

WD Caviar® SE

Desktop Hard Drives

Fast
Cool
Quiet



Interface

SATA or EIDE

Width/Height

3.5-inch/1-inch

Rotational Speed

7200 RPM

Capacities

40 to 500 GB

Model Numbers

SATA	EIDE
WD400JD	WD400JB
WD800JD	WD800JB
WD1600AAJS	WD1200JB
WD1600JS	WD1600AAJB
WD2000JS	WD2000JB
WD2500JS	WD2500JB
WD2500AAJS	WD4000AAJB
WD3200AAJS	WD5000AAJB
WD4000AAJS	
WD5000AAJS	

Cool-running, superior performance, and industry-leading reliability make these drives the perfect hard drives for desktop, business, and consumer electronics storage — ideal for high-performance family computing such as photo editing, multimedia functions, and business applications such as spreadsheets and databases.

Product Benefits

Fast — WD, the first to introduce an 8 MB buffer, has advanced the caching algorithms of this new and improved family of hard drives, resulting in next-generation high performance.

Cool — Heat is a major contributor to hard drive wear, and cool drive operating temperatures help increase long-term drive reliability. WD achieves the lowest operating temperature of any hard drive in its class by lowering the drive's power consumption through advanced design of electronics and firmware.

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.

WD Caviar SE

Desktop Hard Drives

Drive Specifications

SATA Hard Drives	40 GB	80 GB	160 GB	200 GB	250 GB	320 GB	400 GB	500 GB
Formatted capacity ¹	40,020 MB	80,026 MB	160,041 MB	200,049 MB	250,059 MB	320,072 MB	400,088	500,107
User sectors per drive	78,165,360	156,301,488	312,581,808	390,721,968	488,397,168	625,142,448	781,422,768	976,773,168
WD model number	WD400JD	WD800JD	WD1600JS WD1600AAJS	WD2000JS	WD2500JS WD2500AAJS	WD3200AAJS	WD4000AAJS	WD5000AAJS

EIDE Hard Drives	40 GB	80 GB	120 GB	160 GB	200 GB	250 GB	400 GB	500 GB
Formatted capacity ¹	40,020 MB	80,026 MB	120,034 MB	160,041 MB	200,049 MB	250,059 MB	400,088	500,107
User sectors per drive	78,165,360	156,301,488	234,441,648	312,581,808	390,721,968	488,397,168	781,422,768	976,773,168
WD model number	WD400JB	WD800JB	WD1200JB	WD1600JB WD1600AAJB	WD2000JB	WD2500JB	WD4000AAJB	WD5000AAJB



SATA Hard Drives

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

EIDE Hard Drives

Actuator type	Rotary voice coil
Bytes per sector (STD)	512
Form factor	3.5-inch
RoHS compliant ²	Yes



Performance Specifications

SATA Hard Drives

Average latency	4.2 ms
Buffer	8 MB
Cache	
Read	Adaptive
Write	Yes
Data transfer rate	
Buffer to disk	972 Mbits/s (maximum)
Buffer to host	3 Gb/s (maximum)
Drive ready time	12.5 sec (maximum)
Error rate (non-recoverable)	<1 in 10 ¹⁵ bits read
LBA support	Yes
Rotational speed	7200 RPM
Start/stop cycles ³	50,000 minimum

EIDE Hard Drives

Average latency	5.5 ms
Buffer	8 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 Ultra DMA ⁴	16.6 MB/s
Mode 4 Ultra PIO ⁴	16.6 MB/s
Drive ready time	7.0 sec (average)
Error rate (non-recoverable)	<1 in 10 ¹⁵ bits read
LBA support	Yes
Rotational speed	7200 RPM
Start/stop cycles ³	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.

³Controlled unload at ambient condition.

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

