HPE StoreEver ESL G3 Tape Library

Meet enterprise-wide data growth efficiently

HPE StoreEver 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 192 drives, you can consolidate and store up to 180 PB (with data compression at 2.5:1) of enterprise data.

Supporting data growth is only part of the story. HPE 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 HPE StoreEver TapeAssure enable predictive and proactive monitoring of tape drives, media, and library health. Further, Federal Information Processing Standard (FIPS) 140-2 compliant hardware data encryption solutions provide additional data security for supported devices.

Watch this video to learn more about HPE StoreEver ESL G3 Tape Library high availability.

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 192 HPE LTO-7, LTO-6, or LTO-5 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 180 PB (with data compression at 2.5:1) with LTO-7 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 logical unit number (LUN) control failover

- Achieve near-continuous data access with active dual-robotic capability

- Protect data against costly data breach with 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 total cost of ownership and management burden

- HPE Command View for Tape Libraries software eases data protection with remote management, and diagnostics for multiple tape libraries from a single pane of glass.

- HPE 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 dynamically reallocating partition space as data storage requirements grow.

- HPE Data Verification can periodically scan infrequently accessed LTO tapes to verify health of tape cartridges as well as the data stored on tapes to reduce the risk of restore failure.

Technical specifications

PRODUCT NAME	HPE STOREEVER ESL G3 100 SLOT BASE MODULE TAPE LIBRARY	HPE STOREEVER ESL G3 300 SLOT BASE MODULE TAPE LIBRARY	HPE STOREEVER ESL G3 700 SLOT BASE MODULE TAPE LIBRARY	HPE STOREEVER ESL G3 1500 SLOT BASE MODULE TAPE LIBRARY	HPE STOREEVER ESL G3 3000 SLOT BASE MODULE TAPE LIBRARY	HPE 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-7 Ultrium 15750 or LTO-6 Ultrium 6650 or LTO-5 Ultrium 3280 Max 192 drives library, (18 drives per control frame, 24 drives per expansion frame)	LTO-7 Ultrium 15750 or LTO-6 Ultrium 6650 or LTO-5 Ultrium 3280 Max 192 drives library, (18 drives per control frame, 24 drives per expansion frame)	LTO-7 Ultrium 15750 or LTO-6 Ultrium 6650 or LTO-5 Ultrium 3280 Max 192 drives library, (18 drives per control frame, 24 drives per expansion frame)	LTO-7 Ultrium 15750 or LTO-6 Ultrium 6650 or LTO-5 Ultrium 3280 Max 192 drives library, (18 drives per control frame, 24 drives per expansion frame)	LTO-7 Ultrium 15750 or LTO-6 Ultrium 6650 or LTO-5 Ultrium 3280 Max 192 drives library, (18 drives per control frame, 24 drives per expansion frame)	LTO-7 Ultrium 15750 or LTO-6 Ultrium 6650 or LTO-5 Ultrium 3280 Max 192 drives library, (18 drives per control frame, 24 drives per expansion frame
Number of cartridge slots	100 slots enabled	300 slots enabled	700 slots enabled	1,500 slots enabled	3,000 slots enabled	5,000 slots enabled
Capacity LTO-7 (compression 2.5:1)	1.5 PB (LTO-7)	4.5 PB (LTO-7)	10.5 PB (LTO-7)	22.5 PB (LTO-7)	45 PB (LTO-7)	75 PB (LTO-7)
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)
Capacity LTO-5 (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)

Technical specifications (continued)

PRODUCT NAME	HPE STOREEVER ESL G3 100 SLOT BASE MODULE TAPE LIBRARY	HPE STOREEVER ESL G3 300 SLOT BASE MODULE TAPE LIBRARY	HPE STOREEVER ESL G3 700 SLOT BASE MODULE TAPE LIBRARY	HPE STOREEVER ESL G3 1500 SLOT BASE MODULE TAPE LIBRARY	HPE STOREEVER ESL G3 3000 SLOT BASE MODULE TAPE LIBRARY	HPE STOREEVER ESL G3 5000 SLOT BASE MODULE TAPE LIBRARY
Transfer rate with LTO-7/LTO-6 drives (compression 2.5:1) and LTO-5 (compression 2:1)	Varies depending on drive type and quantity of drives: LTO-7: 2.52 TB/hr per drive LTO-6: 1.44 TB/hr per drive LTO-5: 1.0 TB/hr per drive					
Host interface	8 Gb Fibre Channel (FC)					
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

HPE Command View for Tape Libraries software	HPE Command View for Tape Libraries aggregates multiple HPE Tape Libraries for centralized management. • Manage existing ESL G3 and MSL2024, 4048, or 6480 tape libraries • Monitor backup logs, check drive status, receive trouble alerts, and diagnose problems	Optional
HPE StoreEver ESL G3 TapeAssure Advanced License	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.	Optional
HPE StoreEver ESL G3 Data Verification License	HPE StoreEver Data Verification software provides the ability to periodically scan and validate the quality of data on LTO tape cartridges stored in a tape archive. Periodically scan infrequently accessed tapes stored in a vault or inside a tape library to verify the data integrity so that a successful restore is possible when that critical business data is needed. StoreEver Data Verification software is fully integrated into the HPE StoreEver Command View for Tape Libraries software and HPE StoreEver TapeAssure Advanced software providing Single pane of glass management, multi-library manageability, and proactive notification of health, usage, and life of the library, media, and tape drives.	Optional
HPE StoreEver ESL G3 Secure Manager License	StoreEver ESL G3 Secure Manager License provides an additional level of security to: • 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
HPE StoreEver ESL G3 ESKM Encryption Key License	Integrated with the HPE Enterprise Secure Key Manager (ESKM) to deliver: • 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 • protected 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
HPE StoreEver ESL G3 Automated Media Pool License	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 without forcing application reconfigurations.	Optional
HPE StoreEver ESL G3 Partitioning License	Manage environments with mixed backup software applications; ESL G3 partitions (virtual libraries) can be created where each application is assigned to one or more partitions. These partitions are fixed, and applications mapped to one partition can't claim media and storage space from partitions not assigned to them.	Optional
HPE StoreEver ESL G3 KMIP Key Manager Client License	Enables the library to request encryption keys from the HPE ESKM 4.0 (operating in KMIP 1.2 mode) or SafeNet KeySecure 460 key manager for encryption management.	Optional
HPE StoreEver ESL G3 LTO-5/LTO-6 Ultrium Control Path Failover License	Facilitates failover of the robotics control path if a cable or path failure is detected.	Optional
HPE StoreEver ESL G3 LTO-5/LTO-6 Ultrium Data Path Failover License	Achieves automatic failover between two fiber ports on each drive, if a cable or path failure is detected.	Optional
HPE StoreEver ESL G3 LTO-7 Path Failover License	Provides data path failover between the two fibre channel ports on each LTO-7 tape drive and failover for the control path to the library robotics	Optional

HPE Technology Services

Expert HPE storage consultants and service professionals sit down with you and your team to map your storage needs. Not only can we help you accelerate implementation and reduce deployment risk, but we can also help you realize the full value of your storage purchases as you transform storage for the New Style of IT.

Advise, transform, and integrate
Navigate through the complexities of storage, backup, archive, disaster recovery, and Big Data with advisory, transformation, and integration consulting.

Deploy and implement
Access expertise to support deployment, operations, relocation, sanitization, and disposal, plus improvement-focused education.

Operate and support
Find the level of personalized, proactive, and simplified support right for your business.

Note

Specific service availability varies by product

Foundation Care
System-level IT hardware and software support delivers flexible coverage window and response time for more choice and simplicity.

Proactive Care
Combined reactive and proactive services provide easy-to-purchase, cost-efficient system-level support coupled with personalized expert advice and products connected to HPE to help prevent problems and reduce downtime.

HPE Proactive Care Advanced
Builds and incorporates on Proactive Care and also gives customers personalized technical and operational advice from an Assigned, local Account Support Manager for personalized technical collaboration, flexible access to specialist skills to help optimize business critical IT, and Enhanced Critical Incident Management to help so the business is not affected if there is a system or device outage.

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

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

Datacenter Care
Get the support you need to deploy, operate, and evolve your data center environment to be hybrid-cloud ready with single-point-of-accountability for HPE and others' product.

Get connected and get back to business—HPE Storage Technology Services provide the path to get your HPE Storage solutions and your business connected to HPE. Once connected, our experts are able to scan your system and run health checks, then use that data to create personalized reports and recommendations for actions to take to prevent problems and downtime.

To learn more, visit: hpe.com/services/storage

Learn more at
hpe.com/storage/eslg3

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