



performance



## hp StorageWorks MSL6000 series Ultrium tape libraries



hp StorageWorks MSL6030  
Ultrium tape library



hp StorageWorks MSL6060  
Ultrium tape library

### what's new

- **increased performance:** SCSI Ultra 3 library takes advantage of the full performance available from the HP StorageWorks Ultrium 460 tape drive
- **auto-power-on:** allows user to select whether the library will automatically reboot in the event of a power failure

The HP StorageWorks MSL6000 series Ultrium tape libraries offers performance and investment protection. Designed to maximize the performance of the HP StorageWorks Ultrium 460 tape drive, the MSL series Ultrium tape library provides unparalleled flexibility. The MSL series Ultrium tape library can be scaled with other MSL tape libraries using a pass-through mechanism for up to 16 drives and 240 slots; allowing a single library to grow and change with capacity and technology needs. In addition, the MSL6000 series Ultrium tape libraries are easily managed through an intuitive GUI control panel and integrated remote web management.

The MSL6000 series Ultrium tape libraries come in 5U and 10U form factors, both offering the highest storage density in their class. The 5U MSL6030 Ultrium tape library supports up to two Ultrium 460 tape drives and 30 cartridges per module. The 10U MSL6060 Ultrium tape library supports up to four Ultrium 460 tape drives and 60 cartridges per module and includes redundant power supplies. All MSL6000 series Ultrium tape libraries offer the option of embedded Fibre.

HP is the first in the industry to offer SCSI Ultra3 and hot-plug drives in the same library. This combined with superb scalability makes MSL6000 series Ultrium tape libraries an ideal fit in any data center.

### key features and benefits

- **high-performance:** SCSI Ultra 3 maximizes the throughput of your Ultrium 460 tape drives
- **scalable:** multi-unit stacking allows the library to grow with your storage requirements
- **flexible:** utilizing cPCI slots, the MSL6000 series Ultrium tape libraries can be configured to either Fibre Channel or LVDS
- **reliable:** tape libraries provide consistent backup and automatically change tapes
- **manageable:** user-friendly GUI control panel and web interface make library management easy
- **compact:** 5U and 10U modules offer the highest storage density in their class
- **affordable:** buy only the storage you need now and add more later
- **evolutionary:** drives can be upgraded as technology progresses
- **compatible:** MSL6000 series Ultrium tape libraries work with industry leading servers, operating systems, and backup software

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easily managed

## technical specifications

	MSL6030 Ultrium tape library	MSL6060 Ultrium tape library
<b>number of drives per module</b>	0, 1, or 2	0 to 4
<b>number of slots per module</b>	30	60
<b>maximum storage capacity</b>	3 TB native	6 TB native
<b>weight</b>	1 drive: 70 lb/32 kg 2 drives: 75 lb/34 kg	2 drives: 101.6 lb/46.2 kg 4 drives: 117.2 lb/53.2 kg
<b>dimensions (h x w x d)</b>		
<b>tabletop</b>	10.0 x 19.0 x 31.3 in/25.4 x 48.3 x 79.4 cm	18.5 x 19.0 x 31.5 in/47.0 x 48.3 x 80.0 cm
<b>rackmount</b>	8.8 x 19.0 x 31.3 in/22.2 x 48.3 x 79.4 cm	17.5 x 19.0 x 31.5 in/44.5 x 48.3 x 80.0 cm
<b>power consumption</b>	90 to 140V AC @ 47 to 63 Hz 176 to 259V AC @ 47 to 63 Hz 180W (typical) 200W (maximum)	90 to 132V AC @ 47 to 63 Hz 180 to 264V AC @ 47 to 63 Hz 300W (typical) 360W (maximum)
<b>drive types</b>	Ultrium 460	
<b>maximum sustained transfer rate</b>	<ul style="list-style-type: none"> <li>• 30 MB/sec per drive (native)</li> <li>• 108 GB/hour per drive (native)</li> </ul>	
<b>supported media</b>	<ul style="list-style-type: none"> <li>• Ultrium Gen 2</li> <li>• Ultrium Gen 1 (capacity of 100 GB native)</li> </ul>	
<b>interface</b>	LVD Ultra3 SCSI or Fibre Channel	
<b>form factor</b>	rackmount (RM) or tabletop (TT)	
<b>reliability</b>	<ul style="list-style-type: none"> <li>• MSBF: 2,000,000 robot load/unload cycles</li> <li>• MTBF: 250,000 hours (100% duty cycle – does not include drives)</li> </ul>	
<b>environmental</b>	<b>temperature range</b>	<ul style="list-style-type: none"> <li>• 50° F to 95° F/10° C to 35° C (operating)</li> <li>• -40° F to 140° F/-40° C to 60° C (storage)</li> </ul>
	<b>humidity</b>	<ul style="list-style-type: none"> <li>• 10 to 80% @ 82° F/28° C (wet bulb) (operating)</li> <li>• 10 to 90% @ 82° F/28° C (wet bulb) (storage)</li> </ul>
<b>accessories</b>	<ul style="list-style-type: none"> <li>• MSL universal pass through mechanism — 304825-B21</li> <li>• MSL 5U pass through extender — 231824-B22</li> <li>• MSL Ultrium 460 upgrade drive — 330729-B21</li> <li>• e1200-160 Fibre Card for MSL – graphite — 330728-B21</li> <li>• MSL5000 system/e RM kit (HP racks) — 304826-B21</li> <li>• Alpha Rail Kit — 254795-001</li> </ul>	

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reliable

## technical specifications — continued

<b>supplies</b>	HP StorageWorks Ultrium 400 GB data cartridge (capacity of 200 GB native) — C7972A; Ultrium 200 GB data cartridge (capacity of 100 GB native) — C7971A; HP StorageWorks Ultrium universal cleaning cartridge — C7978A; power cord (US/Canada/Mexico) (shipped with all units) — 227099-001; power cord (Australia/China/New Zealand) — 227098-011; power cord (South East Asia/India) — 157220-AR1; power cord (Central Europe) — 157215-021; power cord, (United Kingdom/Hong Kong) — 157216-031; power cord, (Switzerland) — 157219-111; power cord (Italy) — 157217-061; power cord (Denmark) — 157218-081; power cord (Japan) — 139867-006
<b>safety</b>	<ul style="list-style-type: none"><li>• EN60950/IEC950, UL, CSA/cUL, CE, VDE/TUV, GOST,</li><li>• EMI, Class A FCC, C.I.S.P.R., ICES-003, CE, VCCI ; BSMI</li></ul>
<b>regulatory series number</b>	<ul style="list-style-type: none"><li>• MSL6030: ED1005 Class A</li><li>• MSL6060: ED1005A Class A</li></ul>
<b>supported operating systems</b>	<ul style="list-style-type: none"><li>• HP HP-UX</li><li>• Microsoft Windows NT/Windows 2000</li><li>• Novell NetWare</li><li>• SUN Solaris</li><li>• IBM AIX</li><li>• Linux Red Hat</li><li>• Linux SUSE</li></ul>
<b>supported servers in direct SCSI attach and enterprise backup solution</b>	<ul style="list-style-type: none"><li>• HP ProLiant servers</li><li>• HP-UX servers</li></ul>
<b>FC SAN configurations</b>	<ul style="list-style-type: none"><li>• HP AlphaServer system</li><li>• SUN Solaris</li><li>• IBM AIX</li></ul>

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flexibility

## ordering information

product number	product name	description
330728-B21	e1200-160 Fibre Card for MSL – graphite	for use in MSL6000 series Ultrium tape libraries
330729-B21	MSL6000 series Ultrium tape libraries LTO Gen2 add-on drive	
330731-B21	MSL6030 Ultrium tape library, 0-drive, LTO, LVDS, RM	
330731-B22	MSL6030 Ultrium tape library, 1-drive, LTO Gen2, LVDS, RM	
330731-B23	MSL6030 Ultrium tape library, 2-drive, LTO Gen2, LVDS, RM	
330731-B24	MSL6030 Ultrium tape library, 1-drive, LTO Gen2, Fibre, RM	
330731-B25	MSL6030 Ultrium tape library, 2-drive, LTO Gen2, Fibre, RM	
330788-B21	MSL6030 Ultrium tape library, 1-drive, LTO Gen2, LVDS, TT	
330788-B22	MSL6030 Ultrium tape library, 2-drive, LTO Gen2, LVDS, TT	
331196-B23	MSL6060 Ultrium tape library, 0-drive, LTO, LVDS, RM	
331196-B21	MSL6060 Ultrium tape library, 2-drive, LTO, LVDS, TT	
331196-B21	MSL6060 Ultrium tape library, 2-drive, LTO, LVDS, RM	
331196-B22	MSL6060 Ultrium tape library, 2-drive, LTO, Fibre, RM	

## what's included

Library unit (pre-configured with drives; US/Mexico/Canada power cord(s) – other regions order appropriate local power cord(s); documentation kit; EFIJS translation CD; Users Guide; diagnostic diskette/Software Guide; warranty card; safety card; driver CD; (1) LTO Ultrium 2 data cartridge; bar code labels (35 ea); SCSI terminators (1 per drive); SCSI jumper cable VHDCI; diagnostic cable (for PC attach)

*note: separate power cords may be necessary and will need to be purchased separately*

## warranty and support

**warranty features –**  
**hp service and support**

- one year parts exchange, one year next-day service
- increased warranty options are available, including three-year on-site, same day and three-year on-site, 24 x 7

## for more information

For more information on HP StorageWorks tape libraries, contact any of our worldwide sales offices or visit our web site at: [www.hp.com/go/automation](http://www.hp.com/go/automation)

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4/2003

5981-6544EN

