimensions, please check the Infortrend website.

4. Standard functions come default with EonStor DS systems. Advanced functions are available with optional license.

5. Available with optional license.

6. All EonStor DS systems are shipped with Standard Service. Software maintenance covers the software licenses for EonStor DS systems.

7. Options may vary by region.