



- New 5, 8 & 12 Disk Array Subsystems
- Mast Storage continues its international expansion
- SuperLoaders: Enterprise-class automation at a small-office price

■ Mast Storage Disk Array Subsystems ■

NEW

MAST DISK ARRAY SUBSYSTEMS: 5, 8 & 12 disks



Mast Storage is expanding its range of products in the high capacity storage field, both for local and more general use.

From September, 1st, 3 new MAST Storage solutions will be available: 5, 8 and 12 disk array subsystems.

5 Disks Array Subsystem: The first device is a small array with five HDDs which features Firewire 800, 400, USB 2.0 interface and SCSI interface. This unit has an attractive and simple design which make it perfect for mobility. This device is an ideal solution for customers who want hassle-free mass storage.

It offers a capacity of up to 2 TB using 400 GB HDDs. Furthermore it allows for Raid 0, 1, 0+1, 3 and 5. This little array is supported by Macintosh and Windows platforms and it also has *Hot Spare*.

8 or 12 Disks Array Subsystems: These Disk Array Subsystems offer up to 2.4 TB of RAID-6 protected storage in 8-bay and up to 4 TB in 12-bay, 2U rackmount enclosure.

The high-speed RAID-6 functionality offers all the benefits of RAID-5, with the added safety of dual parity data. This means two simultaneous drive failures can be sustained without any loss of data, offering the ultimate in fault tolerance.

All new units have a management by hyperterminal or web browser, with very simple menus and very easy to operate. Another option is to set up alerts by e-mail to guarantee that the units are working fine at all times.

The MAST Disk Array Subsystems ensure high storage with high speed and they are a reliable solution for many kinds of configuration at a reasonable price.

■ MAST continues its international expansion ■

With a solid position in Spain, Mast Storage continues its expansion process, widening its international partner base. After the recent agreement with the Mexican distributor M R SOLUTIONS, MAST now has distribution partners in 21 countries.

Moreover, Mast Storage has recently signed a collaboration agreement with NOVA ST, another new distributor located in Italy. With its head office in Arcugnano, Vicenza, NOVA ST will distribute Mast Storage solutions, which include tape backup (stand-alone devices and automation), disk backup (D2D and D2D2T), optical storage (UDO) and from September, Disk Array Systems.



■ New SuperLoaders ■

Enterprise-class automation at a small-office price

The redesigned Mast SuperLoader offers superior features and an economical price. The new SuperLoader addresses the business' needs for flexibility, high capacity and investment protection.

This automation product is available with **DLT** (DLT VS160), **SDLT** (SDLT-320 and SDLT-600) & **LTO** (LTO-2 and LTO-3) technology and offers a native capacity of up to 6.4 TB. The new SuperLoader will replace Mast ValueLoader, which will be discontinued from the beginning of September.

The SuperLoader is a significant advancement in rack optimised tape automation providing the highest removable data storage density available in a 2U high form factor.

The SuperLoader system is based on a **modular architecture** that facilitates unmatched upgradability, serviceability and configuration flexibility. In addition all 16-cartridge storage slots are contained in two removable, eight cartridge modules. This allows users to start with an entry-level configuration easily upgrade capacity and performance as their needs change.

The SuperLoader system is equipped with an Ethernet port that provides direct access to its integrated web-based management tools, without the need to install additional interfaces or software. Using a standard web browser, remote IT personnel can configure, control, diagnose, maintain and update the SuperLoader system.



FAQ

Connecting a SCSI Cable in a MAST DAT unit

The external tape drives provide two 68-pin, shielded connectors on the back panel. You can use either connector to attach the drive to the host computer or to another SCSI device.

The internal tape drives can be used with two SCSI interfaces:

-Wide SCSI:

Either Low Voltage Differential (LVD) or Single-ended (16-bit Wide mode).

-Narrow SCSI:

Either Low Voltage Differential (LVD) or Single-ended (8-bit Wide mode).



The tape drive automatically detects whether the SCSI bus is LVD or single ended. Be sure the SCSI bus is terminated properly.

MAST strongly recommends that you attach the tape drive to SCSI controllers that support the SCSI Ultra2 LVD interface only. Attaching the tape drive to a non-LVD SCSI controller or an 8-bit Narrow SCSI controller will degrade the performance of your tape drive and backup operations. Performance will also be degraded if you attach non-LVD SCSI devices on the same bus cable as your LVD connection. Do not connect the tape drive to a disk RAID controller (disk RAID controllers are not supported).

If you install an adapter, we recommend you purchase a SCSI LVD controller kit that includes the SCSI cable and terminator.

BACKUP VS ARCHIVING

Often mentioned in the same breath, backup and archiving are actually quite different processes, involving different capabilities and often with competing requirements.

Backing up data creates an exact mirrored copy of a company's information. It creates a "reserve" resource, should something happen to the original data due to a hardware failure, a human error or an act of God (fire, flood,...).

Archiving applies to data that is likely to be needed again: data that has to be stored for long periods of time and that is often looked up, that is, documents such as medical records, land registries, insurances,...

Each concept plays an important role in the information lifecycle management, and each has different and distinct features and applications. But both concepts can work under the same application. A clear example are mail systems:

On the one hand, periodical copies of the documents have to be done in order to restore them in case of data loss, and on the other hand certain mailboxes or messages must be stored so as to free space in the mail system and so allow access to the data should it occasionally arise the need to check or modify it.

It is highly important to choose the correct backup/archiving application, as well as the support where it will take place, to offer all these services efficiently.

Nowadays, there is a clear trend for the backup and archiving area: **automation**. The aim is to centralize all the backup process in a company into a single device, if possible, in order to avoid human errors and an unnecessary waste of time.

As well as tape and disk backup, Mast also offers UDO (Ultra Density Optical), a product designed specifically for the secure, long-term storage of high volume document images, emails, customer records, audio or video files, financial information and engineering documentation.



GLOSSARY

U. ULTRIUM FORMAT

The high capacity format used in Linear Tape-Open technology. The Ultrium format specifies those technologies required for consistent and reliable data interchange between drives manufactured to the Ultrium specification. The Ultrium format provides for up to 800 Gbytes of compressed (2:1) data storage per cartridge on half-inch tape. Also specified is a compressed (2:1) transfer rate of up to 136 Mbytes per second. Using a single-reel tape cartridge to maximize capacity, the Ultrium tape format is ideally suited for backup, restore and archive applications.

U. UNFORMATTED

Drive byte capacity before formatting. Maximum capacity of a disc drive before formatting, which is equal to bits per track times the number of heads times the number of cylinders.