HP Bar Code Labelled Media for Tape Automation

The super-fast scanning equipment installed in tape libraries relies on high resolution, computer-generated bar codes to ensure the readability of the labels each and every time.

Simply put, if your automation device or vault bar code reader can't read the label, it can't find the tape. This could cause backup disruption or create delays when it comes to finding cartridges in your vault.

All HP bar code labels undergo extreme testing to ensure maximum reliability and performance.
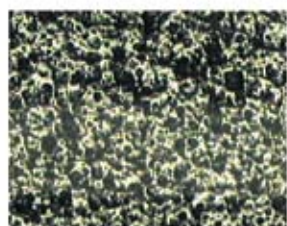
Many factors, most not visible to the naked eye, can affect the quality and performance of a bar code label. We use advanced software, unique to HP's Tape Automation R&D group, to test our bar code labels, valuating their performance in demanding, split-second automation environments. If they work perfectly in our laboratories, they will work perfectly in your tape library or autoloader.

(20X magnification)

High quality engineered label from HP with sharp black & white differentiation.

(20X magnification)

Label from an alternative media supplier showing poor differentiation between black & white segments.

HP Custom Labelled Media

HP Custom Labelled Media (CPLM) is available for HP LTO Ultrium, DLT and Super DLTtape media in convenient 20-cartridge packs, with minimum order quantities of 100 cartridges. Furthermore, HP's best selling LTO Ultrium products are also available in environmentally friendly Ecopacks.

The advantage of HP CPLM is that media can be ordered with a customer-specified sequence for the bar code labels. As long as the sequence is allowed by the format rules, any combination of characters can be requested. For a comprehensive overview of labels and label formats, please refer to HP's white paper on automation bar code labels at ww.hp.com/go/storagemedia.

With HP CPLM, you also:

- Use your resources more efficiently. IT staff don't have to spend hours peeling, sticking and attaching bar code labels to individual data cartridges. If an 800-slot tape library takes up to six hours to label by hand, imagine how much time and money you could save?

- Take care of cleaning cartridges. 5 free cleaning cartridge labels come with every box of 20 HP Custom Labelled data cartridges.

- Buy everything you need from one supplier. Media and labels no longer need to be purchased from different places. Your HP Reseller can supply CPLM like ordinary tape media.

- Benefit from industry standards. All bar code labels from HP use industry-leading Tri-Optic technology and conform to Code 39 (sometimes referred to as Code 3-of-9) symbology, a widely used international standard.

- Ensure trouble free backup. HP automation barcode labels are applied professionally in a clean and controlled environment to prevent backup disruptions. Every label is guaranteed not to peel, distort, reflect or fade.

Custom Labelled Media Ecopacks

Whilst it's important to ensure your data is protected from dust and debris, if you don't need a secure individual container for long term archival storage of your tapes then consider the following statistic.

Each individual LTO Ultrium media cartridge case takes 2.73KWh of energy to make. A customer purchasing 1,000 tapes is "buying" 2,700 KWh of energy – the equivalent to running a 50" HD TV for 8 hours a day for FIVE years.

HP offers you an alternative. You can reduce the environmental impact using HP LTO Ultrium Ecopack media and limit the amount of additional packaging. Reducing superfluous packaging also reduces the effort taken to load a tape library with media, saving valuable time for the operator.

As with standard CPLM, label sequences can be specified online with a minimum order quantity of 100 tapes.

HP Non Custom Labelled Media

Non-Custom HP labelled media can be ordered 'off the shelf' and delivered within a couple of days from any HP reseller.

HP Non-Custom labelled media is supplied with a high quality Tri-Optic barcode label attached to each cartridge and is ideal if you don't need to define an exact barcode sequence for each label.

• HP Non-Custom Labelled media is available for HP LTO Ultrium and HP Super DLTtape II and shipped in boxes of 20 data cartridges.

• Each box of 20 labelled cartridges is 'in sequence' (eg. From 1 to 20) for ease of use. Different boxes purchased at the same time may not be consecutive (eg. 1 to 20, 80 to 100).

• Each individual barcode sequence is predetermined by HP and is guaranteed to be unique (no duplicate codes).

• Tested to extremes: both cartridge and label are exhaustively tested for maximum reliability in demanding automation environments.

• As with CPLM, 5 free cleaning cartridge labels come with every box of 20 HP Noon Custom Labelled data cartridges.

HP Automation Barcode Labels Packs

• Want to attach your own labels? Pre-sequenced packs of HP Automation Barcode Labels will help to file tapes in perfect order. Just take extra special care to position them accurately.

• Label packs are available for all LTO Ultrium, SDLT, DLT and AIT media in packs of 100 with 10 cleaning cartridge labels. No two packs of labels are ever the same and all the labels in the pack are consecutive.

Ordering HP Custom Labelled Media in Europe, Middle East and Africa (EMEA)

This section only applies to customers purchasing within Europe, Middle East and Africa (EMEA). Non-EMEA customers should consult their nearest authorised HP reseller or visit www.hp.com/go/storagemedia for more information.

HP Custom Labelled media (both standard and Ecopack) of HP LTO Ultrium, DLT and SDLT media can be ordered in convenient multiples of 20 units with a minimum order quantity of 100 cartridges. Precise ordering is vital to make sure you get the correct labels, in the correct sequence. And with our online label specification process it couldn't be simpler.

Just go to HP's bar code label specification web site at www.hpstoragemedia.com/plm and follow these five simple steps:

1. Select Specify Labels from the Custom Labelled Media link. Choose your technology (LTO, SDLT etc), your tape type (RW or WORM) and your packaging type (Standard or Ecopack).

2. Select the label that you would like on your media.

3. Define the sequences you want on the labels. Multiple sequences can be ordered for one label/ media combination on the same LOID if required. The web site maintains a history of your previous label requests. This allows you to continue previous sequences easily. You may, of course create completely different sequences with each new visit. Submit your order and receive your unique Label Order ID number (LOID) by email.

4. Place your order with your reseller, making sure that you give them the LOID with your product type and quantity information. **This information is vital because it enables us to track the production and delivery of your tapes, ensuring that you receive the correct order from our factory. Without the LOID, we cannot process your order so please make sure your reseller is aware of this important detail!**

5. Await delivery of your HP Custom Labelled media. Because this product is built to order, the lead time is typically around 10-15 working days.

Label formats

HP recommends the following formats for each type of technology:

Drive Type	Data Cartridge	Cleaning Cartridge	Diagnostic Cartridge
DLT1 and VS80	nnnnnB	CLNnnnC or CLNnnn	DG nnnC
DLT (type IV media)	nnnnnn	CLNnnnS	DG nnnS
SDLT-1	nnnnnS	CLNnnnS	DG nnnS
LTO Gen 1	nnnnnnL1	CLNvnnCU or CLNvnnL1*	DV vnnL1*
LTO Gen 2	nnnnnnL2	CLNvnnCU or CLNvnnL2*	DV vnn L2*
LTO Gen 3 RW	nnnnnnL3	CLNvnnCU or CLNvnnL3*	DV vnn L3*
LTO Gen 3 WORM	nnnnnnLT	CLNvnnCU or CLNvnnL3*	DV vnn L3*
LTO Gen 4 RW	nnnnnnL4	CLNvnnCU or CLNvnnL4*	DV vnn L4*
LTO Gen 4 WORM	nnnnnnLU	CLNvnnCU or CLNvnnL4*	DV vnn L4*

* For ESL libraries the LTO cleaning cartridges must be of the form CLNvnnL1 or CLNvnnL2. For HP Surestore 10/180 and 20/700 libraries the LTO cleaning cartridges must be of the form CLNvnnCU. Gen 1, Gen 2, Gen 3 and Gen 4 LTO products use the same cleaning cartridge. No diagnostic cartridges currently exist for LTO.

Ordering Information

Product	Must be ordered from HP in multiples of	Compressed Capacity*	Part Number
HP LTO-1 Ultrium 200 GB Custom Labelled Data Cartridge (Minimum Order = 100 Cartridges)	5**	200 GB	HP C7971AL
HP LTO-1 Ultrium 200 GB Non-Custom Labelled Data Cartridge	1	200 GB	HP C7971AN
HP LTO-2 Ultrium 400 GB Custom Labelled Data Cartridge (Minimum Order = 100 Cartridges)	5**	400 GB	HP C7972AL
HP LTO-2 Ultrium 400 GB Ecopack Custom Labelled Data Cartridge (Minimum Order = 100 Cartridges)	5**	400 GB	HP C7972AC
HP LTO-2 Ultrium 400 GB Non-Custom Labelled Data Cartridge	1	400 GB	HP C7972AN
HP LTO-3 Ultrium 800 GB RW Custom Labelled Data Cartridge (Minimum Order = 100 Cartridges)	5**	800 GB	HP C7973AL
HP LTO-3 Ultrium 800 GB WORM Custom Labelled Data Cartridge (Minimum Order = 100 Cartridges)	5**	800 GB	HP C7973WL
HP LTO-3 Ultrium 800 GB Ecopack Custom Labelled Data Cartridge (Minimum Order = 100 Cartridges)	5**	800 GB	HP C7973AC
HP LTO-3 Ultrium 800 GB Non-Custom Labelled Data Cartridge	1	800 GB	HP C7973AN
HP LTO-4 Ultrium 1.6 TB RW Custom Labelled Data Cartridge (Minimum Order = 100 Cartridges)	5**	1.6 TB	HP C7974AL
HP LTO-4 Ultrium 1.6 TB WORM Custom Labelled Data Cartridge (Minimum Order = 100 Cartridges)	5**	1.6 TB	HP C7974WL
HP LTO-4 Ultrium RW 1.6 TB Ecopack Custom Labelled Data Cartridge (Minimum Order = 100 Cartridges)	5**	1.6 TB	HP C7974AC
HP LTO-4 Ultrium RW 1.6 TB Non-Custom Labelled Data Cartridge	1	1.6 TB	HP C7974AN
HP DLTtape IV Custom Labelled Data Cartridge (Minimum Order = 100 Cartridges)	5**	40 GB/80 GB	HP C5141AL
HP Super DLTtape Custom Labelled Data Cartridge (Minimum Order = 100 Cartridges)	5**	220 GB/320 GB	HP C7980AL
HP Super DLTtape II Custom Labelled Data Cartridge (Minimum Order = 100 Cartridges)	5**	600 GB	HP C2020AL
HP Super DLTtape II Non-Custom Labelled Data Cartridge	1	600 GB	HP C2020AN
HP LTO-1 Ultrium Automation Bar Code Labels	1	n/a	HP Q2001A
HP LTO-2 Ultrium Automation Bar Code Labels	1	n/a	HP Q2002A
HP LTO-3 Ultrium RW Automation Bar Code Labels	1	n/a	HP Q2007A
HP LTO-3 Ultrium WORM Automation Bar Code Labels	1	n/a	HP Q2008A
HP LTO-4 Ultrium RW Automation Bar Code Labels	1	n/a	HP Q2009A
HP LTO-4 Ultrium 1.6 TB WORM Bar Code Label Pack	1	n/a	HP Q2010A
HP DLTtape IV Automation Bar Code Labels	1	n/a	HP Q2004A
HP Super DLTtape Automation Bar Code Labels	1	n/a	HP Q2003A
HP Super DLTtape II Automation Bar Code Labels	1	n/a	HP Q2006A
HP AIT Automation Bar Code Labels	1	n/a	HP Q2005A

* All capacities and transfer rates quoted as typical use a 2:1 compression ratio, this may vary since compression is data dependent.
**Minimum order quantity 5 units (1 unit = 20 cartridges, minimum order of 5 units = 100 cartridges).