

New miniature hard disk drives revolutionize capacity and performance of portable electronics



IBM 170 MB/340 MB Microdrives

Highlights

Smallest, lightest hard disk drives

With miniature disks measuring approximately one inch in diameter and weighing only 20 grams, the new microdrives from IBM offer high-capacity storage for a wide variety of mobile products such as digital cameras and handheld PCs.

Highest capacities in one-inch form factor

With 170 MB and 340 MB capacities, microdrive technology takes storage far beyond the compact flash memory cards¹ in use today.

Compatible with CompactFlash Type II interface

Designed to the industry-standard CompactFlash Type II (CF Type II) interface, microdrives are easily integrated into a range of handheld products.

Utilizes IBM leading mobile drive technology

To maximize capacity and performance, these miniature hard drives incorporate leading-edge IBM technologies including giant magnetoresistive (GMR) head technology, load/unload technology, Enhanced Adaptive Battery Life Extender™ 2.0, and TrueTrack™ Servo technology.

The IBM 170 MB and 340 MB microdrives break the storage barrier traditionally imposed on portable electronic devices by providing high capacity in a CF Type II form factor. These microdrives will allow users of digital cameras to capture more high-resolution photos without the need for frequent downloading or saving of data. Handheld PC users will be able to access more applications and maintain large databases (e.g. Internet pages and e-mail). The microdrives will also enable the creation of new product categories that combine consumer electronics with computer applications.

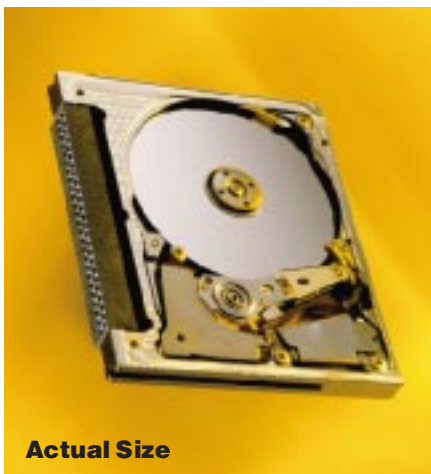
More memory, more portability, more value

With capacities of 170 MB or 340 MB on a single hard disk drive, these tiny microdrives will be, per megabyte, a cost-effective way to add more storage

capacity. And weighing just 20 grams, the 170 MB and 340 MB microdrives will be the most portable disk drives available—an important benefit for users of handheld devices—from sub-notebooks to digital cameras to new mobile information products.

Superior performance, improved productivity

With superfast read/write rates and operating speeds of 4500 RPM, these microdrives offer significant improvements over current technology. Because they *are* hard disk drives, they perform like hard disk drives—far surpassing key performance levels achieved by flash memory cards. And that translates to improved productivity for users. The microdrive's higher storage capacities also improve efficiency because users won't have to download data as often.



Compatible interface

The microdrive has been designed to the industry-standard CF Type II interface for ease of integration into a wide range of handheld products. This new CF Type II standard allows for backward compatibility with CF Type I cards. In addition, the microdrives are backward compatible with many existing portable computers and devices when used with Personal Computer Memory Card International Association (PCMCIA) card adapters.

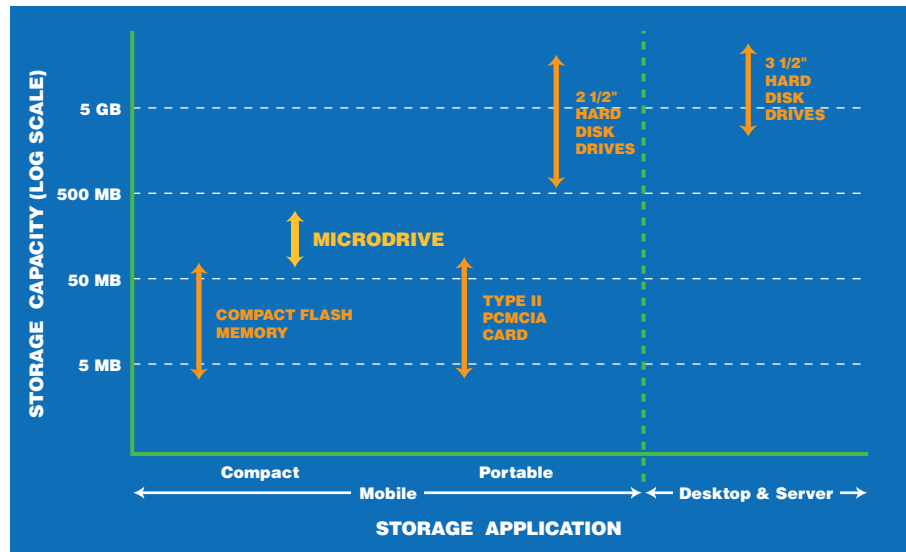
Incorporates proven IBM technology

What microdrives lack in size, they make up in performance. Features include the reliable, proven technology IBM has created for Travelstar™, Deskstar™, and Ultrastar™ hard disk drives. These technologies include GMR technology that increases areal density, thus giving the miniature drives their enormous capacities. The Enhanced Adaptive Battery Life Extender 2.0 power management technology minimizes power consumption and maximizes battery life, so a microdrive can be powered by standard "AA" batteries. Load/unload technology enables the use of smooth disks, allowing lower fly height that also results in higher areal density. The TrueTrack Servo technology enhances microdrive reliability and robust performance.

IBM quality and service

The new microdrive technology from IBM is backed by the superior technical support and services that allow IBM customers to quickly develop and manufacture mobile devices that are both high quality and cost-effective.

¹ Compact flash memory cards refers to memory cards with form factors smaller than PCMCIA cards.



IBM 170 MB and 340 MB microdrives fill storage gap

High-capacity storage solutions fall into three categories: compact, portable (2.5-inch hard disk drives), and desktop and server (3.5-inch hard disk drives). The IBM 170 MB and 340 MB microdrives fill the storage gap between compact and portable storage.

IBM 170 MB and 340 MB microdrive

Dimensions	42.8 x 36.4 x 5.0 mm
Capacity	170/340 MB
Disks	1
Data heads	1/2
Seek time (typical read) average	15 ms
Media transfer rate	32-49 Mbits/sec
Rotational speed	4500 RPM
Power supply voltage	3.3 V
Weight	20 g
Interface	CompactFlash Type II

Tell me more

For more information, please contact your IBM specialist. In the United States, call 1 800 IBM-7777 and ask for Department Star 30. (Outside North America, call 1 416 383-5161 or fax 1 905 316-4733.) Or, learn more about the IBM family of microdrives by visiting www.ibm.com/storage/microdrive.



www.ibm.com/storage

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