

WD Caviar® SE



Western Digital

Serial ATA Hard Drives

INTERFACE

1.5 Gb/s
(Serial ATA 1.0)

WIDTH/HEIGHT

3.5-inch/1-inch

ROTATIONAL SPEED

7200 RPM

CAPACITIES

120 to 250 GB

MODEL NUMBERS

WD1200JD
WD1600JD
WD2000JD
WD2500JD

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

Western Digital offers WD Caviar SE Serial ATA (SATA) hard drives with features and capacities that are ideal for next-generation computers and low-end enterprise storage. Users benefit from a data transfer rate performance roadmap that begins with 150 MB/s and extends to 600 MB/s, as well as improved cabling that enables greater system design flexibility. Designers of enterprise storage systems and servers are increasingly using desktop-class, large-capacity SATA hard drives because of the advantages that the SATA interface provides.

Product Benefits

- **8 MB cache buffer** – fast data transfer from a cache four times larger than the industry-standard 2 MB size.
- **7200 RPM** – high-performance rotational speed for high-capacity hard drives.
- **Data Lifeguard Tools™** – software utility that works in conjunction with the embedded Data Lifeguard features (including shock protection, an environmental protection system, and embedded error detection and repair features) to make hard drive management diagnostics and repair simple and worry-free.
- **SecureConnect™** – provides a 500 percent stronger cable-to-drive connection than first-generation SATA hard drives and cables; ensures backward compatibility with legacy SATA cables and backplanes.
- **FlexPower™** – connector technology that accepts power from both industry-standard and new SATA power supplies.
- **Point-to-point bus configuration** – utilizes the full bandwidth of each drive interface in a networked environment.
- **Hot plug support** – ability to swap out a hard drive without having to power down the system or reboot promotes system design flexibility, data availability, and serviceability.
- **Backplane compatibility** – promotes expandability and flexibility in system architecture.
- **Longer, narrower cable** – prevents incorrect mating and bent pins, providing greater reliability and reduced service calls.

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.

WD Caviar SE



Western Digital Serial ATA Hard Drives

Physical Specifications

	120 GB	160 GB	200 GB	250 GB
Model numbers	WD1200JD	WD1600JD	WD2000JD	WD2500JD
Formatted capacity ¹	120,034 MB	160,041 MB	200,049 MB	250,059 MB
User sectors per drive	234,441,648	312,581,808	390,721,968	488,397,168
Interface	1.5 Gb/s Interface (Serial ATA 1.0)	1.5 Gb/s Interface (Serial ATA 1.0)	1.5 Gb/s Interface (Serial ATA 1.0)	1.5 Gb/s Interface (Serial ATA 1.0)
Bytes per sector (STD)	512	512	512	512
Dedicated landing zone	Yes	Yes	Yes	Yes
Actuator latch/auto park	Yes	Yes	Yes	Yes
Warranty ²	3-year	3-year	3-year	3-year

Performance Specifications

Data Transfer Rate

-Buffer to host	150 MB/s ³
-Buffer to disk	748 Mbits/s max
Average read seek	8.9 ms (average)
Track-to-track seek ⁴	2.0 ms (average)
Full stroke read seek ⁴	21 ms (average)
Average latency	4.2 ms
Rotational speed	7200 RPM
Read cache	Adaptive
Write cache	Yes
Buffer	8 MB
Drive ready time	9.0 sec average
Start/stop cycles	50,000 min
LBA support	Yes
Error rate (non-recoverable)	<1 in 10 ¹⁴ bits read



For service and literature:

800.ASK.4WDC USA
+31.20.4467651 Europe
support.wdc.com
www.westerndigital.com

Western Digital, the Western Digital logo, and WD Caviar are registered trademarks, and Data Lifeguard, Data Lifeguard Tools, SecureConnect, FlexPower, and FIT Lab are trademarks of Western Digital Technologies, Inc. Other marks may be mentioned herein that belong to other companies. Product specifications subject to change without notice.

©2003 Western Digital Technologies, Inc.
All rights reserved.

Western Digital
20511 Lake Forest Drive
Lake Forest, California 92630

2879-001081-000 S0938 06/03

¹Western Digital defines a megabyte (MB) as 1,000,000 bytes, and a gigabyte (GB) as 1,000,000,000 bytes.

²Three-year standard warranty on WD Caviar Special Edition hard drives. This standard warranty may be subject to variations imposed by local law or regulations.

³Effective maximum transfer rate running Serial ATA 1.0.

⁴On reads and writes.