

# WD Raptor® SATA Hard Drives

Killer Speed  
Unsurpassed Reliability  
Optimum Value



## INTERFACE

SATA 1.5 Gb/s

## WIDTH/HEIGHT

3.5-inch/1-inch

## ROTATIONAL SPEED

10,000 RPM

## CAPACITIES

36 GB  
74 GB

## MODEL NUMBERS

WD360GD  
WD740GD

## A New Breed of Hard Drive

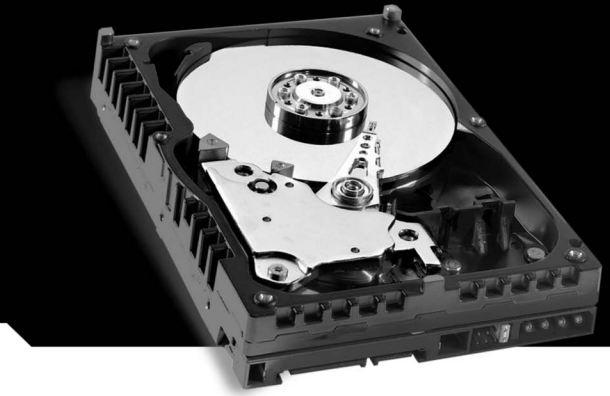
Some hard drive companies design desktop-class drives with the SATA interface. To meet the demands of enterprise storage, WD is going one better. WD is the only company combining an enterprise-class mechanical platform with the SATA interface to meet all the demands of the enterprise environment – reliability, performance, and reduced cost.

## Product Benefits

WD's Enterprise SATA hard drives are a class of hard drives that matches SCSI reliability and performance while providing simplified connectivity – all at significantly less cost than Parallel SCSI drives. WD Raptor maintains the high standards and lowers the cost of enterprise data storage.

- **Built for speed** – with 10,000 RPM rotational disk speed and average data seek as fast as 4.5 ms. Exceeds SCSI 10,000 RPM products in workstation benchmarks.
- **Enterprise-class throughput** – includes WD's Ultra/150 Command Queuing technology that optimizes the sequence of data transfers to the hard drive from the host, providing increased data transfer efficiency resulting in higher performance for enterprise applications.
- **Built for reliability** – features a rugged, enterprise-class, mechanical platform with fluid dynamic bearings and high-end actuator.
- **Built to last** – made for years of high-performance operation around the clock. Mean Time Between Failure (MTBF) has been calculated at 1.2 million hours.
- **Built for enterprise environments** – includes Enterprise Extensions S.M.A.R.T. Accessed (EESA), an expanded command set that provides SCSI-like control for server environments, as well as Rotary Acceleration Feed Forward (RAFF™) that optimizes operation and performance when the drives are used in vibration-prone multi-drive systems, such as rack-mounted servers.
- **Built with a backing** – carries WD's five-year warranty.
- **Built for value** – offers the performance and reliability of Parallel SCSI drives at significantly less cost.

# WD Raptor SATA Hard Drives



## Physical Specifications

	36 GB	74 GB
Formatted capacity <sup>1</sup>	37,019 MB	74,356 MB
User sectors per drive	72,303,840	146,226,112
WD model number	WD360GD	WD740GD
SATA latching connector	Yes	
Bytes per sector (STD)	512	
Form factor	3.5-inch	
Interface	SATA 1.5 Gb/s	
RoHS compliant <sup>2</sup>	Yes	

## Performance Specifications

Average latency	2.99 ms
Buffer	8 MB
Cache	
Read	Adaptive
Write	Yes
Data transfer rate (buffer to host)	150 MB/s (maximum) <sup>3</sup>
Drive ready time	7.0 sec (average), 10 sec (maximum)
Error rate (non-recoverable)	<1 in 10 <sup>15</sup> bits read
LBA support	Yes
MTBF	1,200,000
Rotational speed	10,000 RPM
Seek time	
Read	4.5 ms (average)
Write	5.1 ms (average)
Track-to-track seek	
Read	0.3 ms (average), 0.6 (maximum)
Write	0.4 ms (average), 0.75 (maximum)
Start/stop cycles	20,000 minimum
Warranty <sup>4</sup>	5-year



## For service and literature:

[support.wdc.com](http://support.wdc.com)  
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<sup>1</sup>WD 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.

<sup>2</sup>WD products manufactured and sold worldwide after August 1, 2005, meet or exceed Restriction of Hazardous Substances (RoHS) compliance requirements as mandated by the European Union for electrical and electronic products. The RoHS Directive 2002/95/EC of the European Parliament, which is effective in the EU beginning July 1, 2006, 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.

<sup>3</sup>Maximum burst rate running the specified SATA transfer mode.

<sup>4</sup>Five-year standard warranty unless otherwise required by law. For extended warranty information, visit our Web site at [support.wdc.com](http://support.wdc.com).