

WD Caviar® Special Edition

Western Digital EIDE Hard Drives

INTERFACE

EIDE

WIDTH/HEIGHT

3.5-inch/1-inch

CAPACITY

40 to 250 GB

PART NUMBERS

WD400JB WD600JB WD1000JB WD1200JB WD1600JB WD1800JB WD2000JB WD2500JB

Note: All products may not be available in all regions of the world. WD Caviar Special Edition hard drives are designed to maximize desktop computer performance for activities requiring high-performance storage such as computer gaming, digital video editing, and file server applications. Offering capacities as large as 250 GB and equipped with an 8 MB buffer—the largest buffer available today in a desktop EIDE hard drive—the WD Caviar Special Edition family delivers data to users faster than any hard drive in its class.

Superior Performance

The Special Edition hard drive provides a higher percentage of cache hits and significantly faster time to data than industry standard 2 MB versions. Within the complex operations of hard drives, the buffer is used to hold the results of recent reads from the disk and also to "pre-fetch" information that is likely to be requested in the near future. The use of an increased buffer improves the performance by reducing the number of physical accesses to the disk and allowing data to stream from the disk uninterrupted by mechanical operations.

Data Protection Enhancements

Data Lifeguard™ is an expanded set of data protection tools that includes shock protection, an environmental protection system, and embedded error detection and repair features that automatically find, isolate, and repair problem areas that may develop over the extended use of the hard drive. With these enhanced data reliability features, the drive can perform more accurate monitoring and error repair and deliver exceptional data security.

Data Lifeguard Tools™ is a set of software utilities that work in conjunction with the embedded Data Lifeguard features to make hard drive installation, drive management diagnostics, and repair simple and worry-free.

Shock Guard™ provides outstanding improvements in shock and vibration protection for the newest WD Caviar drives. Shock Guard allows instantaneous data protection at high shock values to achieve leading shock specifications.

IMPORTANT: Use Data Lifeguard Tools 10.0 or later installation software to access the full capacity of your hard drive. Hard drives larger than 137 GB require a controller card to utilize full drive capacity.

The Western Digital Promise

Western Digital understands the importance of the data stored on our hard drives. We are committed to providing our customers with reliable, high-performance storage products and superior customer support and services.





Western Digital EIDE Hard Drives

WD Caviar Special Edition Specifications

	40 GB	60 GB	80 GB	100 GB	120 GB	160 GB	180 GB	200 GB	250 GB
Physical Specifications									
Interface	EIDE								
Form factor	3.5-inch								
Formatted capacity 1	40,020 MB	60,022 MB	80,026 MB	100,030 MB	120,034 MB	160,041 MB	180,045 MB	200,049 MB	250,059 MB
Actuator type	Rotary Voice Coil								
Bytes per sector (STD)	512	512	512	512	512	512	512	512	512
User sectors per drive	78,165,360	117,231,408	156,301,488	195,371,568	234,441,648	312,581,808	351,651,888	390,721,968	488,397,168
Model numbers	WD400JB	WD600JB	WD800JB	WD1000JB	WD1200JB	WD1600JB	WD1800JB	WD2000JB	WD2500JB



Parformance Specifications

WD Caviar

Special Edition

	remonitative specific	ativiis								
	Average latency	4.2 ms								
	Rotational speed	7200 RPM								
Data transfer rate (Buffer to host)										
	- Mode 5 Ultra ATA ²	100 MB/s								
	- Mode 4 Ultra ATA ²	66.6 MB/s								
	- Mode 2 Ultra ATA ²	33.3 MB/s								
	- Mode 2 DMA ²	16.6 MB/s								
	- Mode 4 PIO ²	16.6 MB/s								
	Buffer	8 MB								
	Warranty	3 years								
	vvairaiity	o years								



8.9 ms (average) Average read seek Track-to-track seek 3 2.0 ms (average) Full stroke read seek 3 21 ms (average) Read cache Adaptive Write cache Yes Drive ready time 7.0 sec average 50,000 min Start/stop cycles Yes Master/slave support IORDY support Yes

Error rate (Non-recoverable) <1 in 10 14 bits read





On reads and writes.

For service and literature:

800.ASK.4WDC USA +31.20.4467651 Europe support.wdc.com www.westerndigital.com

Western Digital, the Western Digital logo, and WD Caviar are registered trademarks and Data Lifeguard, Data Lifeguard Tools, Shock Guard, and FIT Lab are trademarks of Western Digital Technologies, Inc. Other marks may be mentioned herein that belong to other companies. Product specifications subject to change without notice.

© 2003 Western Digital Technologies, Inc. All rights reserved.

Western Digital 20511 Lake Forest Drive Lake Forest, California 92630

2879-001044-007 S0828 05/03



Western Digital defines a megabyte (MB) as 1,000,000 bytes, and a gigabyte (GB) as 1,000,000,000 bytes. Maximum burst rate running the specified PIO, DMA, or Ultra ATA transfer mode.