

# SyDOS 105MB Internal 3.5" Removable Cartridge Drives

### For PCs And Compatibles

Compact 3.5" Size Provides 105MB

Fixed Hard Drive Performance

Superior To Optical Drives

Unlimited Capacity

Data Security and Organization

The SyDOS MARLIN Series is for PC and AT-compatible computers that require a compact, high-performance, expandable storage subsystem for multimedia, desktop publishing and other data intensive applications. The MARLIN 105i internal removable cartridge disk drive offers unlimited storage through 105MB increments of data per cartridge. The compact form factor and large 105MB capacity make this storage solution ideal for data transportability, organization, high speed back up and unlimited storage.

Compact 3.5" Size Provides 105MB. The SyDOS MARLIN 105i incorporates SyQuest removable technology into a 3.5" form factor with 105MB of storage. You get all the performance of a 3.5" disk drive plus the advantages of removability.

**Fixed Hard Drive Performance.** The SyDOS MARLIN 105i performs like a fixed drive, utilizing the same proven Winchester technology, with an average seek time of 14.5 msec and 100,000 hours MTBF.

**Performance Superior To Optical.** The use of Winchester technology allows the MARLIN 105i to achieve hard drive performance - three times faster than optical drives — **and** you get a significant cost savings.

Unlimited Capacity. There is no limit to capacity using a SyDOS MARLIN drive because there is no limit to the number of 105MB cartridges you can use. Cartridge technology eliminates all storage constraints encountered with fixed hard drives.

Organization And Security Of Data. SyDOS users can easily store large programs or files on separate cartridges, organizing work by project, application or user. And securing confidential information is as easy as removing a cartridge and locking it away.

**Convenient Data Transportability.** SyDOS 3.5" cartridges can easily travel with you or through the

mail. Move up to 105MB of data on each cartridge quickly and easily across the office or across the country.

Fast Backup And Retrieval Of Data. You can back up as much as 105MB in as little as 10 minutes using standard DOS commands – there's no special software to learn. And MARLIN drives are random access so no time is wasted restoring archived tape files.

Compatible With Virtually All AT-Type Systems. The MARLIN 105i includes a 16-bit IDE host adapter that will allow connection of up to two MARLIN drives to each adapter. And the MARLIN 105i can coreside with other fixed drives and peripherals operating from MFM, ESDI, SCSI, RLL and IDE host adapters.

Easy And Versatile Installation. You can mount the MARLIN 105i into your computer's 3.5" or 5.25" drive bay. All mounting hardware is included for ease of installation. In addition, all drives come complete with drive, cartridge, IDE adapter, software, cabling and step-by-step instructions for quick, easy installation.

2-Year Drive And 5-Year Cartridge Warranty. The MARLIN 105i is engineered to provide state-of-the-art performance and reliability-guaranteed by warranties unsurpassed in the industry – with 2 years on the drive and 5 years on the cartridge.

Convenient Data Transportability

> Fast Data Backup and Retrieval

Compatible With AT-Type Systems

Easy, Versatile Installation

2-Year Drive And 5-Year Cartridge Warranties





Capacity - One 3.5° 105MB SyQuest cartridge provides the storage capacity equal to that of 75 floppy disks.



Data Organization - SyQuest cartridges allow you to easily organize data by application, file or user



Data Security – SyQuest cartridges can be locked away to ensure the confidentiality of sensitive data.



Transportability - SyQuest cartridge technology allows your data to travel with you or through the mail.

## SyDOS MARLIN 105i Product Specification Summary

#### **Disk Drive Specifications**

Interface

Type Capacity

Cartridge (512 Byte sectors)

Performance

Seek Times (typical, including settling time)

Track to track: Average: Average latency

Rotation speed (±.1%)

Data transfer rate (to/from media) Data transfer rate (to/from buffer)

Spin-up time

Stop time (power down)

Interleave Buffer size

Reliability and Maintenance

MTBF

Cartridge Insertions Spindle start/stop cycles Preventive maintenance Component design life Data reliability

Physical Characteristics (Drive)

Height Width Length Weight

Read/Write Recording method

Modulation code Power Requirements (typical)

+5 VDC ±5% (spindle motor ± 10%)

Read/write/active Seek Idle (spindle motor on) Standby (spindle on) Sleep (spindle off)

Spin-up **Environmental Characteristics** 

Temperature Operating Non operating Thermal transient Altitude\*\*

Operating Non-operating

Shock† (1/2 sine at 10 msec)

Operating (G's) Non-operating (G's) Non-operating (G's) ATA/IDE

105MB formatted

3 ms 14.5 ms 8.33 ms 3600

1.75 to 1.95 MB/sec 4.0MB/sec (max) 8 sec. typical 8 sec. typical

64K

100,000 hours (POH)\* 20,000 (min) 100,000 (min) None

5 years

<1 non-recoverable error in 1012 bits read

1.00 inch (2.54cm) 4.00 inch (10.16cm) 5.75 inch (14.60cm) 15 oz (425gm)

3 frequency zones 2/3 (1,7) RLL code

Current (mA)	Total Watt
700	3.50
900	4.50
350	1.75
130	0.65
70	0.35
1200	6.00

4° to 55°C -40°C to 70°C 20°C per hour (max)

> -1,000 to 10,000 feet (-305 to 3,048m). -1,000 to 40,000 feet (-305 to 12,192m)

50 (with cartridge) 80+ (without cartridge)

\* Field MTBF - 100% duty cycle; \*\* Relative to sea level; † Without non-recoverable errors

## SyQuest Cartridge Specifications — Model SQ310

	Physical		
Configuration		Physical Characteristics	
Number of Disks	1	Height	0.385 inch (.978cm)
Data Surfaces	2	Width	3.831 inch (9.73cm)
Servo	Embedded	Length	3.866 inch (9.82mm)
Tracks/User	4086	Weight	2.9 oz (83gm)
Track Density (tpi)	2100		
Bytes Per Block	512		



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