

# New Standard in Data Protection



The Compaq StorageWorks™ MSL5026SL delivers an outstanding mix of high-availability features, storage density and simplified management. It's the first tape library in its class to offer high availability with hot-plug drives, which makes it possible to exchange or add drives without disrupting the backup or restore process — minimizing downtime and simplifying maintenance. A GUI-based, touch-screen control panel simplifies library operation. And Compaq bundled management and diagnostics utilities make library management, running diagnostics and firmware upgrades simple and quick — saving time and lowering the total cost of ownership.

The MSL5026SL is available with SDLT 110/220 drives (MSL5026SL). With 26 data cartridges in a compact 5U form factor, native capacity of 2.86 TB is available. Cartridge magazines are removable for convenient off-site storage. Plus, like all Compaq storage libraries, the MSL5026SL is designed with multi-unit modular scalability that makes expanding capacity simple and seamless. Combine up to seven units to create one virtual library with native capacity up to 20.02 TB\*. That modularity lets you expand capacity as your needs grow and protects your existing investment. In addition, two cPCI slots provide future functionality via add-on cards, such as an embedded fiber-to-SCSI bridge.

The MSL5026 is qualified with AlphaServer™ systems and ProLiant™ servers running Compaq Tru64™ UNIX, OpenVMS, NetWare or Microsoft Windows NT or 2000.

- > High availability – hot-plug drives reduce downtime by permitting online drive exchange and capacity expansion
- > High capacity – 26 cartridge slots provide native capacity of 2.86 TB with SDLT 110/220 drives (5.72 TB with 2:1 compression)
- > High backup and restore performance – throughput of 11 MB/s for a single SDLT drive provides backup performance of up to 79.2 GB/hr for a single unit
- > High density – with the highest number of slots in its class and a compact 5U form factor, this library offers the highest storage density in its class and conserves valuable data-center and rack space
- > Simplified operation and management – a GUI-based touch-screen panel simplifies library operation, a mail slot speeds loading and unloading of cartridges, and removable magazines simplify off-site storage. Bundled Compaq Tape Storage Management Console and Compaq Insight Manager also simplify library management and diagnostics.
- > Multi-unit modular scalability – up to seven units can be linked together in a virtual library, for easy capacity expansion and investment protection\*
- > Future enhancements – cPCI slots will enable you to enhance functionality in the future with add-on cards

## System support

### Operating Systems support:

- > Microsoft Windows NT v4.0 and Windows 2000
- > Novell NetWare v 4.2, 5.0 and above
- > Tru64 UNIX v4.0G and 5.1
- > OVMS v 7.3

### Server support

- > Compaq ProLiant™ 8500, 8000, 7000, 6500, DL580/6400R, 6000, ML570/5500R, 5500, ML530/3000, DL380/1850R, ML370/1600, ML350/800 and DL360 servers
- > Compaq AlphaServer GS320, GS160, GS80, GS140/8400, GS60/8200, ES40/4100, 4000, 2100, 2100A, DS20/1200 and DS10/DS10L systems

### SCSI Controller support

Compaq ProLiant servers:

- > 64-bit dual channel Wide Ultra II SCSI Adapter 348757-B21
- > 64-bit 66 MHz dual channel Wide Ultra III SCSI Adapter 129803-B21

Compaq AlphaServers:

- > Compaq StorageWorks Ultra LVD single channel 3X-KZPCA-AA
- > Compaq StorageWorks Ultra III LVD, dual channel 3X-KZPEA-AA

### Application support

(Under direct SCSI connect and Compaq EBS for SAN)

- > VERITAS Backup Exec™ v8.5 for Windows NT/2000
- > VERITAS Backup Exec™ v8.5 for NetWare
- > Computer Associates ARCserve™ 2000 Windows NT/2000
- > Computer Associates ARCserveIT™ v7.0 for NetWare
- > Legato NetWorker v6.0.1 for Windows NT/2000

Supported in the future

- > Legato NetWorker v6.0.1 for Tru64 UNIX
- > Legato SmartMedia v1.2 for Tru64 UNIX
- > VERITAS NetBackup v3.4 for NT/2000 and Tru64 UNIX
- > Tivoli TSM v4.2 for NT/2000 and Tru64 UNIX

(Under direct SCSI connect only)

- > Storage Library System (SLS) v2.9d for OpenVMS
- > Archive/Backup System (ABS) v3.0 for OpenVMS

## Specifications

<b>Control Panel</b>	Library and Drive Status Load/Unload tape drives Library Configuration	Move tape cartridges Maintenance (drive cleaning, diagnostics) Statistics	
<b>SCSI Interface</b>	Ultra II LVD SCSI, VHDCI		
<b>Form Factor</b>	Rackmount (Compaq Rack, RETMA/Metric) Tabletop		
<b>Dimensions (HxWxD)</b>	Height	Rackmount Tabletop	8.75 in/22.3 cm 10.00 in/25.4 cm
	Width	Rackmount Tabletop	17.00 in/43.2 cm 19.00 in/48.3 cm
	Depth	Overall, 31.25 in/79.4 cm	
	Behind panel	30.25 in/76.8 cm	
<b>Unit Weight</b>	Single Drive Dual Drive	70 lbs/32 kgs. 75 lbs/34 kgs.	
<b>Capacity (native)</b>	Base Unit	26 slots, for native capacity up to 2.86 TB	
<b>Maximum Configuration</b> (7 modules with multi-unit scalability)	182 slots, for native capacity up to 20.02 TB		
<b>Performance (native)</b>	Base Unit	11 MB/s per drive Supports 1 or 2 SDLT 110/220 drives for native transfer rates up to 79.2 GB/hr	
<b>Maximum Configuration</b> (7 modules with multi-unit scalability)	Supports up to 14 SDLT 110/220 drives for native transfer rates up to 554.4 GB/hr		
<b>Power Consumption</b>	Base Unit	90-140 VAC @47 – 63 Hz 176-2590 VAC @47 – 63 Hz	
<b>Power Requirement</b>	400 watts continuous 450 watts (max peak @ 20% duty cycle)		
<b>Acoustic Noise</b>	Noise Power Emission Level	8 bels, max	
	Avg. Sound Pressure Level	52 dBA	
<b>Reliability</b>	MTBF MSBF	250,000 hours (100% duty cycle) 1,000,000 load/unload cycles	
<b>Product Safety Requirements and Approvals</b>	EN60950 (IEC 950), UL1950, CSA C22.2 950, VDE 0805/11.92 (TUV), EMKO-TSE 207/94 (NEMKO, FIMKO, DEMKO, SEMKO), NOM-019-SCFI-1993, KONKAR, MEEI, GOST, EVPU, SIQ, VCCI Class 1, C-Tick (Class A) SMA AZ/NZS 3548 Class A, BCIC, CE Marking Directive (93/68/EEC) (Class A), EMC Directive [89/336/EEC], Low Voltage Directive [73/23/EEC]		
<b>Warranty</b>	(3-1-1) Three-year warranty, first year, on-site next day response, years two & three parts exchange. Additional Warranty protection can be purchased for all MSL5026 Library products.		

## Models and Option numbers

### DLT Library System

#### MSL5026SL (SDLT 110/220 based)

231822-B21	MSL5026SL, 1 SDLT110/220DR, LVD, TT
231822-B22	MSL5026SL, 2 SDLT110/220DR, LVD, TT
231892-B21	MSL5026SL, 1 SDLT110/220DR, LVD, RM
231892-B22	MSL5026SL, 2 SDLT110/220DR, LVD, RM

#### Drive Upgrade Kit

231823-B22	MSL5KField UpgSDLT110/220 DR, LVD
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#### Rackmounting Kits

231894-B22	MSL5026 TT-RK KIT, Compaq Rack
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#### Pass Through Kit

231824-B21	MSL5026, Pass Thru mechanism*
231824-B22	MSL5026, Pass Thru Extender*
232136-B21	MSL5000 dual magazine pack

\* Available in June 2001

### Cartridges and Accessories

188527-B21	SDLT Media 5-Pack
188527-B22	SDLT Media 10-Pack
188527-B26	SDLT Media 20-Pack
232079-B21	SDLT Cleaning Cartridge
158398-001	DLT Barcode Labels, 100 pcs

### SCSI Cable Kits

341176-B21	VHDCI/Wide SCSI Cable, 6'
341177-B21	VHDCI/Wide SCSI Cable, 12'
201160-B21	VHDCI/Wide SCSI Cable, 10m
201160-B23	VHDCI/Wide SCSI Cable, 20m
341174-B21	VHDCI/VHDCI SCSI Cable, 6'
341175-B21	VHDCI/VHDCI SCSI Cable, 12'