

8Gb/s Fibre-SAS Series



Highlights

Performance

- Four 8Gb/s FC ports on each controller, delivering breakthrough throughput power

Scalability

- Scaling to more than 100 drives through expansion enclosures

Reliability and Availability

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

Management

- Simple configuration, management and monitoring via SANWatch

Green

- Power supplies delivering high energy efficiency
- Dynamic cooling mechanism
- Intelligent multi-level 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, they help users meet harsh datacenter demands in the most cost-effective way.

High-speed SAN with Powerful Scalability

Infortrend furnishes all its EonStor G6 Fibre-to-SAS models with four 8Gb/s FC host ports on each controller for flexible connectivity. When data grows out of the capacity threshold of a single subsystem, through expansion enclosures S12F models can be expanded to house a maximum of 84 drives, while the S16F and S24F models can be scaled up to more than 100 drives. Based on the next-generation RAID engine, the G6 Fibre-to-SAS Series can deliver outstanding throughput power to process large amounts of data and meet the service levels your business requires. Coupled with the broad support for enterprise-level OS and server virtualization, the systems 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 drives fail, you can still enjoy continuous access to data featuring full integrity and later use hot spares 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 a 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 via LAN/WAN. In the portal window, an overview of all subsystems is displayed to provide status summary and event information. 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 will automatically notify you through various configurable methods for pro-active handling. With SANWatch, initializing EonStor G6 arrays for applications and monitoring their real-time status changes are easy tasks.

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 multi-level drive spin-down technology, the EonStor G6 achieves outstanding energy efficiency. While benefiting the environment, the green features also enhance business advantages with reductions of energy expenses.



Hardware Configurations	ES S12F-R1840-4 ES S12F-G1842-4	ES S16F-R1840-4 ES S16F-G1840-4	ES S24F-R1840-4 ES S24F-G1840-4
Storage Controller	Dual redundant or single controller(s), each providing four 8Gb/s FC host ports		
Cache Memory (per controller)	Default 1GB, upgradeable to 4GB		
No. of Drives (exclusively SAS)	12	16	24
Max. No. of Drives (via JBOD)	84	112	104
Expansion Enclosure (JBOD)	S12S-J1002-R S12S-J1000-G	S16S-J1000-R S16S-J1000-S	S16S-J1000-R S16S-J1000-S
No. of SAS Expansion Port (per controller)	One		
Power Supplies	Two redundant 530W Two redundant 350W	Two redundant 530W	Three redundant 405W
Dimensions ¹	2U, 19-inch rackmount	3U, 19-inch rackmount	4U, 19-inch rackmount

Technical Highlights

Green	80 PLUS-certified power supplies ² delivering high energy efficiency; dynamic cooling mechanism; 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 drive Up to 1024 LUNs
Availability and Reliability	Redundant, hot-swappable hardware modules Multi-pathing support (EonPath); Device mapper support CacheSafe technology protects cached data during power outage by enabling backup battery to provide power to write 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 Support ³	Windows Server 2003, Windows Server 2008 (including Hyper-V), Red Hat Enterprise Linux, SUSE Linux Enterprise, Sun Solaris, Mac OS X, VMware, HP-UX, IBM AIX
Service and Support	3-year limited warranty Optional warranty upgrades available

1. For detailed dimensions, please check the Infotrend website.
2. Currently only on S12F-R1840-4 and S16F-R/G1840-4.

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

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