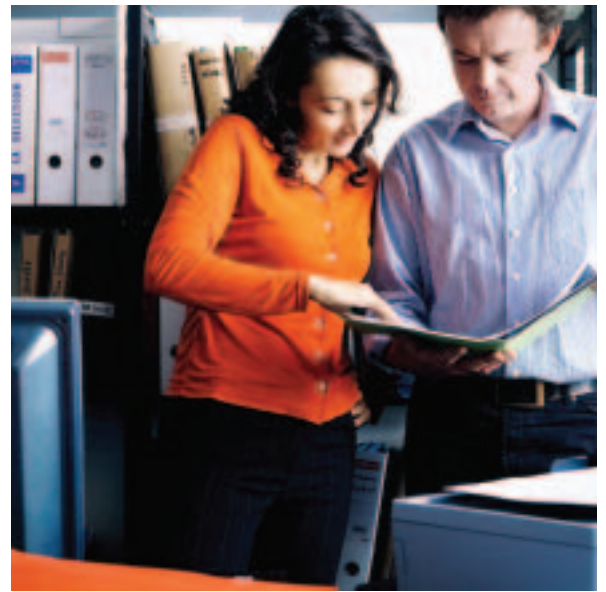


HP StorageWorks MSL6000 Tape Libraries

Product brief



In an ideal world, data storage would have high-capacity, bulletproof reliability and an easy-to-use graphical user interface. HP makes this vision a reality. The award-winning portfolio of HP StorageWorks MSL6000 Tape Libraries offers a complete backup and restore solution for mid-range and departmental environments.



Building a better backup

HP StorageWorks MSL6000 Tape Libraries provide performance, investment protection and unparalleled flexibility. By providing centralised backup to a single automated device, MSL6000 Tape Libraries free up valuable IT resources for more strategic work. Ideal for medium to large IT networks – with or without a storage area network (SAN) – experiencing uncertain data growth, MSL6000 Tape Libraries provide change without chaos, simplicity without compromise and growth without limits to meet the most demanding IT network requirements.

Change without chaos

MSL6000 Tape Libraries offer maximum flexibility with best-in-class drive technology, including the HP Ultrium 960 Tape Drive, Ultrium 460 and SDLT 600 Tape Drives. These technologies are available for both new library purchases as well as upgrades to currently installed MSL5000 and MSL6000 Tape Libraries.

Simplicity without compromise

MSL6000 Tape Libraries are easily managed through an intuitive GUI control panel and integrated remote web management, allowing simple management capabilities from any remote or on-site location. In addition, each library is available with a world-class diagnostic tool, HP Library and Tape Tools, at no additional charge. With HP StorageWorks Enterprise Backup Solution (EBS) 1-2-3 Certification, businesses can be assured that MSL6000 Tape Libraries are fully tested, certified and supported in a wide variety of configurations. Through EBS 1-2-3, HP can simplify SAN configurations for backup by providing business and technical blueprints and a design guide for quick and easy configuration.

For information on HP EBS solutions, go to:

www.hp.com/go/ebs

Growth without limits

HP StorageWorks MSL6000 Tape Libraries provide maximum investment protection through scalability. To move from a direct-attach to network-attached storage configuration, a simple installation of a Fibre Channel interface card makes the conversion a snap. In addition, the MSL6000 Tape Libraries can scale to larger configurations by enabling a single library to grow and change with capacity and technology as needs require. Not only will the MSL6000 Tape Libraries scale within the family, but they can also be scaled with legacy MSL5000 Tape Libraries using a pass-through mechanism for up to 16 drives and 240 slots.

Key features and benefits

- **Scalable** – Multi-unit stacking allows the libraries to grow using any combination of contiguous 5U and 10U MSL6000 Libraries for up to 240 slots and 16 drives in 40U rack space. MSL6000 Libraries are available in rack-mount configuration, but can be converted to tabletop with a conversion kit.
- **Flexible** – Utilising cPCI slots, MSL6000 Libraries can be configured with either Fibre Channel or LVD SCSI interface.
- **Easy to use** – The libraries offer one (MSL6026/MSL6030) or two (MSL6052/MSL6060) configurable mail slots for quick load/unload and removal of magazines.
- **Manageable** – The user-friendly touch screen GUI control panel and web-based remote management system make library management easy.
- **Compact** – MSL6000 Libraries come in 5U and 10U form factors, both offering the highest storage density in their class.
- **High performance** – Utilising Ultrium 960 Drives, the MSL6060 Library provides up to 60 data slots for a native capacity of 24 TB, and the MSL6030 Library provides up to 30 data slots for a native capacity of 12 TB.

- **Easy off-site backup** – Removable 15-slot magazines (two in each MSL6026/MSL6030 and four in each MSL6052/MSL6060) provide easy off-site backup storage.
- **Reliable** – Using Ultrium or SDLT tape drives, and proven library robotics¹, MSL6000 Tape Libraries provide the necessary high reliability for today's demanding environments. Each MSL6052/MSL6060 Library supports up to four Ultrium or SDLT Tape Drives, and each MSL6026/MSL6030 Library supports up to two Ultrium or SDLT Tape Drives.
- **Compatible** – MSL6000 Tape Libraries are qualified on a broad range of operating systems, ISV packages and hardware platforms to provide best-in-class interoperability.

HP Services

HP offers a comprehensive range of services to help deploy, manage and support your MSL6000. For services information, visit: www.hp.com/services

For more information

For more information, visit: www.hp.com/go/tape

To order additional HP StorageWorks MSL collateral, reference the following publication numbers:

- HP StorageWorks MSL Tape Libraries Quick Reference Guide: **4AA0-6780EEE**
- HP StorageWorks MSL Tape Libraries Resource CD: **4AA0-6631EEE**

For information on Storage Media, visit: www.hp.com/go/storagemedia

¹ MSBF = 2,000,000 robot load/unload cycles

HP StorageWorks MSL6000

Tape Libraries – 5U form factor



Drive type	HP StorageWorks MSL6030 Ultrium 960	HP StorageWorks MSL6030 Ultrium 460	HP StorageWorks MSL6026 SDLT 600
Unit dimensions (HxWxD)	8.75 x 17 x 30 in/22.2 x 43.2 x 76.2 cm	8.75 x 17 x 30 in/22.2 x 43.2 x 76.2 cm	8.75 x 17 x 30 in/22.2 x 43.2 x 76.2 cm
Shipping dimensions (HxWxD)	15.25 x 23 x 38.25 in/38.7 x 58.4 x 97.2 cm	15.25 x 23 x 38.25 in/38.7 x 58.4 x 97.2 cm	15.25 x 23 x 38.25 in/38.7 x 58.4 x 97.2 cm
Unit weight	43 lbs/19.5 kg	43 lbs/19.5 kg	43 lbs/19.5 kg
Shipping weight	75 lbs/34 kg	75 lbs/34 kg	75 lbs/34 kg
Native drive throughput (MB/s)	80	30	36
Recording method	Linear Serpentine	Linear Serpentine	Linear Serpentine
Maximum number of drives supported in a single unit	2	2	2
Single unit maximum native backup performance (GB/hr)	576	216	259.2
Single unit number of slots	30	30	26
Single unit native backup capacity (TB)	12	6	9
Robotics reliability mean swap between failure (MSBF)	2 million	2 million	2 million
Multi-unit scalability	Yes, up to 8 units	Yes, up to 8 units	Yes, up to 8 units
Maximum native scaled capacity (TB)	96	48	72
Maximum native scaled performance (GB/hr)	4,608	1,728	2,073
Interface	Ultra320 SCSI (LVD) 4Gb Fibre Channel	Ultra160 SCSI (LVD) 2Gb Fibre Channel	Ultra160 SCSI (LVD) 2Gb Fibre Channel
Control panel	GUI touch screen	GUI touch screen	GUI touch screen
Power requirements	90–132 VAC @ 47–63 Hz, 180–264 VAC @ 47–63 Hz	90–132 VAC @ 47–63 Hz, 180–264 VAC @ 47–63 Hz	90–132 VAC @ 47–63 Hz, 180–264 VAC @ 47–63 Hz
Power consumption (typical/max)	180 W/200 W	180 W/200 W	180 W/200 W
Warranty	One-year, next-business-day, on-site	One-year, next-business-day, on-site	One-year, next-business-day, on-site
Mission Critical Support services	Optional	Optional	Optional
Servers supported*	HP ProLiant servers, HP-UX servers, HP AlphaServer systems	HP ProLiant servers, HP-UX servers, HP AlphaServer systems	HP ProLiant servers, HP-UX servers, HP AlphaServer systems

* For complete software, servers, HBA and OS compatibility information, go to EBS at www.hp.com/go/ebs

HP StorageWorks MSL6000

Tape Libraries – 10U form factor



Drive type	HP StorageWorks MSL6060 Ultrium 960	HP StorageWorks MSL6060 Ultrium 460	HP StorageWorks MSL6052 SDLT 600
Unit dimensions (HxWxD)	17.5 x 17 x 30 in/44.5 x 43.2 x 76.2 cm	17.5x17x30 in/44.5x43.2x76.2 cm	17.5 x 17 x 30 in/44.5 x 43.2 x 76.2 cm
Shipping dimensions (HxWxD)	33 x 47 x 31 in/83.8 x 119.4 x 78.7 cm	33 x 47 x 31 in/83.8 x 119.4 x 78.7 cm	33 x 47 x 31 in/83.8 x 119.4 x 78.7 cm
Unit weight	95 lbs/43.1 kg	95 lbs/43.1 kg	95 lbs/43.1 kg
Shipping weight	147 lbs/66.7 kg	147 lbs/66.7 kg	147 lbs/66.7 kg
Native drive throughput (MB/s)	80	30	36
Recording method	Linear Serpentine	Linear Serpentine	Linear Serpentine
Maximum number of drives supported in a single unit	4	4	4
Single unit maximum native backup performance (GB/hr)	1,152	432	518.4
Single unit number of slots	60	60	52
Single unit native backup capacity (TB)	24	12	15.6
Robotics reliability mean swap between failure (MSBF)	2 million	2 million	2 million
Multi-unit scalability	Yes, up to 4 units	Yes, up to 4 units	Yes, up to 4 units
Maximum native scaled capacity (TB)	96	48	72
Maximum native scaled performance (GB/hr)	4,608	1,728	2,073
Interface	Ultra320 SCSI (LVD) 4Gb Fibre Channel	Ultra160 SCSI (LVD) 2Gb Fibre Channel	Ultra160 SCSI (LVD) 2Gb Fibre Channel
High availability features	Dual redundant power supply	Dual redundant power supply	Dual redundant power supply
Control panel	GUI touch screen	GUI touch screen	GUI touch screen
Power requirements	90–132 VAC @ 47–63 Hz, 180–264 VAC @ 47–63 Hz	90–132 VAC @ 47–63 Hz, 180–264 VAC @ 47–63 Hz	90–132 VAC @ 47–63 Hz, 180–264 VAC @ 47–63 Hz
Power consumption (typical/max)	300 W/360 W	180 W/200 W	300 W/360 W
Warranty	One-year, next-business-day, on-site	One-year, next-business-day, on-site	One-year, next-business-day, on-site
Mission Critical Support services	Optional	Optional	Optional
Servers supported*	HP ProLiant servers, HP-UX servers, HP AlphaServer systems	HP ProLiant servers, HP-UX servers, HP AlphaServer systems	HP ProLiant servers, HP-UX servers, HP AlphaServer systems

* For complete software, servers, HBA and OS compatibility information, go to EBS at www.hp.com/go/ebs
For current product numbers, please see the QuickSpecs at www.hp.com/go/automation

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For more information, visit www.hp.com/go/tape