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HP BAR CODE LABELLED MEDIA GUIDE

You may not see the difference between a precision-engineered HP bar code or RFID label and one printed off on a desktop printer. But your tape library can!

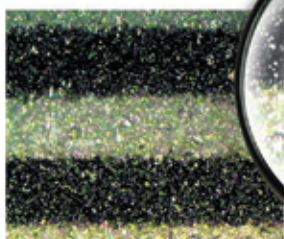
The super-fast scanning equipment installed in tape libraries relies on high resolution, computer-generated bar codes to ensure the readability of the labels each and every time.

It's simple. If your automation device or vault bar code reader can't read the label, it can't find the tape. Result? Backup disruption or delays while trying to find cartridges in your vault.

All HP bar code labels undergo extreme testing to ensure maximum reliability and performance.

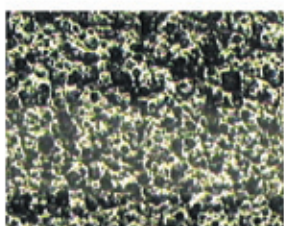
Many factors, most not visible to the naked eye, can affect the quality and performance of a bar code label. We use advanced software, unique to HP's Tape Automation R&D group, to test our bar code labels, evaluating their performance in demanding, split-second automation environments. If they work perfectly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

(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.



RFID: Track your data globally, in real time

HP Storage Media RFID Labels for HP LTO Ultrium data cartridges enable you to track your data assets wirelessly in real time, anywhere in the world, radically reducing the risk of data loss and theft. Instead of laboriously scanning each cartridge individually, you can scan a whole 20-cartridge carton in under two seconds, at a range of up six feet. RFID Labels can be written to as well as read: you can keep changing what it says on the label to identify the data inside.



HP Custom Labelled Media

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

You can specify your own sequence for the bar code labels, using any character combination that complies with the format rules. Full details of labels and label formats can be found in HP's white paper on automation bar code labels at www.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.
- Get five free cleaning cartridge labels with every box of 20 HP Custom Labelled tapes.
- Benefit from the latest RFID wireless technology. RFID-labelled, LTO Ultrium cartridges scan fast and can be tracked anywhere in the world. RFID labels can be rewritten to reflect the changing contents of your cartridges over time.
- Buy everything you need from one supplier. Your HP Reseller can supply CPLM just as easily as ordinary tape media.
- Benefit from industry standards. All HP bar code labels use industry-leading Tri-Optic technology and the widely used international standard symbology Code 39 (or Code 3-of-9).
- Ensure trouble free backup. HP automation barcode labels are applied professionally in a clean and controlled environment to prevent backup disruptions. Labels will not peel, distort, reflect or fade.

Custom Labelled Media Ecopacks

HP LTO Ultrium Ecopack media reduces your environmental footprint, but still keeps your data safe from dust and debris. Eliminating unnecessary packaging cuts up to 2.73Kwh of manufacturing energy for every individual LTO Ultrium media cartridge case. 1,000 individually cased cartridges equates to 2,700 KWh of energy – enough to run a 50-inch HDTV for eight hours a day for five years.

Ecopack media also takes less effort and time to load into the tape library with media so you save time and make your data centre more efficient.

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.

The media comes 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 DLTape II and shipped in boxes of 20 data cartridges.
- Choice of standard or RFID rewritable bar code labels for HP LTO Ultrium media.
- 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 guaranteed unique (no duplicate codes).
- Tested to extremes: both cartridge and label are exhaustively tested for maximum reliability in demanding automation environments.
- Five free cleaning cartridge labels come with every box of 20 HP Non-Custom Labelled data cartridges.



HP Automation Barcode Labels Packs

Pre-sequenced packs of HP Automation Barcode Labels will help to file tapes in perfect order. Just be careful 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)

All HP Custom Labelled media can be ordered in convenient 20-unit packs with a minimum order quantity of 100 cartridges. Our online label specification process makes it quick and simple to order the correct labels, in the correct sequence. 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 media technology (LTO, SDLT etc), your tape type (RW or WORM), your label type (standard or RFID) 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.
4. Multiple sequences can be ordered for one label/media combination on the same LOID if required.
5. The web site keeps a record of your orders, so that you can easily continue previous sequences. You may, of course create completely different sequences every time you order.
6. Submit your order to receive your unique Label Order ID number (LOID) by email.
7. Place your order with your reseller, making sure that you give them the LOID with your product type and quantity information. This is vital for us to track the production and delivery of your tapes, and make sure you get exactly what you order. We cannot process your order without the LOID so please make sure your reseller is aware of this important detail!
8. Allow up to 15 working days for your order to arrive (HP Custom Labelled media is built to order).



Ordering outside EMEA? Please contact your nearest authorised HP reseller or visit www.hp.com/go/storagemedia for more information.

Label formats

HP recommends the following formats for each type of technology:

Drive Type	Data Cartridge	Cleaning Cartridge	Diagnostic Cartridge
DLT1 and VS80	nnnnnnB	CLNnnnC or CLNnnn	DG nnnC
DLT (type IV media)	nnnnnn	CLNnnnC or CLNnnn	DG nnnC
SDLT-1	nnnnnnS	CLNnnnS	DG nnnS
SDLT-2	nnnnnnS2	CLNnnnS	DG nnnS
LTO Gen 1	nnnnnnL1	CLNvnnCU or CLNvnnL1 *	DG vnnL1 **
LTO Gen 2	nnnnnnL2	CLNvnnCU or CLNvnnL1 *	DG vnnL2 **
LTO Gen 3 RW	nnnnnnL3	CLNvnnCU or CLNvnnL1 *	DG vnnL3 **
LTO Gen 3 WORM	nnnnnnLT	CLNvnnCU or CLNvnnL1 *	DG vnnL3 **
LTO Gen 4 RW	nnnnnnL4	CLNvnnCU or CLNvnnL1 *	DG vnnL4 **
LTO Gen 4 WORM	nnnnnnLU	CLNvnnCU or CLNvnnL1 *	DG vnnL4 **
LTO Gen 5 RW	nnnnnnL5	CLNvnnCU or CLNvnnL1 *	DG vnnL5 **
LTO Gen 5 WORM	nnnnnnLV	CLNvnnCU or CLNvnnL1 *	DG vnnL5 **

Where nnnnnn represents any combination of alpha and numeric characters (capital letter A through Z and numbers 0 through 9) except any specifically reserved for other uses (such as CLN and DG).

* 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 to Gen 5 LTO products use the same cleaning cartridge.

** No diagnostic cartridges currently exist.



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Ordering Information

Product	Must be ordered from HP in multiples of	Compressed Capacity*	Part Number
HP LTO-1 Ultrium Labelled Data Cartridges			
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 Labelled Data Cartridges			
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 Eco Pack 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 Labelled Data Cartridges			
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 C7973VL
HP LTO-3 Ultrium 800 GB Eco Pack Custom Labelled Data Cartridge (Minimum Order = 100 Cartridges)	5**	800 GB	HP C7973AC
HP LTO-3 Ultrium 800 GB RW RFID Custom Labelled Data Cartridge (Minimum Order = 100 Cartridges)	5**	800 GB	HP C7973AF
HP LTO-3 Ultrium 800 GB RW RFID Eco Pack Custom Labelled Data Cartridge (Minimum Order = 100 Cartridges)	5**	800 GB	HP C7973AK
HP LTO-3 Ultrium 800 GB RW RFID Non-Custom Labelled Data Cartridge	1	800 GB	HP C7973AJ
HP LTO-3 Ultrium 800 GB Non-Custom Labelled Data Cartridge	1	800 GB	HP C7973AN
HP LTO-4 Ultrium Labelled Data Cartridges			
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 C7974VL
HP LTO-4 Ultrium 1.6 TB RW Eco Pack Custom Labelled Data Cartridge (Minimum Order = 100 Cartridges)	5**	1.6 TB	HP C7974AC
HP LTO-4 Ultrium 1.6 TB RW RFID Custom Labelled Data Cartridge (Minimum Order = 100 Cartridges)	5**	1.6 TB	HP C7974AF
HP LTO-4 Ultrium 1.6 TB RW RFID Eco Pack Custom Labelled Data Cartridge (Minimum Order = 100 Cartridges)	5**	1.6 TB	HP C7974AK
HP LTO-4 Ultrium 1.6 TB RW RFID Non-Custom Labelled Data Cartridge	1	1.6 TB	HP C7974AJ
HP LTO-4 Ultrium 1.6 TB RW Non-Custom Labelled Data Cartridge	1	1.6 TB	HP C7974AN
HP LTO-5 Ultrium Labelled Data Cartridges			
HP LTO-5 Ultrium 3 TB RW Custom Labelled Data Cartridge (Minimum Order = 100 Cartridges)	5**	3 TB	HP C7975AL
HP LTO-5 Ultrium 3 TB WORM Custom Labelled Data Cartridge (Minimum Order = 100 Cartridges)	5**	3 TB	HP C7975VL
HP LTO-5 Ultrium 3 TB RW Eco Pack Custom Labelled Data Cartridge (Minimum Order = 100 Cartridges)	5**	3 TB	HP C7975AC
HP LTO-5 Ultrium 3 TB RW RFID Custom Labelled Data Cartridge (Minimum Order = 100 Cartridges)	5**	3 TB	HP C7975AF
HP LTO-5 Ultrium 3 TB RW RFID Eco Pack Custom Labelled Data Cartridge (Minimum Order = 100 Cartridges)	5**	3 TB	HP C7975AK
HP LTO-5 Ultrium 3 TB RW RFID Non-Custom Labelled Data Cartridge	1	3 TB	HP C7975AJ
HP LTO-5 Ultrium 3 TB RW Non Custom Labelled Data Cartridge	1	3 TB	HP C7975AN
HP DLT and SDLT Labelled Data Cartridges			
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 Automation Bar Code Labels			
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 WORM Bar Code Label Pack	1	n/a	HP Q2010A
HP LTO-5 Ultrium RW Automation Bar Code Labels	1	n/a	HP Q2011A
HP LTO-5 Ultrium WORM Automation Bar Code Labels	1	n/a	HP Q2012A
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).

www.hp.com/go/storagemedia

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Produced in the U.K. March 2011 4AA3-3369EEE

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