

Providing ultrafast, reliable access to data and unattended backup/restore operations in midrange environments



Magstar MP (Multi-Purpose) 3575 Tape Library Dataserver

Highlights

Offers five models for the SCSI systems environment

Includes Magstar* MP tape drives that provide fast data access for applications such as save/restore, network storage management, data warehousing, and digital libraries

Supports new 7 GB (native) C-format XL data cartridges

Increases the amount of data that can be accessed with near-online performance for up to 6.8 TB of storage capacity (with 3:1 compression)

Delivers an aggregate sustained data rate of 50 to 300 GB/hour with maximum compression on Model C tape drives

Provides rich multi-host attachment for library sharing: up to six AS/400* hosts or any three heterogeneous hosts

Supports industry-leading storage management offerings to provide enterprise-wide backup/restore and archive/retrieval

Overview

The IBM Magstar MP 3575 Tape Library Dataserver is a family of automated tape storage solutions designed for the growing unattended storage requirements of today's midrange systems and network

servers. These compact, integrated tape storage libraries expand the capability of tape processing by optimizing *both* read- and write-intensive operations. A dual-gripper picker can provide fast cartridge exchange times between the library slots and the Magstar MP tape drives in the library. The Magstar MP 3575 tape library attaches to AS/400, RS/6000*, Netfinity*, HP, Windows NT**, Sun, and other SCSI-attached open systems in single- or multi-host configurations.

The patented new multi-path architecture enables multiple homogeneous or heterogeneous hosts to share library resources. You can configure up to three user-defined logical libraries to optimize host library sharing.

The Magstar MP 3575 Tape Library Dataserver has been enhanced to support the new 7 GB Magstar MP Fast Access Linear Tape C-format XL data cartridge and is backward read- and write-compatible with the 5 GB Magstar MP Fast Access Linear Tape B-format and C-format data cartridges. Existing Magstar MP 5 GB Model C drives can be upgraded with this new feature.

Unattended tape operations and higher storage capacity

There are five models of the Magstar MP 3575 tape library, ranging in size from 420 GB to 6.8 TB of compressed online storage capacity and from one to six tape drives. This spectrum of choices provides the high granularity required for a wide range of enterprise solutions. In addition, two of the models are expandable. With these capacities, the Magstar MP 3575



Magstar MP 3575 Tape Library Dataservers

tape library can provide unattended tape handling for tape save/restore and can evolve into an advanced storage management solution to enable a more efficient and cost-effective combined use of disk and tape.

Applications that previously required disk or optical technology can now benefit from the high capacities and fast data access characteristics of the Magstar MP 3575 tape library. These applications include:

- Automated save/restore
- Automated migrate/recall
- Backup/archive
- Large sequential files
- Records management
- Multimedia applications

Industry-leading software solutions for Magstar MP 3575 Tape Libraries are available from IBM, IBM Business Partners, and third-party solution providers. This broad range of applications enables you to select the solution that best meets your storage needs. Data-intensive applications—used for heavy tape processing, backup/restore, and archive/retrieval—can especially benefit from the high performance of the Magstar MP 3575 tape libraries.

Exceptional performance

Magstar MP technology is an industry leader in retrieval performance. Sustained data rates of 7 MB/sec (native) and 15 MB/sec (maximum compression) per Model C tape drive make the Magstar MP 3575 tape library ideal for time-sensitive applications that require fast access to data, highly I/O-intensive operations by multiple users, and traditional save/restore operations. The Magstar MP 3575 tape library can retrieve a tape from a library slot, load it into a drive, seek and begin transferring data in under 26 seconds, making it well suited for time-sensitive network data recall operations. In addition, a barcode reader enables rapid inventory management by optically scanning the barcodes on the cartridges.

Outstanding data integrity

Based on popular and proven Magstar MP technology, the Magstar MP 3575 tape library brings a new level of reliability and data integrity to the midrange environment and is specifically designed for:

- Repeated tape loads/unloads
- Higher tape drive duty cycles
- Increased overall mechanical reliability
- Increased overall media reliability

The Magstar MP 3575 tape library uses Magstar MP Fast Access Linear Tape cartridges, which are designed to provide several enhancements over previous tape technologies. The cartridges are specially designed for repeated handling and use in automated libraries. The tape media is contained in a self-enclosed tape path within a rugged cartridge case, remaining protected at all times from outside environmental factors. The media itself is an advanced metal particle tape developed for high durability and capacity.

Software considerations

Device drivers are available from IBM for AIX*, HP-UX, Windows NT, and Sun. Supported software for the Magstar MP 3575 tape library includes Tivoli** Storage Management (formerly ADSM), BRMS/400, and NetTAPE, as well as products from Cheyenne, Legato, Spectra Logic, SCH Technologies, and Veritas.

Magstar MP media

The Magstar MP media family consists of Fast Access Linear Tape cartridges: for Model C-XL, part number 08L6663; for Model B, part number 05H2462; for Model C, part number 08L6187; and cleaning cartridges, part number 05H2463.

Magstar MP media can be ordered via Magstar MP feature codes, IBM machine type 3579 and features, and from IBM Media or Supplies Distribution, or from authorized dealers. To order IBM media and supplies in the United States, call 1-888-IBM-MEDIA (1-888-426-6334).

For more information

For more information, contact your IBM representative or your IBM Business Partner. Or visit www.ibm.com/storage.



www.ibm.com/storage

© International Business Machines Corporation 1999

IBM Storage Systems Division
Removable Media Storage Solutions
9000 S. Rita Road
Tucson, AZ 85744

Produced in the United States
9-99
All rights reserved

* IBM, AIX, AS/400, Magstar, Netfinity, and RS/6000 are registered trademarks of International Business Machines Corporation.

** Windows NT is a registered trademark of Microsoft Corporation. Tivoli is a registered trademark of Tivoli Systems, Inc. Other company, product, and service names may be trademarks or registered trademarks of their respective companies.

IBM hardware products are manufactured from new parts, or new and used parts. In some cases, the hardware product may not be new and may have been previously installed. Regardless, our warranty terms apply.

Actual tape processing time achieved with the Magstar MP is a function of components such as system processor, the Magstar MP and its associated tape drive configuration, data block size, data compressibility, dependencies on other I/O such as disk, and the system and application software used.

Photography depicts design models. Actual product may show slight variations.

IBM Magstar MP 3575 Tape Library Dataserver at a glance

Model	L06	L12	L18	L24	L32
Capacity (native)	420 GB	840 GB	1.2 TB	1.6 TB	2.2 TB
(compressed)	1.2 TB	2.5 TB	3.7 TB	5.0 TB	6.8 TB
Cartridges	60	120	180	240	324
Drives	2	2-4	2-6	2-6	2-6
Avg. move time	< 4 sec	< 4 sec	< 4 sec	< 4 sec	< 4 sec

Dimensions

	L06	L12	L18	L24	L32
Height	39.0 in (991 mm)	40.5 in (1029 mm)	40.5 in (1029 mm)	59.75 in (1518 mm)	59.75 in (1518 mm)
Width	14.0 in (355 mm)	39.7 in (1009 mm)	39.7 in (1009 mm)	39.7 in (1009 mm)	39.7 in (1009 mm)
Depth	32.9 in (836 mm)	33.9 in (861 mm)	33.9 in (861 mm)	33.9 in (861 mm)	33.9 in (861 mm)
Weight	157 lbs (71 kg)	280 lbs (127 kg)	290 lbs (132 kg)	428 lbs (195 kg)	446 lbs (203 kg)

Drive characteristics

LZ1 compression	Standard
Recording technique	Interleaved serpentine longitudinal
Number of tracks	128 tracks
SCSI-II interface	Fast/wide differential
Capacity per cartridge	C-XL format: 7 GB up to 21 GB C format: 5 GB up to 15 GB (with 3:1 LZ1 compression)

Drive performance

Native sustained data rate	70 MB/sec
Compressed sustained data rate	15.0 MB/sec (maximum)

Operating environment

Temperature	60° to 90° F (16° to 32° C)
Relative humidity	8% to 80% non-condensing
Wet bulb	78° F (26° C) maximum
Heat output	L06: 630 BTU/hr L12: 920 BTU/hr L18/L24/L32: 1300 BTU/hr
Noise levels (operating)	L06: 52 dBS L12: 53 dBS L18/L24/L32: 54 dBS
Power requirement	100-127 VAC or 200-240 VAC

Standard features for all models

Auto cleaning, bar code reader, bulk load door, dual gripper, bulk I/O option (14 slots), I/O station (two slots), keylock, library viewing window, operator control panel, and self-contained diagnostics