WD Caviar® SE | Fast Cool Quiet



INTERFACE

SATA or EIDE

WIDTH/HEIGHT

3.5-inch/1-inch

ROTATIONAL SPEED

7200 RPM

CAPACITIES

40 to 320 GB

MODEL NUMBERS

EIDE	SAIA
WD400JB	150 MB/s
WD800JB	WD1200JD
WD1200JB	WD1600JD
WD1600JB	WD2000JD
WD2000JB	WD2500JD
WD2500JB	MD30001D
WD3000JB	WD3200JD
ND3200JB	300 MB/s
	WD400JD
	MD800JD
	WD1200JS
	WD1600JS
	WD2000JS
	WD2500JS
	WD3000JS
	WD3200JS

Note: Not all products may be available in all regions of the world. Cool-running, quiet operation, 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 WD Caviar family of hard drives, resulting in next-generation
 high performance performance that beats all competing 8 MB cache drives.
- 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.
- Quiet Today's PCs, digital video recorders, and gaming machines are increasingly operated in environments where noise is less tolerated. WD minimizes WD Caviar noise to levels virtually below the threshold of human hearing with its WhisperDrive[™] technology which features a highly efficient power driver design. And to cut seek noise, SoftSeek[™] technology streamlines read/write seeking algorithms, resulting in the drive operating more efficiently when accessing and writing data.
- 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.

SATA-specific Features

- SecureConnect[™] provides a 500 percent stronger cable-to-drive connection than first-generation SATA hard drives and cables. Also ensures backward compatibility with legacy SATA cables and backplanes.
 - Note: WD's SATA cable with SecureConnect is recommended for use with all WD SATA hard drives.
- FlexPower[™] connector technology that accepts power from both industry-standard and new SATA power supplies.

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.



WD Caviar® SE **SATA/EIDE Hard Drives**



Drive Specifications

SATA Hard Drives	40 GB	80 GB	120 GB	160 GB	200 GB	250 GB	300 GB	320 GB
Formatted capacity ¹ User sectors per drive WD model number	40,020 MB 78,165,360	80,026 MB 156,301,488	120,034 MB 234,441,648	160,041 MB 312,581,808	200,049 MB 390,721,968	250,059 MB 488,397,168	300,069 MB 586,072,368	320,072 MB 625,142,448
150 MB/s 300 MB/s	WD400JD	WD800JD	WD1200JD WD1200JS	WD1600JD WD1600JS	WD2000JD WD2000JS	WD2500JD WD2500JS	WD3000JD WD3000JS	WD3200JD WD3200JS
EIDE Hard Drives	40 GB	80 GB	120 GB	160 GB	200 GB	250 GB	300 GB	320 GB
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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?	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	748 Mbits/s (maximum
Buffer to host	
JD models ³	150 MB/s (maximum)
JS models ³	300 MB/s (maximum)
Drive ready time	9.0 sec (average)
Error rate (non-recoverable)	<1 in 1014 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 Accessed International

Average latency	4.2 ms		
Buffer	8 MB		
Cache			
Read	Adaptive		
Write	Yes		
Data transfer rate (buffer to host	1		
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*	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 1014 bits rea		
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		

For service and literature

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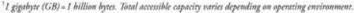
800:ASK.4WDC	North America
949.672.7199	Spanish
+800 5008 5008	Asia Pacific
+31.20.4467651	EMEA

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20511 Lake Forest Drive Lake Forest, California 92630

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WD products manufactured and sold worldwide after August 1, 2005, meet or exceed Restriction of Hazardous Substances (RoHS) compliance requirements as manufated 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 comists of restrictions on lead, mercury, cadmium, and other substances.



³Modeli WD400JD and WD800JD manufactured before December 1, 2005 have a buffer-to-bost data transfer rate of 150 MB/s.

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