

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



Magstar MP (Multi-Purpose) 3570 Tape Subsystem

Highlights

Sets a new standard for midrange tape performance for both backup and recovery of data

Features exclusive Fast Access Linear Tape that provides faster data access than other tape technologies for applications such as network storage management, data warehousing, and digital libraries

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

Allows access to 420 GB of storage capacity with near-online performance (with 3:1 LZ1 data compression)

Delivers sustained data transfer performance of 7 MB/sec (native) and up to 15 MB/sec per drive or 100 GB/hour per two-drive library (with maximum compression)

Offers unattended save operation

Supports industry-leading storage management offerings

Is backed by an industry-leading three-year warranty

Offers a library bar code reader

Overview

The IBM Magstar* MP 3570 Tape Subsystem provides a midrange tape storage solution that delivers high performance and unsurpassed reliability. This compact, integrated tape storage device expands the capability of tape processing by optimizing both read- and write-intensive operations. The Magstar MP 3570 attaches to AS/400*, RS/6000*, Netfinity*, HP/Windows NT**, Sun, and other SCSI-attached systems.

The Magstar MP 3570 Tape Subsystem has been enhanced to support the 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 3570 5 GB Model C drives can be upgraded with this new feature.

Improved data integrity

The Magstar MP 3570 brings a new level of reliability and data integrity to midrange environments and is specifically designed for:

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

Faster data performance

The Magstar MP 3570 is designed to operate at fast sustained data rates of up



Stand-alone Magstar MP 3570 Tape Subsystem

to 15 MB per second (with maximum compression), satisfying the high-performance demands of today's midrange computing environments. Its data transfer performance is also balanced to provide the fast data recall that satisfies the demand for responsive file retrievals for near-online applications and high data transfer performance for backup and recovery.

A Magstar MP 3570 library can have an unattended storage capacity of 140 to 420 GB of data (with 3:1 data compression). The 3575 library expands capacity to 6.8 TB (with 3:1 compression).

Unattended tape operations and higher storage capacity

Magstar MP technology is designed for integration with tape storage devices that provide unattended tape handling. Magstar MP tape subsystems can be installed for tape save/restore today and can later evolve into advanced storage management solutions that provide better combined use of disk and tape.

In unattended mode, the leading-edge characteristics of Magstar MP data

retrieval are readily apparent. Data retrieval requests that require minutes on other tape devices take only seconds on Magstar MP, so you can use tape for near-online storage.

This is possible in part because of the patented new Magstar MP Fast Access Linear Tape cartridge. The cartridge contains a self-enclosed tape path that eliminates time-consuming and cumbersome tape threading, loading, and unloading. In addition, the tape features an innovative new midpoint load design that dramatically reduces random search times.

Bar code reader

A bar code reader is standard on all Model C libraries. You can install this feature on existing libraries to help you identify and inventory cartridges faster and more efficiently.

Magstar MP 3575 Tape Library Dataserver

The IBM Magstar MP 3575 Tape Library Dataserver is a family of automated storage solutions using Magstar MP 3570 tape drives in larger unattended

libraries. Five models are available, ranging from 420 GB to 6.8 TB of storage capacity (with 3:1 LZ1 compression). For more information, refer to the Magstar MP 3575 Tape Library Dataserver data sheet (G225-6726).

Magstar MP media

The Magstar MP media family consists of the following components:

- Fast Access Linear Tape C-format XL data cartridge (part number 08L6663)
- Fast Access Linear Tape cartridge (for Model B, part number 05H2462; for Model C, part number 08L6187)
- Cleaning cartridge (part number 05H2463)
- Cartridge magazine (part number 49G6598)

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.



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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 3570 Tape Subsystem at a glance					
Model	C00	C01	C02	C11	C12
Drives	1	1	2	1	2
Cartridges	—	20	20	20	20
Configuration*	Drive only	Stand-alone	Stand-alone	Rack-mounted	Rack-mounted

* Comes with black covers for stand-alone configurations and a black faceplate for rack-mounted models

Characteristics

LZ1 compression	Standard
Recording technique	Interleaved serpentine longitudinal
Number of tracks	128 tracks
SCSI-II differential interface	Standard

Drive performance

Native sustained data rate	70 MB/sec
Compressed sustained data rate	15.0 MB/sec (maximum)
SCSI burst data rate	20 MB/sec

Capacity

Per cartridge	C-XL format: 7 GB to 21 GB C format: 5 GB to 15 GB (with 3:1 LZ1 compression)
Per 3570 library	140 GB up to 420 GB (with 3:1 LZ1 compression)

Dimensions

	Models C01/C02	Models C11/C12
Height	9.7 in. 247 mm	10.5 in. 266 mm (6 EIA Units)
Width	19.0 in. 483 mm	17.5 in. 444 mm
Depth	31.1 in. 790 mm	29.5 in. 748 mm
Weight	88/99 lbs. 39 kg/45 kg	52.9/63.9 lbs. 24 kg/29 kg

Operating environment

Temperature	60° to 90° F (16° to 32° C)
Relative humidity	8% to 80% non-condensing
Wet bulb	79° F (26° C) maximum
Heat output	C01/C11: 256 BTU/hr C02/C12: 478 BTU/hr
Power requirement	100-127 VAC or 200-240 VAC
Cycles	50-60 Hz auto-ranging