WD Caviar[®] SE16 SATA Hard Drives

Lightning Fast Cool Quiet



INTERFACE

SATA 150 or 300 MB/s

WIDTH/HEIGHT

3.5-inch/1-inch

ROTATIONAL SPEED

7200 RPM

CAPACITIES

250 to 500 GB

MODEL NUMBERS

WD2500KS WD3200KS WD4000KD WD4000KS WD5000KS

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

WD Caviar SE16 native SATA hard drives feature 16 MB cache for lightning-fast performance and up to 500 GB of storage for capacity-hungry applications.

Product Features

- Large capacity up to 500 GB of storage ideal for graphic design, video editing, gaming, advanced business computing, and other high-end desktop applications.
- 16 MB cache bigger cache means faster performance. A massive cache combined with up to 300 MB/s transfer rate make these ultrafast drives the perfect solution for fully loaded PCs with fast processors.
- Cool designed to have the lowest power consumption of any high-capacity, desktop-class hard drive, which lowers the operating temperature for enhanced drive reliability. That's why these drives are the drives of choice for the world's leading consumer electronics manufacturers as well as the world's leading PC makers.
- Quiet Today's PCs, digital video recorders, and gaming machines are increasingly operated in environments where noise is less tolerated. With its WhisperDrive[™] and SoftSeek[™] technologies, WD minimizes noise to levels virtually imperceptible to the human ear.
- FlexPower[™] connector technology that accepts power from either industry-standard or new SATA power supplies.
- SATA latching connector provides a secure connection between the hard drive and the cable by using a locking latch mechanism.
- 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.

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 SE16 **SATA Hard Drives**

Drive Specifications

Formatted capacity1 User sectors per drive SATA latching connector WD model number

Actuator type Bytes per sector (STD)

Form factor

WDxx00KS

RoHS compliant²

Average latency Buffer

Data transfer rate Buffer to host

Buffer to disk

Error rate (non-recoverable)

Drive ready time

Rotational speed Seek time Full stroke

Track-to-track

Start/stop cycles

LBA support

Read

Cache Read

Write

Performance Specifications

Interface WD4000KD 250,059 MB 488,397,168 Yes WD2500KS

512

Yes

WDxx00KS

4.2 ms (nominal)

3.5-inch

Rotary voice coil

Native SATA 150 MB/s

Native SATA 300 MB/s

250 GB

320 GB 400 GB 400,088 MB 320,072 MB 625,142,448 781,422,768 Yes WD4000KD WD3200KS WD4000KS

Yes

Yes

500,107 MB 976,773,168 WD5000KS

500 GB

- IS BIR LOOK







For service and literature:

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16 MB
Adaptive Yes
300 MB/s (maximum)

70 MB/s (sustained) 9.0 sec (average) <1 in 10¹⁴ bits read Yes 7200 RPM

21 ms (average) 8.9 ms (average) 2.0 ms (average) 50,000 (minimum)

Adaptive Yes 150 MB/s (maximum)³ 65 MB/s (sustained)

WD4000KD

16 MB

4.2 ms (nominal)

12.0 sec (average) <1 in 1015 bits read Yes 7200 RPM

21 ms (average) 8.7 ms (average) 0.6 ms (average) 50,000 (minimum)

¹WD 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. ²WD complies with the Restriction of Hazardous Substances (RoHS) Directive 2002/95/EC of the European Parliament, which is effective in the EU beginning July 1, 2006. RoHS 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. ³Effective native SATA 150 MB/s transfer rate.

