

Data sheet

HP StoreEver ESL G3 Tape Library



Meet enterprise-wide data growth efficiently



May 2013



Watch this video to learn more about HP StoreEver ESL G3 Tape Library's HA.

HP StoreEver Enterprise Storage Library (ESL) G3 Tape Library delivers high scalability to keep pace with unpredictable data growth. Choose from a range of base configurations and scale up to over 12,000 tape cartridges in increments of 100 slots for capacity on demand. Incorporating between 1 and 96 drives, you can consolidate and store up to 75 PB (with data compression at 2.5:1) of enterprise data.

Supporting data growth is only part of the story. StoreEver ESL G3 Tape Library also delivers high availability through redundant power supplies and dual-robotics capability, while host-path connectivity failover provides improved library performance. Management and control of multiple tape libraries is delivered by an intelligent single-pane-of-glass command GUI. Leading library management tools and HP TapeAssure enable predictive and proactive monitoring of tape drives, media, and library health. Further, hardware data encryption solutions provide additional data security.

Key features and benefits

Broad scalability

- Scale horizontally in 100-slot increments, with a range of base library bundles
- Scale from 100 to 12,006 tape cartridges—from 1 to 96 LTO-6, LTO-5, or LTO-4 Ultrium tape drives—and 1 to 16 library frames, with each frame in a standard 19-inch rack form-factor
- Deliver high-density storage of up to 75 PB (with data compression at 2.5:1) by using HP LTO-6 Ultrium tape drives and high-density expansion modules achieving a 12,006-slot configuration
- Benefit from customer configurable import and export (I/E) slots from 24 to 528 for fast bulk load and unload. Flexible scaling options—scale with expansion modules (provide capacity and performance expansion) or high-density expansion modules (providing capacity expansion only with 780 slots per frame)

High-availability

- Support ongoing host and SAN connectivity under varying conditions with library LUN control failover
- Achieve near-continuous data access with active dual-robotic capability
- Protect data against costly data breach with Federal Information Processing Standard (FIPS)-compliant data encryption and encryption key management



Longevity

- Archive important business data with a media shelf-life of up to 30 years
- Achieve lower cost per GB for long-term storage without ongoing power or energy requirements

Reduced TCO and management burden

- HP Command View Tape Library software eases data protection with remote management, and diagnostics multiple tape libraries from a single pane of glass.
- HP TapeAssure makes managing, fine-tuning, and archiving faster and easier with comprehensive reports on status, performance, utilization, and health of all tape drives and media.
- Automated media pool provides support for advanced partitioning by automatically reallocating partition space as data storage requirements grow.

HP StoreEver ESL G3 Tape Library



Product name	HP StoreEver ESL G3 100-slot Base Module Tape Library	HP StoreEver ESL G3 300-slot Base Module Tape Library	HP StoreEver ESL G3 700-slot Base Module Tape Library	HP StoreEver ESL G3 1500-slot Base Module Tape Library	HP StoreEver ESL G3 3000-slot Base Module Tape Library	HP StoreEver ESL G3 5000-slot Base Module Tape Library
Model differentiator	Includes (1) control module with 24-slot I/E station, (0) drives, and (100) slots enabled	Includes (1) control module with 24-slot I/E station, (0) drives, and (300) slots enabled	Includes (1) control module with 24-slot I/E station, (1) expansion module, (0) drives, and (700) slots enabled	Includes (1) control module with 24-slot I/E station, (3) expansion modules, (0) drives, and (1500) slots enabled	Includes (1) control module with 24-slot I/E station, (7) expansion modules, (0) drives, and (3000) slots enabled	Includes (1) control module with 24-slot I/E station, (11) expansion modules, (0) drives, and (5000) slots enabled
Drive technology supported	LTO-6 Ultrium 6650 or LTO-5 Ultrium 3280 or LTO-4 Ultrium 1840	LTO-6 Ultrium 6650 or LTO-5 Ultrium 3280 or LTO-4 Ultrium 1840	LTO-6 Ultrium 6650 or LTO-5 Ultrium 3280 or LTO-4 Ultrium 1840	LTO-6 Ultrium 6650 or LTO-5 Ultrium 3280 or LTO-4 Ultrium 1840	LTO-6 Ultrium 6650 or LTO-5 Ultrium 3280 or LTO-4 Ultrium 1840	LTO-6 Ultrium 6650 or LTO-5 Ultrium 3280 or LTO-4 Ultrium 1840
	A minimum of 1 drive maximum 96 drives. (12 drives per frame)	A minimum of 1 drive maximum 96 drives. (12 drives per frame)	A minimum of 1 drive maximum 96 drives. (12 drives per frame)	A minimum of 1 drive maximum 96 drives. (12 drives per frame)	A minimum of 1 drive maximum 96 drives. (12 drives per frame)	A minimum of 1 drive maximum 96 drives. (12 drives per frame)
Number of cartridge slots	100 slots enabled	300 slots enabled	700 slots enabled	1500 slots enabled	3000 slots enabled	5000 slots enabled



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Capacity LTO-6 (compression 2.5:1)	625 TB (LTO-6)	1.8 PB (LTO-6)	4.3 PB (LTO-6)	9.3 PB (LTO-6)	18.7 PB (LTO-6)	31.2 PB (LTO-6)
LTO-5/LTO-4 (compression 2:1)	300 TB (LTO-5),	900 TB (LTO-5),	2.1 PB (LTO-5),	4.5 PB (LTO-5),	9 PB (LTO-5),	15 PB (LTO-5),
	160 TB (LTO-4)	480 TB (LTO-4)	1.12 PB (LTO-4)	2.4 PB (LTO-4)	4.8 PB (LTO-4)	8 PB (LTO-4)
Transfer rate with LTO-6 drives (compression 2.5:1)	Varies depending on drive type and quantity of drives: LTO-6: 1.44 TB/hr per drive					
LTO-5/LTO-4 (compression 2:1)	LTO-5: 1.0 TB/hr per drive LTO-4: 864 GB/hr per drive					
Host interface	8 Gb Fibre Channel (FC) 4 Gb FC Depending on drive type					
Encryption capability	Advanced Encryption Standard (AES) 256-bit					
Form factor	Free-standing, each control module or expansion module is in a 19-inch rack form-factor					
Warranty	1-year parts exchange, 1-year labor, and 1-year onsite					

The total package

Software

HP Command View Tape Library software	<p>HP Command View Tape Library aggregates multiple HP Tape Libraries for centralized management. With the ESL G3 Library Management Console, it can:</p> <ul style="list-style-type: none"> • Manage existing ESL G3, EOL, and MSL libraries • Help monitor backup logs, check drive status, receive trouble alerts, and diagnose problems 	Optional
HP StoreEver ESL G3 Secure Manager	<p>StoreEver ESL G3 Secure Manager License provides an additional level of security to:</p> <ul style="list-style-type: none"> • Control access to the tape library by authorizing specific servers to access the library's drives and robotics • Increase backup reliability by blocking disruptive traffic from unauthorized hosts to the library 	Optional
HP StoreEver ESL G3 E-SKM Encryption Key License	<p>It is integrated with the HP Enterprise Secure Key Manager to deliver:</p> <ul style="list-style-type: none"> • Centralized encryption key management • Automatic policy-based key generation and management supporting key and cartridge granularity • Independent software vendor (ISV) transparent key archival and retrieval for multiple libraries extensible to emerging open standards • Strong auditable security for encryption keys • Hardened server appliance • Secure identity-based access administration and logging • Comprehensive backup and restore functionality for keys • Automatic multisite clustering, key replication, and failover designed for FIPS 140-2 validation 	Optional
HP StoreEver ESL G3 Automated Media Pool License	<p>The StoreEver ESL G3 Automated Media Pool (AMP), a "ghost" partition, acts as a flexible media pool where media can be assigned to or removed from partitions as needs change—all without forcing application reconfigurations.</p>	Optional
HP StoreEver ESL G3 Partitioning License	<p>It helps manage environments with mixed backup software applications; partitions (virtual libraries) can be created where each application is assigned to one or more partitions. These partitions are fixed, and applications mapped into one partition can't claim media and storage space from partitions not assigned to them.</p>	Optional
HP StoreEver ESL G3 KMIP Key Manager Client License	<p>It enables the library to request encryption keys from the SafeNet KeySecure 460 key manager, for encryption management.</p>	Optional
HP StoreEver ESL G3 Control Path Failover License	<p>It facilitates failover of the robotics control path if a cable or path failure is detected.</p>	Optional
HP StoreEver ESL G3 Data Path Failover License	<p>It achieves automatic failover between two fiber ports on each drive, if a cable or path failure is detected.</p>	Optional
HP StoreEver ESL TapeAssure Advanced License	<p>It provides predictive analytics for drive and media health and life, and performance advisor for drive usage and analysis. You can better manage the drives and media for more efficient performance.</p>	

HP Services

HP Technology Services has a robust portfolio of packaged lifecycle support solutions that enable you to improve HP StoreEver ESL G3 Tape Library support for better business outcomes.

Optimized Care

Delivers enhanced performance and near-continuous availability of crucial StoreEver ESL G3 Tape Library through deployment and proactive management practices with:

- HP Installation and Startup Service for HP Storage ESL, EOL, and MSL Tape Libraries
- HP Proactive Care 24x7; and, 20 credits per year
- Additional option: HP Proactive Care Personalized Support (once per Proactive Care support new environment), HP Personalized Support Additional Day, and additional 10 HP Proactive Select credits per year

Standard Care

Maintains high level of ESL G3 Tape Library availability along with expert help to cut the cost and complexity of implementing and supporting storage with:

- HP Installation and Startup Service for HP Storage ESL, EOL, and MSL Tape Libraries
- HP Proactive Care 24x7; Plus, 10 credits per year
- Additional option: HP Proactive Care Personalized Support (once per Proactive Care support new environment), HP Personalized Support Additional Day, and additional 10 HP Proactive Select credits per year

Basic Care

Delivers minimum recommended support service level with expert advice, implementation, and support with:

- HP Installation and Startup Service for HP Storage ESL, EOL, and MSL Tape Libraries
- HP Support Plus 24; Plus, 10 credits per year
- Additional option: 10 Proactive Select credits per year

Additional TS Service Options:

Discover, plan, and design

- HP Backup Recovery Efficiency Analysis
- HP Backup Recovery Impact Analysis
- HP Backup Recovery Modernization

Deploy and integrate

- HP Storage Data Migration Services
- HP Storage and Data Consultant Residency Service
- HP Proactive Select

If none of our support recommendations meet your needs, we can tailor a service solution for your unique support requirements. We bring deep expertise, proactive, and business-critical support, and a strong partner network—plus, a full set of infrastructure services designed to power a converged infrastructure. For more information, visit hp.com/go/storage.

Customize your IT lifecycle management, from acquisition of new IT, management of existing assets, and removal of unneeded equipment.

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Service and support

Customer technical training

Gain the skills you need with ExpertOne training and certification from HP. With HP Converged Storage training, you will accelerate your technology transition, improve operational performance, and get the best return on your HP investment. Our training is available when and where you need it, through flexible delivery options and a global training capability. hp.com/learn/storage

HP Factory Express

HP Factory Express provides customization and deployment services along with your storage and server purchases. You can customize hardware to your exact specifications in the factory—helping speed deployment. hp.com/go/factoryexpress

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