WD Caviar® SE

Western Digital
Serial ATA Hard Drives

Carrying on the heritage of WD Caviar SE hard drives as industry-leading performers, Western Digital offers WD Caviar SE Serial ATA (SATA) hard drives which feature capacities as large as 250 GB and an 8 MB buffer, to fill acute demand in market segments such as high-end PC, workstation, and entry-level servers. Designers of enterprise storage systems and servers are increasingly using desktop-class, large-capacity SATA hard drives because of the advantages provided by the SATA interface. Benefits include a data transfer rate of 150 MB/s and improved cabling that enables greater system design flexibility.

Product Benefits

- **8 MB cache** – 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 installation, management, and diagnostics 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.

  Note: Western Digital's Serial ATA cable with SecureConnect is recommended for use with all Western Digital Serial ATA hard drives.

- **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** – allows swapping of hard drives 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.

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.

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Physical Specifications

	40 GB	80 GB	120 GB	160 GB	200 GB	250 GB
Model number	WD400JD	WD800JD	WD1200JD	WD1600JD	WD2000JD	WD2500JD
Interface	1.5 Gb/s	1.5 Gb/s	1.5 Gb/s	1.5 Gb/s	1.5 Gb/s	1.5 Gb/s
	(Serial ATA 1.0)	(Serial ATA 1.0)	(Serial ATA 1.0)	(Serial ATA 1.0)	(Serial ATA 1.0)	(Serial ATA 1.0)
Form factor	3.5-inch	3.5-inch	3.5-inch	3.5-inch	3.5-inch	3.5-inch
Formatted capacity[1]	40,020 MB	80,026 MB	120,034 MB	160,041 MB	200,049 MB	250,059 MB
User sectors per drive	78,165,360	156,301,488	234,441,648	312,581,808	390,721,968	488,397,168
Bytes per sector (STD)	512	512	512	512	512	512
Dedicated landing zone	Yes	Yes	Yes	Yes	Yes	Yes
Actuator latch/auto park	Yes	Yes	Yes	Yes	Yes	Yes
Warranty[2]	3-year	3-year	3-year	3-year	3-year	3-year

Performance Specifications

Data Transfer Rate	
-Buffer to host[3]	150 MB/s
-Buffer to disk	748 Mbits/s max
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

[1] *Western Digital defines a megabyte (MB) as 1,000,000 bytes and a gigabyte (GB) as 1,000,000,000 bytes. Some operating systems use the binary numbering system which results in a lower reported capacity.*
[2] *Three-year standard warranty on bulk WD Caviar SE Serial ATA hard drives. This standard warranty may be subject to variations imposed by local law or regulations.*
[3] *Effective maximum transfer rate running Serial ATA 1.0.*
[4] *On reads and writes.*

Western Digital

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