

3 1/2-INCH 133, 171, 256 and 342 MB DISK DRIVES
MODELS H3133, H3171, H3256 and H3342

AN OEM OFFERING FROM IBM

This 3 1/2-inch disk drive family is the latest in a series of IBM storage solutions for desktop personal computers. Maximum flexibility is provided by a range of formatted capacities from 133 to 342 MB in an industry-standard package. The average seek time of 14 ms provides excellent performance for desktops or other interactive applications.

Reliability has been improved over previous models, giving a projected 250,000 power-on hours MTBF.

QUALITY AND AVAILABILITY

These IBM drives are manufactured to stringent standards for quality and performance, with sensitive components assembled in a rigidly controlled clean environment.

Extensive quality control and testing procedures are used throughout the manufacturing process to assure product reliability and data integrity.

Worldwide IBM manufacturing facilities provide multi-site, high-volume production capability.

HIGHLIGHTS

- 133, 171, 256 and 342 MB capacity
- AT* (IDE) and SCSI-2 interfaces
- ECC on the fly
- Zone Bit Recording
- 250,000 power-on hours MTBF
- Mounts in all six directions
- Dedicated head landing zone
- Automatic actuator lock
- 96 KB segmented data buffer for read look-ahead and write
- 8.3 MB/sec interface data transfer rate

PRODUCT DESCRIPTION

3 1/2" 133, 171, 256 and 342 MB Disk Drives AT version only	Models H3133, H3171, H3256, H3342
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Configuration	
Interface	AT (IDE)
Device Capacity	
Formatted	133/171/256/342 MB (1)
Sector Size	512 Bytes
Recording Zones	2
User Cylinders	2420
Data Heads	2/2/3/4
Disks	1/1/2/2
Recording Density	
Maximum	55000 BPI
Track Density	2800 TPI

Performance

Rotational Speed	3600 RPM	
Media Transfer Rate	18.0 (Inner), 26.5 (Outer) Mbits/sec	
Interface Transfer Rate		
Maximum (AT only)	8.3 MB/sec	
Data Buffer		
Read Look-Ahead and Write	96 KB (Three segments, 32 KB each)	
Latency		
Average	8.33 msec	
Seek Time (Typical)		
Average (Read)	14 msec	
Track to Track	4.5 msec	
Full Track	28 msec	
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Reliability		
MTBF		
Projected power-on hours	250,000	
Error Rates		
Non-Recoverable Errors	< or - per 1.0E 13 Bits Transfer	
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Power		
Requirements	+ 5 VDC + or - 5%, +12 VDC + 10% -8%	
Dissipation (typical)		
Start Up (Maximum Peak)	12.6 Watts	
Seek	4.2 Watts	
Idle	2.5 Watts	
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Physical Size		
Height	25.4 mm	
Width	101.6 mm	
Depth	146 mm	
Weight		
Maximum	510 g	
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	Operating	Non-Operating
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Environmental Characteristics		
Ambient Temperature	5 to 55 degrees C	-40 to 65 degrees C
Relative Humidity		
Non-Condensing	8% to 90%	5% to 95%
Maximum Wet Bulb		
Non-Condensing	29.4 degrees C	35 degrees C
Shock		
Half-sine-wave	15 G/5 msec	75 G/11 msec
Vibration		
Random (RMS)	0.67 G (5-500 Hz)	1.04 G (2-200 Hz)
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(1) 1 MB=1,000,000 Bytes

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