hp surestore Ultrium 215

the new standard in high-capacity backup

backup to the future

Round-the-clock computer systems are extremely convenient for just about everyone—except the people who manage them. Such 24x7 applications get you coming and going—they generate more data and shrink your backup window.

The HP Surestore Ultrium 215 is the newest of a new breed of backup solutions. Technically speaking, it's an Ultrium tape drive. In plain English, it's the higher capacity, higher performance, more affordable backup – now in a smaller form factor.

the Ultrium 215 attacks your biggest backup problems—and makes them strengths:

More Reliability—Reliability is the most important feature of any backup solution. The Ultrium 215 is more dependable in two ways—in the reliability of the tape drive hardware and in the integrity of the data it stores.

More Performance—No matter how inexpensive a backup solution is, if it can't get the job done in the time you have, it's no solution. With its 54 GB/hour transfer rate, the Ultrium 215 can get the job done.

More Expandability—In business, planning to succeed means planning to grow. The Ultrium roadmap extends through 2006 when a single cartridge will hold 1.6 Terabytes. It's literally the tape backup of the future.

See a better future with HP Surestore Ultrium 215

features	benefits
Half-height form factor	Gives you more disaster recovery power in less space
One-Button Disaster Recovery (OBDR)	Exclusive HP technology makes backup simpler, faster, and much, much easier—just press one button
Superior 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
High-performance data-rate-matching	Delivers superior performance with faster access and fewer repositions

invent

the first name in reliability

The new Ultrium 215 mechanism is designed from scratch to solve the problems that keep your backup system from delivering perfect reliability. Improved cartridge loading eliminates manual loading problems and lost tape leaders. The drive's simplified tape path causes less wear and tear on the tape, improving data integrity. A dual redundant servo-mechanism means that your backup continues—even if a servo fails. And tape speed automatically adjusts to slower hosts, reducing frequent repositions caused by data stream interruptions, increasing overall speed and reliability.

not just any Ultrium tape drive

Even though Ultrium is a tape standard, the HP Surestore 215 is a lot more than a standard Ultrium tape drive. It's built with legendary HP reliability in every component. You'll get the peace of mind that only comes from HP's 3-year warranty and next-day Express Exchange of any defective drive. And you're getting HP's powerful backup management and self-diagnostic features, including the unique OBDR technology, which delivers faster, more reliable, and one-button easy disaster recovery.

space is money

In many computing environments today, space is at a premium. The Ultrium 215's small size makes it easy to integrate into your server. The half-height form factor of the internal or rack-mounted models make it the most space-efficient tape drive on the market. No one but HP can fit 200 GB of capacity and 54 GB per hour performance into this small space. And in an HP Surestore Tape Array, four Ultrium 215 tape drives—that's 800 GB of backup capacity—fit into 3U of rack space.

room to grow

The Ultrium format is designed to deliver maximum capacity—both now and in the future. Capacity[1] will double with each new generation of Ultrium, leading to a 1.6 TB single-cartridge capacity within the next decade.

what is an open tape format specification?

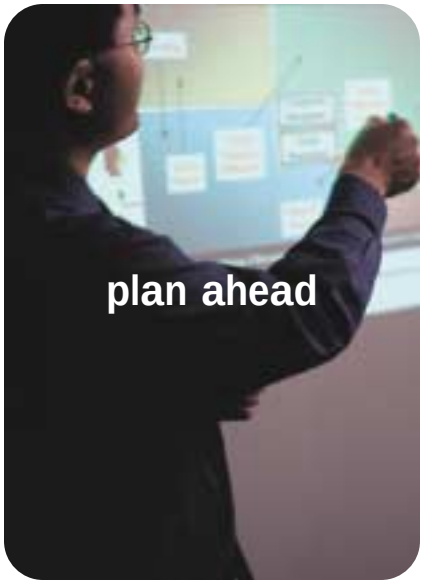
The tape storage market used to feature proprietary formats that didn't work together. So the three market leaders—HP, IBM, and Seagate - created a new format called Ultrium. Any manufacturer can license the format, which is part of the Linear Tape-Open (LTO) standard, so there are more choices, more competition, and more compatibility for you.

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

what is the Ultrium format?

Old tape formats are severely limited by the need to conform to old standards. HP, IBM, and Seagate created the Ultrium format from scratch to use the best available technologies with no legacy limitations.

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



[1]Capacity and transfer rates assume 2:1 data compression

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OBDR—the breakthrough we hope you never use

You've probably spent more time on your process for backups than restores. It's only natural—you do a lot more backups. But at HP, we've spent a lot of time working to make disaster recovery faster, simpler, and easier. The next time you recover a server against the clock, you'll be glad we did.

HP's unique solution is OBDR—One-Button Disaster Recovery. Take a look at the steps in an OBDR restore versus the alternatives:

- **Conventional Method**—Collect backup media, reload OS, reboot, reload backup software, reboot, load recovery tape, restore system
- **With Disaster Recovery Floppies**—Collect backup media, find Disaster Recovery floppies, reboot from Disaster Recovery floppies, load recovery tape, restore system
- **With HP OBDR**—Load backup media and boot system in Disaster Recovery mode

The Ultrium 215 with OBDR automatically restores your system with a single press of a button. It's faster, easier, and virtually foolproof.

Best of all, OBDR is compatible with the backup software you already use. So when you're choosing a backup/restore solution, don't overlook the most important part of the process. One-Button Disaster Recovery makes choosing—and using—the Ultrium 215 the easiest part of your job.

beating the hidden costs of backup and restore

With traditional disaster recovery solutions, you need to recreate the Disaster Recovery record—a time-consuming process—every time you install a new driver. If you forget or lose the Disaster Recovery record, you'll have problems at the worst possible time—during a restore.

By default, HP OBDR updates your Disaster Recovery record right on the backup cartridge during each backup—completely—with no babysitting required. So your Disaster Recovery record is always up to date and can't get lost. So you won't have any problems.

With an HP Surestore Ultrium 215 and OBDR, Backup and Restore Is No Problem.

specifications

Native capacity	100 GB (200 GB compressed)
Native sustained transfer rate	7.5 MB/sec (15 MB/sec compressed)
Host interface	Ultra2 SCSI
Form factor	Standard 5.25" wide, half height
Recording technology	8 channel linear serpentine recording on half-inch tape media
Format	Ultrium (Linear Tape-Open) Generation 1 Data Compression LTO-DC (enhanced version of ALDC)
Data cartridge	Ultrium Generation 1 (half-inch, single-reel data cartridge)
Operating system support	HP-UX 10.20 and 11.00, IBM AIX, Microsoft Windows NT 4.0 and 2000, Novell NetWare, Redhat Linux, SCO Openserver and UnixWare, SGI IRIX, Sun Solaris

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