

hp surestore Ultrium 230

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the high-performance solution for backup— and recovery

Most advances in backup and recovery solutions focus on backup. Like the three breakthroughs in the HP Surestore Ultrium 230: It's bigger—200 GB* per cartridge. It's faster—108 GB* per hour. It's more reliable—Ultrium eliminates the problems that cause most tape failures. It's upgradable—the Ultrium roadmap for the future is already written through 2006 (1.6 TB on a single cartridge at 320 GB per hour).

the other half of the breakthrough

Now the HP Surestore Ultrium 230 comes with HP One-Button Disaster Recovery (OBDR), an exclusive HP breakthrough that delivers big benefits right when you need them most. OBDR is easy—just press a single button. It's dependable—your disaster recovery record always reflects your current system configuration. It's fast—getting you back up and running sooner than ever.

With breakthroughs on both sides of the process, the HP Surestore Ultrium 230 with One-Button Disaster Recovery is the best backup and recovery solution for your network.

Improve your backup and recovery

Choose the HP Surestore Ultrium 230



features

benefits

One-Button Disaster Recovery

Exclusive HP technology makes backup more dependable, faster, and easier—just press one button

High-performance data-rate-matching mechanism

Delivers superior 108 GB* per hour backup performance with faster access and fewer repositions

New cartridge tape handling system

Dramatically increases reliability and eliminates common tape failure points

Robust format with automatic data recovery

Improves data integrity and overcomes scratches and other vertical media problems

* assumes 2:1 data compression.



the drive to excel

As much of a breakthrough as HP One-Button Disaster Recovery is, it wouldn't matter if it didn't come with a tape drive that could handle your ever-growing data in your ever-shrinking backup window. The HP Surestore Ultrium 230 offers the exceptional speed, capacity, and reliability you need to make backing up your system the least of your worries.

the speed you need

An HP Surestore Ultrium 230 has a native transfer rate of 15 Mbps—with typical 2:1 compression you can back up 200 GB on a single cartridge in less than two hours. If your hosts slow down, data rate matching keeps your data moving fast by reducing repositions that rob your speed.

three times reliable

The legacy-free mechanism in the HP Surestore Ultrium 230 is designed from scratch for 100% duty cycles. The Powered Smart Grabber eliminates manual loading and lost leaders. The tape path is simplified, so there's less wear and tear. Dual redundant servo-mechanisms run cooler—even if a servo fails.

Your data is more reliable as well. Errors are fixed automatically, with two levels of error correction, cyclical redundancy check prior to compression, and real-time read while write (RWW) for maximum data integrity.

The only thing more reliable than an Ultrium tape drive is an Ultrium tape drive built with legendary HP reliability and backed by HP's 3-year warranty. Every HP Surestore Ultrium 230 is covered by our next-day Express Exchange program for the ultimate in peace of mind.

compatible—with you

HP Surestore Ultrium 230 drives work with your servers, operating systems, and backup software. HP continuously works with the companies that make your server, operating system, and backup software to ensure system compatibility. So you don't have to.

what is an open tape format specification?

The tape storage market used to feature proprietary formats that didn't work together. So the three market leaders—HP, IBM, and Seagate—created a new format called LTO. Any manufacturer can license the format, so there's more choices, more competition, and more compatibility for you.

The LTO definition includes a detailed plan for successive versions of the specification, ensuring continuous improvements in future Ultrium drives.

what is LTO?

Old tape formats are severely limited by the need to conform to old standards. HP, IBM, and Seagate created the Linear Tape-Open (LTO) format from scratch to use the best available technologies with no legacy limitations.

what is Ultrium?

To overcome the performance vs. capacity trade-off inherent in any single-format solution, the LTO format includes two specifications: Ultrium delivers maximum capacity while Accelis is tuned for maximum performance.

You can learn more about the LTO specification at www.ltototechnology.com.



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out with the old, in with the new

The old way: You have to manually prepare a set of disaster recovery disks. You can either make a new set every time you do a backup—which makes backup a longer, more complicated process; or every time you add new software or a new peripheral—which makes upgrading your system a longer, more complicated process. Either way, if you forget to make a new set of disks—or lose the current set—your recovery is going to be a real disaster.

The new way: With HP One-Button Disaster Recovery your disaster recovery record is automatically stored on the backup tape, so it's always current and never lost.

The old way: Manual system recovery takes time, is difficult, and has to be done perfectly—at the most stressful possible time. If not done right, your system problems are just beginning.

The new way: With HP One-Button Disaster Recovery you just press a button. OBDR automatically restores your operating system, configuration, applications, drivers, and data files so you're back in business—fast.

The old way: First, collect your backup media and find your disaster recovery disks. Now reboot your system from the DR disks. Then load your backup tape. Now you can finally restore the system—assuming you found your DR disks, and they're up-to-date, and you've done everything correctly.

The new way: Insert your backup tape and boot your system in disaster recovery mode. HP OBDR will do the rest for you.

The cost of a system disaster increases every second until you're fully recovered. If you need a fast, foolproof way to take the worry out of the process, get the HP Surestore Ultrium 230 with One-Button Disaster Recovery.

Solve your backup and recovery problems

The HP Surestore Ultrium 230 with OBDR



specifications

Native Capacity

100 GB (200GB compressed)

Recording Format

Ultrium Generation 1

Data Compression

LTO-DC (enhanced version of ALDC)

Interface

LVD/SE wide Ultra 2 SCSI

Media

Ultrium 100 GB and 200 GB data cartridges (assumes 2:1 data compression)

Sustained Transfer Rate

15 MB/sec native
30 MB/sec compressed

Burst Transfer Rate

80 MB/sec

Internal Model Dimensions

Height: 82 mm (3 in)
Width: 146 mm (6 in)
Depth: 203 mm (8 in)

External Model Dimensions

Height: 117 mm (5 in)
Width: 208 mm (8 in)
Depth: 298 mm (12 in)

Rack Model Dimensions

Height: 161 mm (6 in)
Width: 87 mm (6 in)
Depth: 303 mm (12 in)

Internal Model Weight

4.2 lb (1.9 kg)

External Model Weight

11.7 lb (5.3 kg)

Rack Model Weight

7.9 lb (3.6 kg)

Form Factor (internal model)

Full-height, 5-1/4 in

Power requirements (internal)

5V DC, 3.6A; 12V DC, 1.6A

Power requirements (external)

100-240VAC, 0.7A max, 50-60 Hz

Power requirements (rack)

5V DC, 3.6A; 12V DC, 1.6A

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