

WD Caviar®

Desktop Hard Drives

Cool
Quiet
Reliable



Interface

SATA or EIDE

Width/Height

3.5-inch/1-inch

Rotational Speed

7200 RPM

Capacities

40 to 250 GB

Model Numbers

SATA	EIDE
WD400BD	WD400BB
WD800BD	WD800BB
WD1600AABS	WD1600AABB
	WD2000BB
	WD2500BB

WD Caviar SATA/EIDE hard drives are offered in capacities up to 250 GB, with performance geared to advanced and mainstream desktop personal computers. WD Caviar drives are built to the highest standards of quality and reliability because we understand the importance of data that is entrusted to our products.

Data Protection Enhancements

Data Lifeguard Tools™ — This software utility works with embedded Data Lifeguard™ features (including shock protection, an environmental protection system, and error detection and repair) to make hard drive installation, management, and diagnostics simple and worry-free.

The WD Promise



WD understands the importance of the information you save to your hard drive and we are committed to protecting that data with exceptionally reliable products, advanced data protection technology, and superior customer support. No one does more to safeguard your data than WD.

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



PUT YOUR LIFE ON IT®

WD Caviar

Desktop Hard Drives

Drive Specifications

SATA Hard Drives

	40 GB	80 GB	160 GB
Formatted capacity ¹	40,020 MB	80,026 MB	160,041 MB
User sectors per drive	78,165,360	156,301,488	312,581,808
WD model number	WD400BD	WD800BD	WD1600AABS



EIDE Hard Drives

	40 GB	80 GB	160 GB	200 GB	250 GB
Formatted capacity ¹	40,020 MB	80,026 MB	160,041 MB	200,049 MB	250,059 MB
User sectors per drive	78,165,360	156,301,488	312,581,808	390,721,968	488,397,168
WD model number	WD400BB	WD800BB	WD1600AABB	WD2000BB	WD2500BB



SATA/EIDE Hard Drives

Actuator latch/auto park	Yes
Bytes per sector (STD)	512
Dedicated landing site	Yes
Form factor	3.5-inch
RoHS compliant ²	Yes



Performance Specifications

SATA Hard Drives

Average latency	4.2 ms
Buffer	2 MB
Cache	
Read	Adaptive
Write	Yes
Data transfer rate	
Buffer to disk	972 Mbits/s (maximum)
Buffer to host ³	3 Gb/s (maximum)
Drive ready time	6.0 sec (maximum)
Error rate (non-recoverable)	<1 in 10 ¹⁴ bits read
LBA support	Yes
Rotational speed	7200 RPM
Seek time	
Full stroke read	21 ms (average)
Read	8.9 ms (average)
Track-to-track	2.0 ms (average)
Start/stop cycles	50,000 minimum

EIDE Hard Drives

Average latency	4.2 ms
Buffer	2 MB
Cache	
Read	Adaptive
Write	Yes
Data transfer rate (buffer to host)	
Mode 5 Ultra ATA ⁴	100 MB/s
Mode 4 Ultra ATA ⁴	66.6 MB/s
Mode 2 Ultra ATA ⁴	33.3 MB/s
Mode 2 DMA ⁴	16.6 MB/s
Mode 4 PIO ²	16.6 MB/s
Drive ready time	7.0 sec (average)
Error rate (non-recoverable)	<1 in 10 ¹⁴ bits read
LBA support	Yes
Rotational speed	7200 RPM
Seek time	
Full stroke read	21 ms (average)
Read	8.9 ms (average)
Track-to-track	2.0 ms (average)
Start/stop cycles	50,000 minimum



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¹One gigabyte (GB) = one billion bytes. One terabyte (TB) = one trillion bytes. Total accessible capacity varies depending on operating environment.

²WD products manufactured and sold worldwide after August 1, 2005, meet or exceed Restriction of Hazardous Substances (RoHS) compliance requirements as mandated by the European Union for electrical and electronic products. The RoHS Directive 2002/95/EC of the European Parliament, which is effective in the EU beginning July 1, 2006, aims to protect human health and the environment by restricting the use of certain hazardous substances in new equipment, and consists of restrictions on lead, mercury, cadmium, and other substances.

³Models WD400BD and WD800BD manufactured before December 1, 2005 have a buffer-to-host data transfer rate of 1.5 Gb/s.

⁴Maximum burst rate running the specified PIO, DMA, or Ultra ATA transfer mode.

