Have feedback on QuickSpecs? We're listening

Spectra TeraPack Media QuickSpecs

Because HPE offers a comprehensive data protection portfolio for Hybrid IT, it understands the requirements for current and next generation LTO Ultrium tape solutions. In particular, the importance of media reliability is providing a long-term home for archive data, as well as a final safeguard against natural disasters, network or power outages, human error, or malicious acts.

Spectra TeraPack Media is designed to make certain that customers have the most reliable and automated tape storage solution available. Our approach places the emphasis on ongoing enhancements and features that simplify virtually all aspects of the media management process.

Overview



Spectra TeraPack Media

Models

Description	SKU
Spectra TeraPack LTO-9 Ultrium 45TB RW Non Custom Labeled 10 Data Cartridges for Full Height Drives	R7C12A
Spectra TeraPack LTO-9 Ultrium 45TB RW Custom Labeled 10 Data Cartridges for Full Height Drives	R7C13A
Spectra TeraPack LTO-8 Ultrium 30TB RW Non Custom Labeled 10 Data Cartridges	Q2R69A
Spectra TeraPack LTO-8 Ultrium 30TB RW Custom Labeled 10 Data Cartridges	Q2R70A
Spectra TeraPack LTO-7 Ultrium 15TB RW Non Custom Labeled 10 Data Cartridges	Q1H01A
Spectra TeraPack LTO-7 Ultrium 15TB RW Custom Labeled 10 Data Cartridges	Q1H02A
Spectra TeraPack LTO-6 Ultrium 6.25TB BaFe RW Non Custom Labeled 10 Data Cartridges	Q1G95A
Spectra TeraPack LTO-6 Ultrium 6.25TB BaFe RW Custom Labeled 10 Data Cartridges	Q1G96A
Spectra TeraPack TS1170 50TB RW Non Custom Labeled 9 Data Cartridges	S3H34A
Spectra TeraPack TS1170 50TB RW Custom Labeled 9 Data Cartridges	S3H35A
Spectra TeraPack TS1160 JE Non Custom Labeled 9 Data Cartridges	R0R28A
Spectra TeraPack TS1160 JE Custom Labeled 9 Data Cartridges	R0R29A
Spectra TeraPack LTO Ultrium Cleaning 10 Cartridges	Q1H03A
Spectra TeraPack TS Series Cleaning 9 Cartridges	Q1H04A
Spectra TeraPack LTO Dust Cover	Q1H05A
Spectra TeraPack LTO Empty Tray No Cover or Media	Q1J40A
Spectra TeraPack TS Series Empty Tray No Cover or Media	Q1J41A
Spectra TeraPack T10000 Empty Tray No Cover or Media	Q2P43A

Standard Features

Why Buy Spectra TeraPack Media?

- All Spectra TeraPack Media is pre-initialised using RFID LTO-Cartridge Memory
- This CM flag is unique to Spectra TeraPack Media and integrates with advanced Media Lifecycle Management tools
  - MLM records up to 40 health statistics every time a tape is loaded
  - Combined with BlueScale software, you can manage, track and report every stage of an individual tape's usage, from creation to retirement, all within the same console
  - BlueScale reporting allows easy visibility of tapes with high error rates, even in multiple drives and partitions, allowing for their removal before they cause data corruption.
- MLM / BlueScale reporting is only available for pre-initialised Spectra TeraPack Media - e.g. it is not accessible using non- Spectra TeraPack Media
- Unique benefits of MLM enabled by TeraPack:
  - Reduce media-related errors
  - Monitor a tape's health at any point during its lifecycle
  - Leverage user-defined thresholds to protect critical data sets
  - Quickly identify overused and underused media
  - Identify when media should be retired
  - Know when tape has been used in unplanned locations
  - Simplify and improve troubleshooting
  - Track and monitor cleaning media's history

Warranty and Support

Includes a limited lifetime warranty, fully supported by a worldwide network of resellers and service providers as well as toll-free 24 X 7 technical phone support during the warranty period. For full details on warranty and support for pre-labeled media, please go to: https://www.hpe.com/us/en/contact-hpe.html

Reliable Archival Storage and Restore

- Only the highest quality media becomes Spectra TeraPack Media. This makes certain you have the most reliable and worry-free data protection possible.
- Spectra TeraPack Media also undergoes a unique 'Carbide Clean' process to remove any trace of debris that may have originated during manufacturing or transportation, giving you additional peace of mind that your system will run at peak performance.

Protection and Encryption

When combining Spectra TeraPack Media with Spectra's Enterprise tape library integrated BlueScale® Encryption Key Management, your data is protected with a straightforward, easily installed solution.

Standard Features

Intelligence and Verification

- Media Lifecycle Management (MLM) allows you to proactively manage your tape inventory through simple monitoring of over 40 health statistics.
- Spectra TeraPack Media assures data integrity using an integrated, intelligent and comprehensive set of Data Integrity Verification (DIV) tools when integrated with your tape library. PreScan verifies your tapes are safe prior to usage and QuickScan and FullScan verify your data has been properly written to tape.

Ease of Management and Installation

- Media is customized with individual tapes unwrapped and pre-applied barcode labels bundled in TeraPack containers, ready for bulk loading. A myriad of choices allows you to specify the exact number of tapes you require in custom or non-custom barcode sequences.
- An optional dust cover is available for off-site storage in archive.
- TeraPack architecture utilizes 3D space within the library frame increasing density per square foot. Multiple tape cartridges are grouped in a single container that is used throughout the library and beyond.
- Library robotics can transport a TeraPack within the library and select a requested tape from the TeraPack case. In this unique architecture, each TeraPack case equals 9 x Enterprise media or 10 x LTO media tape slots.
- A robot can move a bar-coded TeraPack case that contains 9 or 10 pieces of media in a single robotic move, while other tape libraries require 9 or 10 separate robotic moves to accomplish this task.
- Traditional libraries organize tapes one-tape-deep along the library chassis wall. The T950 library uses TeraPack cases to store tapes, with each TeraPack case extending into the library's interior. This provides HPE Tape Libraries with very high density, allowing more tapes in a given area than competitors' libraries.

CarbideClean®

The CarbideClean® process provides Spectra TeraPack users with extra peace of mind that they have the most reliable media - right from the very first time they load a tape into the drive. Carbide Cleaning removes any vestiges of microscopic debris from the tape surface, maximising the potential that every bit is written and helping to extend the life of your tape drive.

Related Hardware Options

Spectra T950® Tape Libraries

Meeting enterprise data growth challenges head-on, Spectra T950 Tape Libraries deliver enormous scalability to keep pace with unpredictable data growth. Choose from a range of base configurations and scale up to 10,020 LTO tape cartridges in increments of 10 slots or 7,615 TS11xx Technology tape cartridges in increments of 9 slots for capacity on demand. Incorporating between 1 and 120 tape drives you can consolidate and store up to 1.1 EB (compressed 3:1) using TS1170 Technology or 450 PB (compressed 2.5:1) using LTO-9 tape cartridges, of enterprise data. Learn more at: http://www.hpe.com/storage/t950

Spectra TFinity® ExaScale Tape Libraries

Meeting enterprise data growth challenges head-on, Spectra TFinity® ExaScale Tape Libraries deliver enormous scalability to keep pace with unpredictable data growth. Choose from a range of base configurations and scale up to 56,400 LTO-9 tape cartridges or 42,930 TS11xx Technology cartridges in increments of 10 LTO of 9 TS11xx Technology slots for capacity on demand. Incorporating between 1 and 144 tape drives you can consolidate and store up to 6.45 EB (compressed 3:1) using TS1170 Technology or 2.53 EB (compressed 2.5:1) using LTO-9 tape cartridges of enterprise data. Learn more at: http://www.hpe.com/storage/tfinity

Technical Specifications

LTO Ultrium Spectra TeraPack Media				
	LTO-6 Ultrium	**LTO-7 Ultrium**	**LTO-8 Ultrium**	**LTO-9 Ultrium**
Part Number	Q1G95A / Q1G96A	Q1H01A/ Q1H02A	Q2R69A / Q2R70A	R7C12A / R7C13A
Quantity per TeraPack	10 cartridges per TeraPack			
Magnetic Material	Barium Ferrite	Barium Ferrite	Barium Ferrite	Barium Ferrite
Recording Density	385 kbits/inch	485 kbits/inch	525 kbits/inch	545 kbits/inch
Number of Data Tracks	2,176	3,584	6,656	8,960
Recording Capacity (Native/Compressed)	2.5/6.25 TB	6/15 TB	12/30 TB	18/45 TB
Tape Width (mm)	12.65	12.65	12.65	12.65
Tape Thickness (um)	6.4	5.6	5.6	5.5 (maximum)
Tape Length (m)	846	960	960	1035
External Dimensions	1.8 x 4.45 x 4.37 in (2.1 x 11.3 x 11.1 cm)	1.8 x 4.45 x 4.37 in (2.1 x 11.3 x 11.1 cm)	1.8 x 4.45 x 4.37 in (2.1 x 11.3 x 11.1 cm)	1.8 x 4.45 x 4.37 in (2.1 x 11.3 x 11.1 cm)
Cartridge Weight	0.63 lb (285.2 g)	0.63 lb (285.2 g)	0.63 lb (285.2 g)	0.63 lb (285.2 g)
Archival Life	30 years, if stored at the “Archival Life Recommended Storage” conditions			
Recommended Storage Environment	60°F to 90°F (16°C to 32°C) 20% to 80% Relative Humidity (RH)			59°F to 77°F (15°C to 25°C) 20% to 80% RH
Recommend Operating Environment	50°F to 113°F (10°C to 45°C) 20% to 80% RH			
Allowable Environment	Same as the Recommended Operating and Storage Environments			59°F to 95°F (15°C to 35°C) 20% to 80% RH
Archival Life Recommended Storage Conditions	41°F to 73°F (5°C to 23°C) 20% to 50% RH			59°F to 77°F (15°C to 25°C) 20% to 80% RH

Technical Specifications

TS Series Technology Spectra TeraPack Media			
	TS1170 Non Custom TeraPack	**TS1170 Custom TeraPack**	**TS Series Maintenance TeraPack**
Part Number	S3H34A	S3H35A	Q1H04A
Format	TS1170	TS1170	
Media Format	Re-Writable	Re-Writable	
Quantity per Package	9 cartridges per TeraPack		
Native Uncompressed Capacity	TS1170 50 TB	TS1170 50 TB	
Compressed Capacity	TS1170 150 TB	TS1170 150 TB	
Tape Length	1,337 m	1,337 m	318 m
Tape Width (Metric)	12.65 mm	12.65 mm	12.65 mm
Tape Thickness	4.1 um	4.1 um	5.0 um
Archival Storage Life	30 years		
Warranty	Limited Lifetime Warranty		
Environmental Operating Temperature	16 to 25°C (61 to 77°F)		
Relative Humidity	20-50%		
Max Wet Bulb Temperature	22°C (72°F)		

Summary of Changes

Date	Version History	Action	Description of Change
21-Sep-2026	Version 9	Changed	QuickSpecs maintenance updates.
02-Feb-2026	Version 8	Changed	HPE Rebranding applied
		Removed	Obsolete SKUs removed - Q1G99A, Q1H00A
05-Feb-2024	Version 7	Changed	Overview, Standard Features, Related Options and Technical Specifications sections were updated. New TS1170 information was added
18-July-2022	Version 6	Changed	QS name was updated
04-Oct-2021	Version 5	Changed	Overview and Technical Specifications sections were updated.
06-Jul-2020	Version 4	Changed	QuickSpecs layout was updated, and Branding Refresh was applied.
06-Apr-2020	Version 3	Changed	QuickSpecs layout was updated
06-May-2019	Version 2	Changed	New TS1160 information Overview, Technical Specifications and Related Options sections were updated.
05-Feb-2018	Version 1	Added	New QuickSpecs.

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