

8Gb/s Fibre-SAS/SATA Series



Highlights

Performance

Two 8G FC ports on each controller, delivering up to 2,800MB/s Read and 870MB/s Write performance

Scalability

Scaled to house more than one hundred drives through expansion enclosures

Reliability and Availability

- High Availability (HA) modular design achieves high fault-tolerant capability against hardware component failure
- Full RAID protection against drive failure
- CacheSafe technology protects cached data during an unscheduled power outage

Management

Simple configuration, management and monitoring via SANWatch®

Green

- Power supplies delivering high energy efficiency
- Dynamic cooling mechanism
- Intelligent drive spin-down

Infortrend's next-generation 8Gb/s Fibre Channel (FC) storage systems are designed to support reliable and easy-to-manage SAN for throughput-demanding applications. Featuring blazing performance, robust availability and advanced technology, it helps users meet harsh data center demands in the most cost-effective way.

High-speed SAN with Powerful Scalability

Seeing 8G FC as the common protocol in future enterprise SAN, Infortrend® furnishes all its EonStor® G6 Fibre-to-SAS/SATA models with two 8G FC host ports on each controller. When data grow out of the capacity threshold of a single subsystem, through expansion enclosure attachment, S12F models can be expanded to house a maximum of 84 drives, while both S16F and S24F can be scaled up to an installation housing more than one hundred drives. Powered by the new-generation RAID engine as its heart, the G6 Fibre-to-SAS/SATA Series can deliver as high as 2,800 MB/s Read and 870 MB/s Write performance to process the large amount of data. The no-delay, smooth operations it enables can satisfactorily meet the service levels your business requires. Coupled with the broad support for enterprise-level OS, such as Windows® Server 2008, Solaris, Linux, and server virtualization, such as VMware® and Microsoft® Hyper-V®, it can serve as data storage for top-tier applications.

Robust Availability and Reliability

The EonStor G6 Series is based on High Availability (HA) modular design. All main hardware modules, including controllers, power supplies, and cooling fans, come in redundant pairs to achieve high fault-tolerant capability. The G6 Series also provides comprehensive RAID functions to protect data against drive failure. If one or two drive fail(s), you can still enjoy continuous accessibility to the data of full integrity and later use hot spare to restore the data volume back to its RAID-protected state. To better safeguard cached data, the G6 arrays also come with new CacheSafe technology. In the event of an unscheduled power outage, the Battery Backup Unit (BBU) will automatically supply power to write cached data into flash module for permanent retention, which eliminates the common 72-hour battery power limitation that can cause data loss.

Easy Management

Through the feature-rich management suite, SANWatch®, users can centrally manage multiple EonStor G6 subsystems locally or remotely over the LAN/WAN. In the portal window, an overview of all subsystems is displayed to provide status summary and event info. With only a few clicks, you can easily access the functions necessary to configure, manage, and monitor the arrays. Besides providing all firmware features through a user-friendly GUI, SANWatch also supports script-based configuration of multiple subsystems at a time. When critical events happen, the system would automatically notify you through various configurable methods for proactive handling. With SANWatch, initializing EonStor G6 arrays for applications and monitoring their real-time status changes are all easy to realize.

Green Technologies

Aware of the important role green IT plays in environmental sustainability, Infortrend equips all its EonStor G6 models with advanced power-saving designs. Coming with power supplies delivering high energy efficiency, dynamic cooling mechanism and intelligent drive spin-down technology, the EonStor G6 achieves outstanding energy efficiency. While benefiting the environment, the green initiative Infortrend takes also enhances business advantages with cut-down energy expenses.

Technical Specifications

	ES S12F-R1840 ES S12F-G1840	ES S16F-R1840 ES S16F-G1840	ES S24F-R1840 ES S24F-G1840
Hardware Configurations			
Storage Controller	Dual or single controller(s), each providing two 8Gb/s FC host ports		
Cache Memory (per controller)	Default 1GB, upgradeable to 2GB		
No. of Drives (SAS or SATA II)	12	16	24
Max. No. of Drives	84	112	104
Expansion Enclosure	ES S12S-J1002-R ES S12S-J1000-G	ES S16S-J1000-R ES S16S-J1000-S	ES S16S-J1000-R ES S16S-J1000-S
SAS Expansion Port (per controller)	One		
Power	Two 530W	Two 530W	Three 405W
Cooling	Cooling modules housed within the power supply units		
Dimensions*	2U, 19-inch rackmount	3U, 19-inch rackmount	4U, 19-inch rackmount

Highlights	
Green	Power supplies delivering high energy efficiency; dynamic cooling mechanism; smart drive spin-down
RAID Configurations	<ul style="list-style-type: none"> · RAID level 0, 1(0+1), 3, 5, 6, 10, 30, 50, 60 · Up to 32 logical drives and 64 partitions per logical drive · Up to 1024 LUNs
Availability and Reliability	<ul style="list-style-type: none"> · Redundant, hot-swappable hardware modules · Multi-pathing support (EonPath); Device mapper support · CacheSafe technology, protecting cached data during power outage by making backup battery provide power to write them into flash module
Management	SANWatch [®] management suite; Embedded RAIDWatch [®] ; Terminal via RS-232C; Telnet/SSH/LCD front panel
Notification	Email, Fax, LAN broadcast, SNMP traps, SMS, MSN messenger
OS Support	Windows Server 2003, Windows Server 2008 (including Hyper-V)**, Red Hat Enterprise, Linux, SUSE Linux Enterprise, Sun Solaris, Mac OS X, VMware**
Service and Warranty	<ul style="list-style-type: none"> · 3-year limited warranty for subsystems · Optional warranty upgrades available

* For detailed dimensions, please check Infortrend website.

** The date of fully tested support will be released on Infortrend website.

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