



- **SuperLoaders: Automated Backup at an affordable price**
- **MAST Disk Array Subsystems now available**

■ Automated Backup at an affordable price ■



Mast Storage has updated its range of SuperLoaders which are now available with the DLT (DLT VS160), SDLT (SDLT600) and LTO (LTO-2 HH) technologies. The new SuperLoaders feature a capacity of up to 4.8 TB native (9.6 TB in compression 2:1) and a speed transfer of up to 129.6 GB/h native.

As at 1st September, the new SuperLoader from Mast Storage will substitute the range of ValueLoaders.

The SuperLoader, as far as capacity, price and features are concerned, is an ideal automated solution for the PYME, thus allowing to scale in a very simple way from 8 to 16 tapes (in just 2U height), doubling the capacity and meeting the growing professional data storage needs.

The MAST SuperLoader features a native capacity of 1.28 Tb and a transfer speed without compression of 28,8 GB/h with the

DLT (DLT VS160) technology; when using the LTO-2 HH, this capacity increases to up to 3,2Tb native and the speed of transfer to up to 93,6GB/h. And with the SDLT600, the storage capacity of the SuperLoader is of 4.8 Tb native and a speed of 129.6 GB/h.

The MAST SuperLoaders are based on a modular architecture : the drive, the power supply, ventilation and interfaces are all within just one module, thus being able to be substituted in seconds.

The SuperLoader from Mast Storage allows for remote management via the Internet. The unit is equipped with an Ethernet port which provides direct access to the management tools based on the web.

The MAST SuperLoader can centralize the company's backup process in just one device which avoids both human errors and, especially, loss of time.

■ MAST Disk Array Subsystems now available ■

Since September, 1st, the new MAST Disk Array Subsystems are available with 5, 8 or 12 disks:

5 Disks Array Subsystem: It offers a capacity of up to 2 TB using 400 GB HDDs and features Firewire 800, 400, USB 2.0 interface and SCSI interface. It is an ideal solution for customers who want hassle-free mass storage.

8 or 12 Disks Array Subsystems: They 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 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.



Serial ATA VS Parallel ATA

SATA disks (Serial ATA) mean a technological progress in comparison to PATA disks (Parallel ATA), but... which are these advantages?

Generally talking, we can say that SATA disks are faster than PATA disks, offer a better performance when there are several disks (i.e. RAID), they have a longer cable (up to 1m) and a higher capacity to connect hot swap.

Connectivity is one of the main differences between Parallel ATA and Serial ATA: Serial ATA standard defines a data cable using seven conductors and 8 mm wide wafer connectors on each end. SATA cables can be up to 1m (40 in.) long. PATA ribbon cables, in comparison, carry either 40 - or 80 - conductor wires and are limited to 45cm (18 in.) in length.

SATA cables, as they have less conductors than a PATA cable, produce less interference. The cable is thinner, longer and works at lower voltages (0.25V supply versus 5V from the PATA connection) thanks to LVDS technology.

SATA disks are connected point to point, that is to say, to plug one HDD to each connector in the motherboard, unlike PATA disks, which connect 2 HDDs to each IDE cable. Some of the features allowed for by SATA but not by PATA include hot-swapping and native command queuing.

This new standard offers full compatibility with IDE system. As its name suggests, Serial ATA is a serial connection similar to USB or FireWire.

The first generation of SATA offers a data bandwidth of 150MB/sec and 300 MB/s with Serial ATA II. The next SATA generation is expected to double the bandwidth over the preceding one.

The value of the SATA cable enhances its attractiveness for enterprise RAID and data storage. Regarding this subject, a complete backup solution for a company should have a copy to disk system (so as to be able to make copies onto the disks on a regular basis and allow for a quick data restoration) as well as a tape system and/or professional optical support which would allow the migration of the data copied onto the disk, thus storing it safely.

Mast Storage offers the disk backup solution Handisk Backup with 3.5" Serial ATA disks, compatible with PATA disks. Handisk Backup is a disk storage solution with USB 2.0 connection which offers 80 & 200 GB capacity. MAST has recently launched a range of Disk Array Subsystems with 5, 8 & 12 disks.



GLOSSARY

U. USB

Universal Serial Bus

It is a simple way to connect peripherals to your computer. It can be used to attach a wide variety of devices like scanners, cameras, keyboards, and speakers - almost anything to your computer. A USB is great for attaching medium speed devices to computers. Its maximum speed of 12 Mbps is fine for low speed devices like keyboards, mice, or joysticks. It is also well suited for medium speed devices like tape drives, hard disc drives, cameras, modems, or scanners. Also, because it's "hot-pluggable" you can plug devices in or unplug them safely when your computer is turned on. Using either multiple ports or a hub on your computer, you can attach an almost unlimited number of devices - theoretically up to 127 if you have them.

V. VERIFICATION

This feature lets the backup software application compare the data written to the original information to ensure that the data was written correctly.