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HP StorageWorks MSL6000 Tape Libraries

Data sheet



In an ideal world, data storage would have high capacity, bullet-proof 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 midrange and departmental environments.

Building a better backup

HP StorageWorks MSL6000 Tape Libraries provide centralized backup with advanced security features in a single, automated device, freeing valuable IT resources for more strategic work. These libraries are ideal for medium to large IT networks, with or without a storage area network (SAN), experiencing uncertain data growth. They offer a choice of tape technologies, including the HP StorageWorks LTO-4 Ultrium 1840 with embedded hardware encryption support, Ultrium 960, and SDLT 600 tape drives. Advanced security features include AES 256-bit hardware encryption embedded on the HP LTO-4 Ultrium 1840 Tape Drives. Encryption key management support is available with HP StorageWorks Data Protector and other ISV backup applications. This portfolio of tape libraries offers a scalable and manageable centralized tape backup

solution with enhanced security features that can grow with ever-changing backup and recovery needs, while reducing IT staff involvement.

Change without chaos

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 can the MSL6000 Tape Library scale within the family, but it can also be scaled with MSL5000 Tape Libraries using a pass-through mechanism, for up to 16 drives and 240 slots. In addition, it is now available with the LTO-4 Ultrium 1840 tape drives, which offer embedded tape drive encryption support, while Ultrium 960 and SDLT 600 tape drives are available as upgrades to currently installed MSL5000 and MSL6000 Tape Libraries.



HP StorageWorks MSL6000 Tape Libraries—5U form factor

Drive type	HP StorageWorks MSL6030 LTO-4 Ultrium 1840	HP StorageWorks MSL6030 Ultrium 960	HP StorageWorks MSL6026 SDLT 600
Unit dimensions (HxWxD)	8.75x17x30 in/22.2x43.2x76.2 cm	8.75x17x30 in/22.2x43.2x76.2 cm	8.75x17x30 in/22.2x43.2x76.2 cm
Shipping dimensions (HxWxD)	15.25x23x38.25 in/38.7x58.4x97.2 cm	15.25x23x38.25 in/38.7x58.4x97.2 cm	15.25x23x38.25 in/38.7x58.4x97.2 cm
Unit weight	43 lb/19.5 kg	43 lb/19.5 kg	43 lb/19.5 kg
Shipping weight	75 lb/34 kg	75 lb/34 kg	75 lb/34 kg
Native drive throughput (MB/s)	120	80	36
Maximum number of drives supported in a single unit	2	2	2
Single unit maximum native backup performance (GB/hr)	1.1 TB/hr	576	259.2
Single unit number of slots	30	30	26
Single unit compressed backup capacity (TB)	48	24	15.6
Robotics reliability (mean swap between failure (MSBF))¹	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 compressed scaled capacity (TB)	384	192	124
Interface	Ultra320 SCSI (LVD), 4-Gb Fibre Channel	Ultra320 SCSI (LVD), 4-Gb Fibre Channel	Ultra160 SCSI (LVD) 2-Gb Fibre Channel
Control panel	GUI touch screen	GUI touch screen	GUI touch screen
Warranty	One-year, next-business-day, on-site	One-year, next-business-day, on-site	One-year, next-business-day, on-site
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.

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

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.

Security that grows with your business

HP StorageWorks MSL6000 Tape Libraries are ideal for small to large data centers running key business applications. These solutions offer greater investment

protection through scalability to multiple terabytes of capacity, high performance, many enterprise-class data protection features and a fully integrated suite of centralized management tools for greater administrative control.

Key features and benefits

- **Scalability**—Multi-unit stacking allows the library to grow with changing storage requirements for up to 16 drives and 240 slots using either MSL6000 or MSL5000 Tape Libraries.
- **Flexibility**—Users can choose from a broad spectrum of tape technologies including LTO-4 Ultrium 1840, Ultrium 960, and SDLT 600 with either an Ultra320 LVD-SCSI or 4 Gb Fibre Channel interface (Ultrium configurations only).
- **Easy to use**—The user-friendly GUI control panel and web interface make library management easy from any remote or local location.



HP StorageWorks MSL6000 Tape Libraries— 10U form factor

Drive type	HP StorageWorks MSL6060 LTO-4 Ultrium 1840	HP StorageWorks MSL6060 Ultrium960	HP StorageWorks MSL6052 SDLT 600
Unit dimensions (HxWxD)	17.5x17x30 in/44.5x43.2x76.2 cm	17.5x17x30 in/44.5x43.2x76.2 cm	17.5x17x30 in/44.5x43.2x76.2 cm
Shipping dimensions (HxWxD)	33x47x31 in/83.8x119.4x78.7 cm	33x47x31 in/83.8x119.4x78.7 cm	33x47x31 in/83.8x119.4x78.7 cm
Unit weight	95 lb/43.1 kg	95 lb/43.1 kg	95 lb/43.1 kg
Shipping weight	147 lb/66.7 kg	147 lb/66.7 kg	147 lb/66.7 kg
Native drive throughput (MB/s)	120	80	36
Maximum number of drives supported in a single unit	4	4	4
Single unit number of slots	60	60	52
Single unit compressed backup capacity (TB)	96	48	31.2
Robotics reliability (mean swap between failure (MSBF))¹	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 compressed scaled capacity (TB)	384	192	124
Interface	Ultra320 SCSI (LVD), 4-Gb Fibre Channel	Ultra320 SCSI (LVD), 4-Gb Fibre Channel	Ultra160 SCSI (LVD), 2-Gb 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
Warranty	One-year, next-business-day, on-site	One-year, next-business-day, on-site	One-year, next-business-day, on-site
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/QuickSpecs.

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

- **Compact size**—MSL6000 libraries come in 5U and 10U form factors. Both configurations offer the highest storage density in their class.
- **Security**—Backups are safe from intrusion thanks to the embedded hardware encryption on the HP LTO-4 Ultrium 1840 Tape Drives. Users receive the highest level of encryption capability enabling data privacy and regulation compliance. Encryption key management support is available with HP StorageWorks Data Protector and other ISV backup applications.
- **High performance**—Utilizing LTO-4 Ultrium 1840 drives, the MSL6060 library provides up to 60 data slots for a native capacity of 96 TB of compressed capacity, while the MSL6030 library provides up to 30 data slots for a native capacity of 48 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**—The MSL6000's tape libraries provide consistent backup and automatically change tapes with a robotics rating of 2 million mean swaps between failures (MSBF).
- **Investment protection**—Rather than having to purchase an entirely new storage system to stay current with the latest drive technologies, users can simply install a drive upgrade kit to any existing MSL6000 library chassis.
- **Transitioning from SCSI to Fibre**—The StorageWorks MSL6000 Tape Libraries' controller-based architecture allows direct-attach configurations to easily move to a SAN environment through a simple interface card upgrade.
- **Compatible**—MSL6000 Tape Libraries work with industry-leading servers, operating systems and backup software to provide best-in-class interoperability.

Warranty and included services

HP warrants only that the software media will be free of physical defects for a period of 90 days from delivery. For more information about HP Global Limited Warranty and Technical Support, visit www.hp.com/products/storageworks/warranty.

HP Care Pack Services

HP Care Pack Services offer upgraded service levels to extend and expand your standard product warranty with easy-to-buy, easy-to-use support packages that help you make the most of your hardware and software investments. They let you choose the support levels that meet your business requirements, from basic to mission-critical. They help you contain total cost of ownership.

HP Care Pack warranty extensions can be purchased along with HP products to cost-effectively upgrade or extend your warranty. For many products, post-warranty HP Care Pack Services are available when your original warranty has expired. For more information on these services, contact your local HP sales representative, authorized HP business partner or visit http://www.hp.com/services/storage_carepacks.

HP Factory Express

HP Factory Express is a portfolio of more than 50 flexible and robust pre-priced, customized and integrated factory configuration and deployment services—supporting HP products from the desktop to the data center with Microsoft® Windows®, Linux, and HP-UX 11i.

HP Factory Express is designed to help you get more from your technology investment, extend your valuable resources and accelerate your business results. It provides predictable, trusted and tested IT solutions designed to enhance your productivity. With Factory Express, you can customize hardware to your exact specifications at the HP factory—helping you plan and meet budget goals, cut costs, speed deployment and free up internal resources. To learn more, visit www.hp.com/go/factory-express.

Additional HP support services

HP Services provides a broad spectrum of services to commercial and enterprise customers, including performance and availability services such as proactive mission-critical services, as well as support management services for deployment of the entire IT infrastructure, including HP and multi-vendor environments. For more information on these services, contact your HP sales representative, authorized HP business partner or visit www.hp.com/hps/storage.

Education services

HP offers a variety of training methods to fit your needs including traditional instructor-led courses at one of our 120 training centers worldwide, on-site training customized to your needs, in your facility, or even remotely assisted instruction learning that combines the best of traditional classroom training (including its live instructor and labs) with the best of online training (no traveling required). And if you like learning on your own schedule, at your own pace, make use of e-learning opportunities on the award-winning HP IT Resource Center, a learning community with extensive on-demand resources that can be accessed 24x7. For more information on these services, contact your HP sales representative, authorized HP business partner or visit <http://education.hp.com/curr-storsan.htm>.

Financial services

HP Financial Services provides innovative financing and financial asset management programs to help customers cost-effectively acquire, manage and ultimately retire their HP solutions. For more information on these services, please contact your HP sales representative or visit www.hp.com/go/hpfinancialservices.

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: 5983-0911EN*

For information on Storage Media, visit <http://h18006.www1.hp.com/storage/storagemedia.html>.

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4AA0-5498ENW Rev. 1, July 2007

