

EonStor DS S48F-R/G2842

High-Density Storage



Highlights

High Density

- 4U/48-bay form factor offers extreme storage capacity and excellent cost efficiency

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
- Hybrid host connectivity offers cost-effective remote replication and SAN tiering

Scalability

- Scale storage capacity (up to 240 drives) as needed through expansion enclosures

Management

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

Green

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

Downtime can have serious consequences for enterprises and SMBs. The challenge for SMBs is to pro-actively prevent downtime within a limited budget. With today's price points in mind, the EonStor DS storage solution provides comprehensive data protection to ensure the highest data availability for the storage area network (SAN) and direct attached storage (DAS). Coupled with advanced hardware design, modular architecture, easy and intuitive management and exceptional price-performance, EonStor DS brings price-conscious companies 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. Infortrend'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 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. The EonStor DS storage solution delivers breakthrough performance for demanding business applications.

Flexible Scalability

The EonStor DS storage solution supports dynamic scaling to aid in the planning for future storage growth. Flexible drive capacity support satisfies current applications and enables you to accommodate future needs. The EonStor DS storage solution can be expanded to more than two hundred drives to meet the proliferation of storage growth. The "scale 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 subsystems 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 subsystems 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.

High-Density Design

Featuring a 4U/48-bay form factor, the EonStor DS S48F-R/G2842 systems offer extremely large storage capacities ideal for applications such as high performance computing (HPC) and data archiving. The high density of the systems reduces the required amount of floor space and lowers power consumption. Combined with competitive prices, the high density delivers excellent cost efficiency. The user-friendly system design features three separate drawers accommodating 16 disk drives each, enabling users to quickly identify disk drives and easily maintain the system.

ESDS S48F-R2842

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Hardware Configurations			
Storage Controller	Dual redundant	Single	
Host Connectivity (per controller)	4 x 8Gb/s FC ports + 2 x 1GbE iSCSI ports		
Cache Memory (per controller)	Default 1GB ¹ , up to 4GB		
Drive Connectivity	Exclusively 6Gb/s SAS		
Max. Drives (per system)	48		
Max. Drives (via JBOD)	240		
Expansion Enclosure (JBOD)	ESDS S48S-J2000-R	ESDS S48S-J2000-G	
• Controller	Dual redundant	Single	
• Host Connectivity	Two (2) 6Gb/s SAS 4x wide ports per controller		
• Drive Connectivity	Exclusively 6Gb/s SAS		
• Drive Bays	48		
• Power Supplies	2+1 redundant 530W power supplies		
• Form Factor / Dimensions	4U, 19-inch rackmount / 445mm (W) x 175.9mm (H) x 873.5mm (D)		
SAS Expansion Port	1 x 6Gb/s SAS 4x wide port per controller		
Supported Drives ²	1TB or 2TB - 3.5" 7,200 RPM 6Gb/s Nearline SAS drives		
Power Supplies	2+1 redundant 530W power supplies		
Form Factor / Dimensions	4U, 19-inch rackmount / 445mm (W) x 175.9mm (H) x 873.5mm (D)		
Green	80 PLUS-certified 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 1024 LUNs		
Data Services			
Local Replication ³	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 ⁴	Replication source volume Replication pairs per source volume Replication pairs per system	16 4 64	
Thin Provisioning ⁴	"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, 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. Default capacity may vary by region.

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

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

4. 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.