

10GbE iSCSI -SAS/SATA Series



Highlights

Performance

- Featuring two 10GbE iSCSI ports on each controller to enable IP SAN consolidation over the latest Ethernet infrastructure

Scalability

- Scaled to house up to 112 SAS or SATA 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

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

Built upon the latest Ethernet technology, Infortrend's next-generation 10GbE iSCSI storage systems are designed to support a powerful IP SAN delivering breakthrough performance, flexible scalability, high availability and easy management. In datacenters deployed with 10GbE backbones, the storage systems allow you to leverage investments on IP network to realize SAN consolidation and satisfy harsh performance demands for throughput-demanding applications, such as server virtualization, video on-demand and remote backup, in the most cost-effective way.

High-speed SAN with Powerful Scalability

To enable IP SAN consolidation over the latest 10GbE infrastructure, Infortrend furnishes all its EonStor G6 iSCSI-to-SAS/SATA storage systems with two 10GbE iSCSI host ports on each controller. Powered by the new-generation RAID engine, the systems deliver outstanding performance to satisfactorily meet the service levels required by your virtualized datacenters and throughput-demanding applications. When data grow beyond the capacity a single system can provide, the system can be scaled to house a maximum of 112 drives through expansion enclosures. By flexibly intermixing high-performance SAS and large-capacity SATA drives in the configuration, you can leverage your budgets to fulfill various data requirements in the most efficient way. 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™, the 10GbE iSCSI-to-SAS/SATA arrays are ideal 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 80 PLUS-certified power supplies delivering more than 85% of 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 S16E-R1240 | ES S16E-G1240 |
|-------------------------------------|--|---------------|
| Storage Controller | Dual redundant | Single |
| No. of Host Channels (10GbE iSCSI) | 4 (SFP+) | 2 (SFP+) |
| Cache Memory (per controller) | Default 1GB, upgradeable to 4GB | |
| No. of Drives (SAS or SATAII) | 16 | |
| Max. No. of Drives (via JBOD) | 112 | |
| Expansion Enclosure (JBOD) | S16S-J1000-R | S16S-J1000-S |
| No. of Drive Expansion Ports (SAS) | 2 | 1 |
| Power Supplies | Two redundant 530W | |
| Dimensions ¹ | 3U, 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.

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