

Western Digital

EIDE Hard Drives



The award-winning WD Caviar family provides the best combination of performance, reliability, and value for today's mainstream desktop systems. The latest generation of WD Caviar Enhanced IDE (EIDE) hard drives offers 7200 and 5400 RPM performance, giant magnetoresistive (GMR) technology, Ultra ATA/66, and Data Lifeguard™ to maximize drive performance and ensure data integrity.



DATA LIFEGUARD™

The next generation in a series of Western Digital data protection innovations is incorporated into the latest enhancement of Data Lifeguard. The expanded set of data reliability features include shock protection, drive error diagnostics and correction utility, environmental protection system, and ECC (Error Correction Code). This means faster, more accurate monitoring and error repair plus exceptional data security. All of our EIDE hard drives include Data Lifeguard Tools, 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.

ULTRA ATA/66

Introduced first to the market by Western Digital, this second generation hard drive interface transfers data at 66.6 MB per second. Ultra ATA/66 allows host computers to send and receive data at higher rates resulting in increased performance and data integrity. Ultra ATA/66 is also backward-compatible.

GMR HEAD TECHNOLOGY

As the demand for maximum storage capacity and greater reliability increases, drive head technology keeps pace with its latest advance—giant magnetoresistive (GMR) heads. These heads provide three times more areal density than AMR heads, resulting in greater reliability, improved performance, and lower storage costs.

IMPORTANT: Use Data Lifeguard Tools 2.2 or later installation software to access the full capacity of your 8.4 GB and larger hard drives.

INTERFACE

EIDE

WIDTH/HEIGHT

3.5-inch/1-inch

CAPACITY

6.4 to 30.7 GB

PART NUMBERS

WD Caviar Product Line

WD64AA
WD84AA
WD102AA
WD102BA
WD136AA
WD136BA
WD153BA
WD205AA
WD205BA
WD307AA

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EIDE Hard Drives

WD Caviar™



WD Caviar Drive Specifications

	6.4 GB	8.4 GB	10.2 GB	10.2 GB ³	13.6 GB	13.6 GB ³
Physical Specifications						
Interface	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
Formatted Capacity ¹	6448 MB	8455 MB	10,262 MB	10,254 MB	13,601 MB	13,676 MB
Actuator Type	Voice Coil	Voice Coil	Voice Coil	Voice Coil	Voice Coil	Voice Coil
Bytes per Sector (STD)	512	512	512	512	512	512
User Sectors per Drive	12,594,960	16,514,064	20,044,080	20,028,960	26,564,832	26,712,000
Model Numbers	WD64AA	WD84AA	WD102AA	WD102BA	WD136AA	WD136BA

Performance Specifications

Average Latency	5.5 ms	5.5 ms	5.5 ms	4.2 ms	5.5 ms	4.2 ms
Rotational Speed	5400 RPM	5400 RPM	5400 RPM	7200 RPM	5400 RPM	7200 RPM
Data Transfer Rate (Buffer to Host)						
- Mode 4 Ultra ATA ²	66.6 MB/s	66.6 MB/s	66.6 MB/s	66.6 MB/s	66.6 MB/s	66.6 MB/s
- Mode 2 Ultra ATA ²	33.3 MB/s	33.3 MB/s	33.3 MB/s	33.3 MB/s	33.3 MB/s	33.3 MB/s
- Mode 2 DMA ²	16.6 MB/s	16.6 MB/s	16.6 MB/s	16.6 MB/s	16.6 MB/s	16.6 MB/s
- Mode 4 PIO ²	16.6 MB/s	16.6 MB/s	16.6 MB/s	16.6 MB/s	16.6 MB/s	16.6 MB/s
Buffer	2 MB	2 MB	2 MB	2 MB	2 MB	2 MB
Warranty	3 years	3 years	3 years	3 years	3 years	3 years

	15.3 GB ³	20.5 GB	20.5 GB ³	30.7 GB
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Physical Specifications

Interface	EIDE	EIDE	EIDE	EIDE
Form Factor	3.5-inch	3.5-inch	3.5-inch	3.5-inch
Formatted Capacity ¹	15,382 MB	20,520 MB	20,525 MB	30,758 MB
Actuator Type	Voice Coil	Voice Coil	Voice Coil	Voice Coil
Bytes per Sector (STD)	512	512	512	512
User Sectors per Drive	30,043,440	40,079,088	40,088,160	60,074,784
Model Number	WD153BA	WD205AA	WD205BA	WD307AA

Performance Specifications

Average Latency	4.2 ms	5.5 ms	4.2 ms	5.5 ms
Rotational Speed	7200 RPM	5400 RPM	7200 RPM	5400 RPM
Data Transfer Rate (Buffer to Host)				
- Mode 4 Ultra ATA ²	66.6 MB/s	66.6 MB/s	66.6 MB/s	66.6 MB/s
- Mode 2 Ultra ATA ²	33.3 MB/s	33.3 MB/s	33.3 MB/s	33.3 MB/s
- Mode 2 DMA ²	16.6 MB/s	16.6 MB/s	16.6 MB/s	16.6 MB/s
- Mode 4 PIO ²	16.6 MB/s	16.6 MB/s	16.6 MB/s	16.6 MB/s
Buffer	2 MB	2 MB	2 MB	2 MB
Warranty	3 years	3 years	3 years	3 years

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

² Maximum burst rate running the specified PIO, DMA, or Ultra ATA transfer mode.

³ Pending Microsoft Windows certification.



For service and literature:

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