

The revolutionary IBM 340 MB microdrive delivers high capacity and high performance for portable electronic devices



IBM family of microdrives

Highlights

Offers high-capacity, high-performance removable storage with capacities of 340 MB and 170 MB

Ideal for digital cameras, handheld PCs, digital audio players, notebook PCs, and other portable handheld electronic devices

Industry-standard CF+ Type II format allows easy integration into a variety of handheld products. Also compatible with Personal Computer Memory Card International Association (PCMCIA) Type II with use of an adapter

Incorporates leading-edge IBM technologies such as giant magnetoresistive (GMR) head technology, load/unload, Enhanced Adaptive Battery Life Extender* 3.0, and TrueTrack* servo for maximum capacity, performance, and reliability

New markets for high-capacity, compact storage

The IBM 340 MB microdrive provides breakthrough storage capacity for portable electronic devices in an industry-standard CF+** Type II form factor. The IBM 340 MB microdrive allows users of digital cameras to capture more high-resolution photos without the need for frequent downloading of data. Handheld PC users can access more applications and maintain large databases. Notebook and desktop PC users can backup and transport their data more quickly and conveniently.

More memory, more portability, more value

With capacities of 340 MB or 170 MB on a single hard disk drive, the IBM family of microdrives offers high-capacity yet cost-effective personal storage for electronic devices. And weighing only 16 grams, the 340 MB and 170 MB microdrives deliver high capacity in a compact, portable package, a key requirement for today's handheld electronic devices—from subnotebooks to digital cameras to new mobile information products.



IBM 340 MB microdrive, actual size (model, for illustration only)

High performance, improved productivity

With media transfer rates of up to 45.2 Mb/sec and rotational speeds of 4500 RPM, the IBM 340 MB and 170 MB microdrives offer performance advantages over current flash memory. That means improved productivity for users. The IBM 340 MB microdrive can improve operational efficiency because users will not have to download data as often.

IBM microdrives at a glance

Model **IBM 340 MB microdrive/IBM 170 MB microdrive**
DMDM-10340/DMDM-10170

Configuration

Interface	CF+ (ATA and PCMCIA compatible)
Capacity (MB)	340/170
Sector size (bytes)	512
Disks	1
Areal density (max Gbits/sq. inch)	5.04
Recording density (max KBPI)	2651
Track density (TPI)	19,000

Performance

Data buffer (KB)	128*
Rotational speed (RPM)	4500
Latency (average ms)	6.7
Media transfer rate (Mb/sec)	30.1-45.2
Interface transfer rate (MB/sec)	5.2
Sustained data rate, typical read or write (MB/sec)	1.8 (min);3.0 (max)
Seek time - Read	
Average (ms)	15
Track-to-track (ms)	2
Full-track (ms)	20

Reliability

Error rate (nonrecoverable)	< 1 per 1.0 E 13 bits transferred
Load/unload cycles	300,000

Power

	+3.3V power supply	or	+5V power supply
Voltage requirement (auto-detect)	+3.3VDC, ± 5%		+5VDC, ±5%
Current (write)	300 mA		330 mA
Current (standby)	65 mA		80 mA
Power consumption efficiency (watts/MB)	0.00215/0.00429		0.00353/0.00706

Physical size

Height (mm)	5 +0 / -0.1
Width (mm)	42.80/±0.10
Depth (mm)	36.40/±0.15
Weight (g)	16 (max)

Environmental characteristics	Operating	Nonoperating
Ambient temperature	5 to 55° C	-40 to 65° C
Relative humidity (noncondensing) (%RH)	8 to 90	5 to 95
Maximum wet bulb (noncondensing)	29.4	40
Shock (half sine wave)	150 G (2 ms)	1000 G (1 ms)
Vibration (random [RMS])	0.67 G (5 to 500 Hz)	3.01 G (5 to 500 Hz)
Vibration (swept sine)	1 G 0-peak (5 to 500 Hz)	NA

* 32 KB used for microcode

For more information

Internet and e-mail:

- www.ibm.com/storage/microdrive
- drive@us.ibm.com

IBM TECHFAX document server:

- 408-256-5418 (requires touch-tone phone)
- International callers must call from a fax machine

IBM hard disk drive product information:

- 1 888 -IBM-5214 (United States)
- 507-253-4110 (outside of the United States)

IBM family of microdrives

- IBM 340 MB microdrive
- IBM 170 MB microdrive
- Travel Kit for the IBM 340 MB microdrive, including microdrive, PC Card adapter, and field case
- Travel Kit for the IBM 170 MB microdrive, including microdrive, PC Card adapter, and field case

All of these products include a carrying case for the IBM 340 MB or 170 MB microdrive.



www.ibm.com/storage/microdrive

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