



**enterprise storage**



**hp surestore e  
tape library  
6/140**

## **hp's surestore e tape libraries increase flexibility and manageability for a stress-free storage path for tomorrow**

### **key stress-free features**

#### **HP SureStore E Tape Library 6/140**

- **Provides up to 5.6 TB of native storage**
- **Configurable with 4 or 6 DLT-8000 drives**
- **Available with 100, 120, or 140 slots**
- **Rated at one million robotic swaps between failure**
- **Ideal for medium to large IT departments**
- **Increases return on investment with high-capacity storage**

Storage is the last thing you want to think about—but it's the first place you turn to restore lost data. You want stress-free storage, with features like scalability, increased capacity, remote manageability, and high reliability.

Now Hewlett Packard answers this need with the HP SureStore E 6/140 Tape Library. Designed to deliver exceptionally flexible storage while requiring fewer management resources, this library broadens the SureStore E family with higher capacities. It also leverages the SureStore E tape library family's common architecture, scalability, upgradability, and service.

### **capacity to handle your mass storage requirements**

The HP SureStore E 6/140 can provide abundant storage and reliable retrieval for all your computer data. Depending on your requirements, you can choose a basic 4-drive, 100-slot model with its 24 MB/s data transfer rate; the 6-drive, 100- or 120-slot model; or the 6-drive, 140-slot model with its 5.6 terabytes of native storage capacity. No matter which model you select, you'll appreciate how easily it fits into your physical space—with a cabinet that's the same size as an industry-standard rack—and how well it integrates with HP's SureStore E Disk Array FC60 and other disk array solutions.

### **scalability and upgradability that maintains your return on investment**

The HP SureStore E 6/140 gives you increased value through higher storage capacity. And with the HP SureStore E 6/140, you're not locked into a single storage solution. You can add capacity and drives as needed, or purchase a larger partially populated library and add drives later. What's more, the 6/140 is easy to upgrade. You can use a SCSI or Fibre Channel interface, or convert from the DLT8000 drive technology to HP's Ultrium or Super DLTape in the future—all without changing robotics or controllers. And the 6/140 is ideally suited to a heterogeneous environment, since it supports UNIX®, Windows NT®, MPEiX, and Solaris. It all adds up to a tremendous storage value.

### **manageability and serviceability make it a better solution**

The HP SureStore E 6/140 is designed for superbly easy management. You can configure it for unattended backup; restores are remarkably easy, too. An extra plus is the remote management card that lets you monitor the tape libraries with a Web browser from any remote location. You can also move tapes, clean drives, run wellness tests, and even restart the library, all remotely.

But that's not all. Like the rest of the HP SureStore E tape library family, the 6/140 also gets rave reviews when it comes to maintenance. Service personnel can access and swap any field replaceable unit (including the drive module, power supply, card cage elements, magazine, or robotic picker) without removing the library from its cabinet. They can even "hot swap" a drive without powering down the library or server. This is stress-free storage at its best!

### **million-swap reliability completes the equation**

Fourth-generation HP robotic technology incorporated in the HP SureStore E 6/140 helps this tape library achieve an astonishing one million swaps between failure. And the 6/140 is backed by a two-year warranty from Hewlett Packard, where service and support are always world-class.



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### Technical Specifications

Model	Tape Library 4/100	Tape Library 6/100	Tape Library 6/120	Tape Library 6/140
Drive Type	DLT8000	DLT8000	DLT8000	DLT8000
Number of Drives	4	6	6	6
Number of Slots	100	100	120	140
Max. Storage Capacity (native)	4 TB	4 TB	4.8 TB	5.6 TB
Max. Data Transfer Rate (native)	24 MB/sec	36 MB/sec	36 MB/sec	36 MB/sec
Average Tape Access Time	24 sec			
Average Tape Exchange Time	52 sec			
Mail Slot (cartridge access point)	User selectable; 0, 1, or 5 slots			
Reliability (mean swaps between failure)	1 million MSBF			
Standard Warranty	Two-year onsite next day			

### DLT8000 Tape Drive Characteristics

Max. Sustained Transfer Rate	6 MB/sec
Burst Transfer Rate	20 MB/sec synchronous, 12 MB/sec asynchronous
Average File Access Time	60 sec
Tape Load Time	37 sec
Tape Unload Time	17 sec
Repositioning Time	1.3 sec
Hard Error Rate	$1 \times 10^{17}$ bits read
Undetected Error Rate	$1 \times 10^{27}$ bits read
Reliability (Mean Time Between Failure)	250,000 hrs MTBF
Supported Media	HP DLTape IV, (C5141F), DLTape IIIXT (C5141A)

### Physical Characteristics

Standalone				
Height	195.6 cm (77 in)			
Width	56.5 cm (22.25 in)			
Depth	83.8 cm (33 in)			
Net Weight	213 kg (470 lb)	222 kg (490 lb)	263 kg (580 lb)	304 kg (670 lb)
Shipping Weight	275 kg (605 lb)	284 kg (625 lb)	325 kg (715 lb)	365 kg (805 lb)
Interface	Fibre Channel, HVDS and LVDS			



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<b>Model</b>	<b>Tape Library 4/100</b>	<b>Tape Library 6/100</b>	<b>Tape Library 6/120</b>	<b>Tape Library 6/140</b>
<b>Environmental Characteristics</b>				
Media	Wet bulb: +25°C (+77°F) max Gradient: 10°C (18°F) per hour			
Drive	Wet bulb: +46°C (+114°F) max Gradient: 10°C (18°F) per hour			
Temperature	Operating: +10 to 35°C (+50 to 95°F) Non-operating: -40 to 60°C (-40 to +140°F) Transportation: -30 to 60°C (-22 to +140°F) (<14 consecutive days)			
Humidity	Operating: 20% to 80% RH Non-condensing Non-operating: 10% to 90% RH Non-condensing			
Shock	Operating: 4 g transient Non-operating: 4 inch tilt/drop			
Vibration	Operating: 0.21 g rms (random) Non-operating: 2.1 g rms (random)  Operating: 0.25 g (swept sine wave) Non-operating: 0.5 g (0 to peak, swept sine wave)			
Altitude (low air pressure)	Operating: 15,000 ft (4,572 m) Non-operating: 45,000 ft (13,716 m)			
Acoustics (sound power)	Operating: 6.5 Bels			
Power Requirements	Line voltage: 100–127 Vac, 200–240 Vac Line frequency: 50–60 Hz			
Power Consumption	Typical: 425W Max: 450W	Typical: 565W Max: 600W	Typical: 590W Max: 625W	Typical: 615W Max: 650W

**Product Certification**

Family Certification Number	N2724N4Z
Certification	Safety/Regulatory: FCC Class A; CISPR 22, A; UL 1950 cUL; CSA 950; TuV IEC 60 950/IEC 60 825-1 (laser CLASS 1); C-Tick, VCCI, Taiwan

**Ordering Information**

Model Name: HP SureStore E 6/140	4/100 Configuration	6/100 Configuration	6/120 <sup>1</sup> Configuration	6/140 <sup>1</sup> Configuration
HP Product Numbers	A4669A (HVDS) (4 only)  A4670A (LVDS) (4 only)	A4669A (HVDS) (4 only)  A4670A (LVDS) (4 only)	A4669A (HVDS) (4 only)  A4670A (LVDS) (4 only)	A4669A (HVDS) (4 only)  A4670A (LVDS) (4 only)
Drive Upgrade	A5589A (HVDS) (4 only)  A4686A (LVDS) (4 only)	A5589A (HVDS) (6 only)  A4686A (LVDS) (6 only)	A5589A (HVDS) (6 only)  A4686A (LVDS) (6 only)	A5589A (HVDS) (6 only)  A4686A (LVDS) (6 only)
Capacity Upgrade			A4671A (1 only)	A4671A (2 only)
Fibre Channel Upgrade <sup>2</sup>	A5590A (HVDS)  A4687A (LVDS) (2 only)	A5590A (HVDS)  A4687A (LVDS) (3 only)	A5590A (HVDS)  A4687A (LVDS) (3 only)	A5590A (HVDS)  A4687A (LVDS) (3 only)

Included with all HP SureStore E Tape Libraries

<sup>1</sup> Customer must order a 100 to 120/140 slot capacity upgrade kit and drives.

<sup>2</sup> For Fibre Channel interface at time of order, please order A4669A HVDS Library and A5590A Fibre Channel Interface, HVDS. To upgrade from HVDS/LVDS to Fibre Channel at a later date, order A5590A (HVDS) or A4687A (LVDS) to correspond with library.

**For additional information on HP products and services, visit us at [www.hp.com](http://www.hp.com) or [www.hp.com/go/enterprisestorage](http://www.hp.com/go/enterprisestorage)**

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**Japan: +81 3 3331 6111**

**Latin America: +1 305 267 4220**

**Australia/New Zealand: +61 3 9272 2895**

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**For more information, contact any of our worldwide sales offices or HP Channel Partners (in the U.S. call 1 800 637 7740).**



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