

WD Caviar Blue WD6400AAKS - hard drive - 640 GB - SATA-300

**Description:** This Western Digital Caviar Blue WD6400AAKS is a 640GB, standard hard disk drive. Compared to other standard hard drives on the market, it is very inexpensive at around \$75. Its burst transfer rate (which is how fast the drive moves data already in its cache into your computer) is 300 MBps. This is a 7200 rpm drive and has a 16MB cache.

**Pros:** Has a 16MB buffer, which is considerably larger than some similarly priced hard drives. In fact, the average cost of a product with this large a buffer is \$200. This drive comes with a Serial ATA-300 controller interface—one of the fastest technologies for data transfer.

**Cons:** None noted, given available product data.

**Suitability:** Suitable for replacement or upgrade on many desktop PCs or workstations.

**Value:** In view of its very inexpensive price, this hard drive has great features for the money.

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## General

- **Device Type** Hard drive - Internal hard drive
- **Width** 4 in
- **Depth** 5.8 in
- **Height** 1 in
- **Weight** 1.4 lbs

## Hard Drive

- **Form Factor** [3.5" x 1/3H](#)
- **Capacity** [640 GB](#)
- **Interface Type** Serial ATA-300
- **Buffer Size** 16 MB
- **Features** SecurePark,  
StableTrac,  
IntelliSeek,  
Perpendicular Magnetic Recording (PMR)
- **Compliant Standards** S.M.A.R.T.

## Performance

- **Drive Transfer Rate** [300 MBps](#)
- **Seek Time** 8.9 ms (average)
- **Track-to-Track Seek Time** 2 ms

- **Average Latency** 4.2 ms
- **Spindle Speed** [7200 rpm](#)

## Reliability

- **Storage Hard Drive / Non-Recoverable Errors** 1 per 10<sup>15</sup>
- **Start / Stop Cycles** 50,000

## Storage Controller

- **Type** None

## Expansion / Connectivity

- **Interfaces** 1 x Serial ATA-300 - 7 pin Serial ATA
- **Compatible Bays** 1 x Internal - 3.5" x 1/3H
- **Compatible Slots** x None

## Miscellaneous

- **Microsoft Certifications** Works with Windows Vista
- **Compliant Standards** RoHS

## Manufacturer Warranty

- **Service & Support** 3 years warranty
- **Service & Support Details** Limited warranty - 3 years

## Environmental Parameters

- **Min Operating Temperature** 32 ½°F
- **Max Operating Temperature** 140 ½°F
- **Humidity Range Operating** 5 - 95%
- **Vibration Tolerance** 0.75 g @ 20-300 Hz (operating) / 4 g @ 20-500 Hz (non-operating)
- **Sound Emission** 28 dBA