

WD Caviar® SE

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

WD400JB
WD600JB
WD800JB
WD1200JB
WD1200PB
WD1600JB
WD2000JB
WD2000PB
WD2500JB
WD2500PB

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

WD Caviar SE 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 SE family delivers data to users faster than any hard drive in its class. Selected models are available with Fluid Dynamic Bearing (FDB) technology*, perfect for noise-sensitive computing environments.

Superior Performance

SE hard drives provide 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 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 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 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 WD Caviar SE 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.



WD Caviar SE



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WD Caviar SE Specifications

	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 Voice Coil	Rotary Voice Coil	Rotary Voice Coil	Rotary Voice Coil	Rotary Voice Coil	Rotary Voice Coil	Rotary 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 numbers	WD400JB	WD600JB	WD800JB	WD1200JB WD1200PB	WD1600JB	WD2000JB WD2000PB	WD2500JB WD2500PB

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	8 MB
Warranty	3-year
Average read seek	8.9 ms (average)
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
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:

800.ASK.4WDC U.S.A.
+31.20.4467651 Europe
support.wdc.com
www.westerndigital.com

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Western Digital
20511 Lake Forest Drive
Lake Forest, California 92630 U.S.A.

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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 On reads and writes.