

WD Caviar®



Western Digital

EIDE Hard Drives

INTERFACE

EIDE

WIDTH/HEIGHT

3.5-inch/1-inch

ROTATIONAL SPEED

7200 RPM

CAPACITIES

40 to 250 GB

MODEL NUMBERS

WD400BB
WD600BB
WD800BB
WD1200BB
WD1200LB
WD1600BB
WD2000BB
WD2000LB
WD2500BB
WD2500LB

Note: All products may not be available in all regions of the world.

The latest generation of Western Digital's award-winning WD Caviar Enhanced IDE (EIDE) hard drive family features new firmware innovations to achieve 80 GB per platter. Spinning at 7200 RPM and offering capacities as large as 250 GB, the latest WD Caviar hard drives combine the high performance and increased areal density required by today's capacity-hungry applications. Selected models are available with Fluid Dynamic Bearing (FDB) technology*, perfect for noise-sensitive computing environments.

Data Protection Enhancements

Data Lifeguard™ is an expanded set of data protection features that include 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 Data Lifeguard, 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 WD Caviar drives. Shock Guard allows instantaneous data protection at high shock values to achieve leading shock specifications.

IMPORTANT: Use Data Lifeguard Tools 11.0 or later installation software to access the full capacity of your hard drive. Hard drives larger than 137 GB may 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.

* Available by special order only.

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WD Caviar Specifications—7200 RPM

	40 GB	60 GB	80 GB	120 GB	160 GB	200 GB	250 GB
Physical Specifications							
Interface	EIDE	EIDE	EIDE	EIDE	EIDE	EIDE	EIDE
Form Factor	3.5-inch	3.5-inch	3.5-inch	3.5-inch	3.5-inch	3.5-inch	3.5-inch
Formatted Capacity ¹	40,020 MB	60,022 MB	80,026 MB	120,034 MB	160,041 MB	200,049 MB	250,059 MB
Actuator Type	Rotary	Rotary	Rotary	Rotary	Rotary	Rotary	Rotary
	Voice Coil	Voice Coil	Voice Coil	Voice Coil	Voice Coil	Voice Coil	Voice Coil
Bytes per Sector (STD)	512	512	512	512	512	512	512
User Sectors per Drive	78,165,360	117,231,408	156,301,488	234,441,648	312,581,808	390,721,968	488,397,168
Model Number	WD400BB	WD600BB	WD800BB	WD1200BB WD1200LB	WD1600BB	WD2000BB WD2000LB	WD2500BB WD2500LB

Performance Specifications

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	2 MB
Warranty ³	1-year
Average read seek	8.9 ms (average)
Track-to-track seek ⁴	2.0 ms (average)
Full stroke read seek ⁴	21 ms (average)
Read cache	Adaptive
Write cache	Yes
Drive ready time	7.0 sec (average)
Start/stop cycles	50,000 min
Master/slave support	Yes
IORDY support	Yes
Error rate (Non-recoverable)	<1 in 10 ¹⁴ bits read



For service and literature:

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¹ Western Digital defines a megabyte (MB) as 1,000,000 bytes and a gigabyte (GB) as 1,000,000,000 bytes. Windows® and Macintosh® operating systems use the binary numbering system, which results in a lower reported capacity.

² Maximum burst rate running the specified PIO, DMA, or Ultra ATA transfer mode.

³ One year standard warranty, unless otherwise required by law. For extended warranty information, visit our Web site at support.wdc.com.

⁴ On reads and writes.