

SCSI -SAS/SATA Series



Highlights

Performance

- Four Ultra-320 SCSI ports on the controller, delivering best-in-class performance

Scalability

- Scaled for abundant capacity through expansion enclosures or by daisy-chaining additional subsystems or other SCSI devices

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

- 80 PLUS Silver-certified power supplies delivering more than 85% energy efficiency
- Dynamic cooling mechanism
- Intelligent drive spin-down

Powered by Infotrend's new-generation RAID engine, the EonStor G6 SCSI-to-SAS/SATA series advances the throughput power and scalability SCSI arrays are capable of to a new level. These advanced storage systems combine the protocol of time-proven reliability with the latest technology to help users rejuvenate their existing SCSI investments to meet harsher data demands.

SCSI-host Storage Delivering Unprecedented Performance and Scalability

For more than 20 years, SCSI has been the predominant protocol in data centers. Even until now when Serial Attached SCSI (SAS) is gradually replacing it as the succeeding standard for enterprise server and storage environments, many users still trust their Direct-Attached Storage (DAS) deployment on SCSI-host storage. To help users leverage new technology while protecting current investment, Infotrend delivers the EonStor G6 SCSI-to-SAS/SATA series. With ASIC667 core technology and four Ultra-320 SCSI ports, the subsystems provide outstanding processing power to satisfactorily deal with even data-intensive applications. The SCSI-to-SAS/SATA models also come with great scalability. When a single subsystem can no longer support the necessary capacity, users can connect it with expansion enclosures for up to more than 100 drives or daisy-chain additional subsystems or other SCSI devices. By intermixing SAS and SATA drives in the installation, tiered storage can be built to meet diverse applications needs at great cost-efficiency.

Robust Availability and Reliability

The EonStor G6 SCSI-to-SAS/SATA Series is based on High Availability (HA) modular design. The 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), users 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, users 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 users 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, Infotrend equips all its EonStor G6 models with advanced power-saving designs. Coming with 80 PLUS Silver-certified power supplies delivering more than 85% energy efficiency, dynamic cooling mechanism and intelligent drive spin-down technology, the EonStor G6 achieves outstanding energy efficiency. While benefitting the environment, the green initiative Infotrend takes also enhances business advantages with cut-down energy expenses.



Hardware Configurations	ES S12U-G1440	ES S16U-G1440
Storage Controller	Single controller, providing four Ultra-320 SCSI ports	
Cache Memory	Default 1GB, upgradeable to 2GB	
No. of Drives (SAS or SATA II)	12	16
Max. No. of Drives (via JBOD)	84	112
Expansion Enclosure (JBOD)	ES S12S-J1000-G	ES S16S-J1000-S
SAS Expansion Port	One	
Power	Two 350W	Two 530W
Cooling	Cooling modules housed within the power supply units	
Dimensions*	2U, 19-inch rackmount	3U, 19-inch rackmount

Highlights

Green	80 PLUS Silver-certified power supplies delivering more than 85% 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 960 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 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
Service and Support	<ul style="list-style-type: none"> · 3-year limited warranty for subsystems · Optional warranty upgrades available

* For detailed dimensions, please check Infotrend website.

** Currently only on S16U-G1440.

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

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