

8Gb/s Fibre-SAS/SATA Series



Highlights

Performance

- Four 8G FC ports on each controller, delivering breakthrough throughput power

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
- Hardware RAID protects data 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 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, 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 four 8G FC host ports on each controller for flexible connectivity. 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. Based on the new-generation RAID engine as its heart, the G6 Fibre-to-SAS/SATA Series can deliver outstanding throughput power to process large amounts 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 multi-level 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.



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 controller provides four 8Gb/s FC host ports		
Cache Memory (per controller)	Default 1GB, upgradeable to 4GB		
No. of Drives (SAS or SATAII)	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 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, protecting cached data during power outage by making backup battery provide power to write them 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 (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 Infotrend website.

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