

A Magstar storage solution that provides 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 new Fast Access Linear Tape that provides faster data access than other tape technologies for current and emerging applications such as network storage management, data warehousing, and digital libraries
- Allows access to 300 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



Stand-alone Magstar MP 3570 Tape Subsystem

3570 attaches to AS/400®, RS/6000™, HP, Windows NT, Sun, and other SCSI-attached systems.

Improved data integrity

Based on the popular IBM Magstar technology, the Magstar MP 3570 brings a new level of reliability and data integrity to the midrange environment and is specifically designed for:

- Repeated tape load/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 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 100 to 300 GB of data (with 3:1 data compression). The 3575 library expands capacity to 4.8 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

An optional bar code reader is available for Magstar MP 3570 Models B01, B02, B11, and B12 and is standard on all Model C libraries. You can install this feature on new and 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 new family of automated storage solutions using the Magstar MP 3570 Model B and C tape drives in larger unattended libraries. Five models are available, ranging from 300 GB to 4.8 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 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, 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) today.

Tell me more

For more information, contact your IBM representative or your IBM Business Partner. In the United States or Canada, you can also call IBM Direct: 1-800-IBM-CALL (1-800-426-2255). Internet: www.ibm.com/storage



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IBM Storage Systems Division
Removable Media Storage Solutions
9000 S. Rita Road
Tucson, AZ 85744
www.ibm.com/storage

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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 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.

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IBM Magstar MP 3570 Tape Subsystem specifications

Model	B00/C00	B01/C01	B02/C02	B11/C11	B12/C12
Drives	1	1	2	1	2
Cartridges	—	20	20	20	20

Configuration*	Drive only	Stand-alone	Stand-alone	Rack-mounted	Rack-mounted
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* 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	B: 2.2 MB/sec C: 7.0 MB/sec
Compressed sustained data rate	B: 6.6 MB/sec (3:1) C: 15.0 MB/sec (maximum)
SCSI burst data rate	20 MB/sec

Capacity

Per cartridge	5 GB up to 15 GB (with 3:1 LZ1 compression)
Per 3570 library	100 GB up to 300 GB (with 3:1 LZ1 compression)

Required operating systems

AS/400: OS/400® V3R1, V3R2, V3R6, V3R7, V4R1, V4R2
RS/6000: AIX® 4.1.X, 4.2.x

Dimensions

	Models B01/B02 C01/C02	Models B11/B12 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	B01/B11: 239 BTU/hr B02/B12: 444 BTU/hr 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