

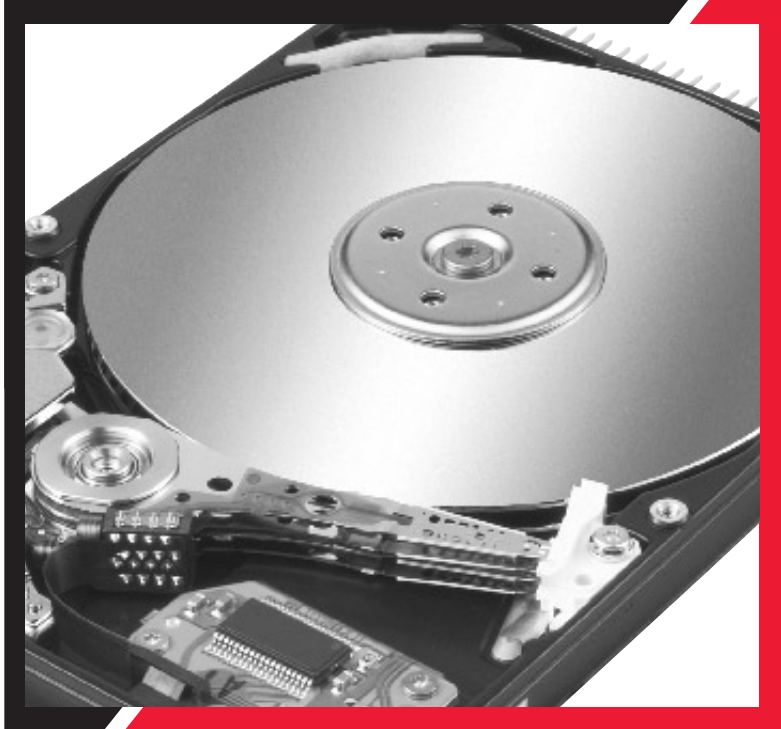
2.5 inch ATA-5 hard disk drives
Capacities: 6, 10 & 20 GB

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Hitachi DK23BA series hard disk drives

Highlights

- ▶ **17.2 GBits/in²**
- ▶ **6, 10, 20 GB in 9.5mm high package for maximum capacity
slimline notebooks**
- ▶ **ATA-5 interface with 512 kB or 2048kB read/write cache**
- ▶ **GMR head and MEEPRML read channel technology**
- ▶ **32-bit RISC microprocessor, Shock sensor, SMART**



Hitachi DK23BA series specifications

Product	Hitachi DK23BA series		
Model	DK23BA-20	DK23BA-10	DK23BA-60
Performance			
Total Capacity			
Formatted	20.00 GB	10.06 GB	6.01 GB
Per Sector	512	512	512
Number of Cylinders	22600	22600	22600
Number of Disks	2	1	1
Number of Heads	4	2	2
Seek Time (Nominal)			
1 Track	3ms	3ms	3ms
Average	12ms	12ms	12ms
Full Track	24ms	24ms	24ms
Average Latency			
Rotational Speed	71ms	71ms	71ms
	4,200 RPM	4,200 RPM	4,200 RPM
Read Technology			
	MEEPRML, ID-Less Format		
Internal Transfer Rate			
Recording Density	14.1-24.8 MB/s	14.1-24.8 MB/s	11.4-20.2 MB/s
Track Density	458,000 bpi	458,000 bpi	373,000 bpi
	37,600 tpi	37,600 tpi	37,600 tpi
Interface Transfer Rate			
	16.6 MB/s max. (PIO mode 4/Multiword DMA mode 2) / 66.6 MB/s max. (Ultra DMA mode 4)		
Data Buffer	2048 kB	512 kB	512 kB
Physical Specifications			
Dimensions			
Height	9.5 mm	9.5 mm	9.5 mm
Width	70 mm	70 mm	70 mm
Depth	100 mm	100 mm	100 mm
Weight	95 g	95 g	91 g
Power Requirements +5V +/-5%			
Seek	0.45 A (2.25W)	0.45 A (2.25W)	0.45 A (2.25W)
Spin-up	0.90 A (4.5W)	0.90 A (4.5W)	0.90 A (4.5W)
Idle	0.13 A (0.65W)	0.13 A (0.65W)	0.13 A (0.65W)
Read/Write	0.40 A (2.0W)	0.40 A (2.0W)	0.40 A (2.0W)
Sleep	0.020 A (0.1W)	0.020 A (0.1W)	0.020 A (0.1W)
Stand-by	0.050 A (0.25W)	0.050 A (0.25W)	0.050 A (0.25W)
Temperature			
Operating	5° to 55°C(41° to 131°F)		
Non-Operating	-40° to 70°C(-40° to 158°F)		
Environmental Conditions			
Relative Humidity			
Operating	5% to 90%		
Non-Operating	5% to 95%		
Max. Wet Bulb	29°C(84.2°F non-condensing)		
Shock			
Operating	180G or less, 2ms half sine wave		
Non-Operating	800 G or less, 1 ms half sine wave		
Vibration			
Operating	1.0G or less (22-500Hz)		
Non-Operating	5G or less (22-500Hz)		
Acoustic Noise			
Idle	25 dBA (typ.)	25 dBA (typ.)	25 dBA (typ.)
Reliability			
Preventive Maintenance	Not Required		
Error Rate (Unrecoverable Errors)	Less than 1 per 10 ¹³ bits read		
Identify Device Information for Setup (Addressing)			
Word 1 Number of CYL.	16383 (3FFFh)	16383 (3FFFh)	12416(3080h)
Word 3 Number of HD	16 (0010h)	16 (0010h)	15 (00Fh)
Word 6 Number of SPT	63 (3Fh)	63 (3Fh)	63 (3Fh)
Word 60 61 Total LBA	39070080(02542980h)	19640880(012BB230h)	11733120(B30880h)

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For more information

Internet:

- www.hgst.com

For other Hitachi products:

- 1 800 HITACHI (800 448 2244)

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