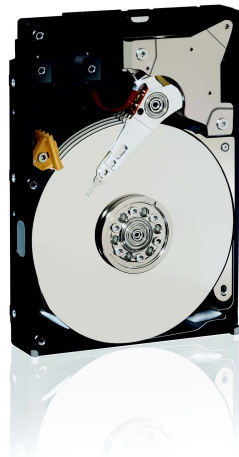


WD RE2

Enterprise Hard Drives

Enterprise-class
1.2 million hours MTBF
24 x 7 reliability



Interface

SATA

Width/Height

3.5-inch/1-inch

Rotational Speed

7200 RPM

Capacities

160 to 750 GB

Model Numbers

WD7500AYYS
WD5001ABYS
WD5000ABYS
WD4001ABYS
WD4000ABYS
WD3201ABYS
WD1601ABYS

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

With 1.2 million hours MTBF, 5-year limited warranty, 3 Gb/s SATA technology, and enhanced vibration tolerance, WD RE2 drives offer an ideal combination of reliability, high capacity, and optimum performance for enterprise applications.

Product Benefits

Superior reliability - Designed and manufactured to provide server-class reliability in high duty cycle environments. With 1.2 million hours MTBF, these drives have the highest available reliability rating on a high-capacity drive.

High capacity - Up to 750 GB of storage packed with server-class features and low cost-per-gigabyte value.

Fast - With a 3 Gb/s data transfer rate, native command queuing (NCQ), and 16 MB cache, these drives deliver optimum performance.

RAID-specific, Time-Limited Error Recovery (TLER) - Significantly reduces drive fallout caused by the extended hard drive error-recovery processes common to desktop drives.

Rotary Acceleration Feed Forward (RAFF™) - Provides enhanced vibration tolerance by optimizing operation and performance when the drives are used in vibration-prone, multidrive systems such as rack-mounted servers or network storage.

5-year limited warranty

Applications

Servers, network attached storage, scientific computing, life sciences, video surveillance, enterprise backup, software build systems, document and image management, audio/video media applications, other demanding write-intensive applications.

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 RE2

Enterprise Hard Drives

Drive Specifications

	160 GB	320 GB	400 GB	500 GB	750 GB
Formatted capacity ¹	160,041 MB	320,072 MB	400,088 MB	500,107 MB	750,156 MB
User sectors per drive	312,581,808	625,142,448	781,422,768	976,773,168	1,465,149,168
Model number	WD1601ABYS	WD3201ABYS	WD4000ABYS WD4001ABYS	WD5000ABYS WD5001ABYS	WD7500AYYS
Actuator latch/auto park	Yes	Yes	Yes	Yes	Yes
Bytes per sector (STD)	512	512	512	512	512
Dedicated landing zone	Yes	Yes	Yes	Yes	Yes
Form factor	3.5-inch	3.5-inch	3.5-inch	3.5-inch	3.5-inch
Interface	SATA 3 Gb/s	SATA 3 Gb/s	SATA 3 Gb/s	SATA 3 Gb/s	SATA 3 Gb/s
Native Command Queuing	Yes	Yes	Yes	Yes	Yes
RoHS compliant ²	Yes	Yes	Yes	Yes	Yes



Performance Specifications

Average latency	4.2 ms
Buffer	16 MB
Cache	
Read	Adaptive
Write	Yes
Data transfer rate	
Buffer to host ³	3 Gb/s (maximum)
Buffer to disk ⁴	98 MB/s (sustained)
Drive ready time	12.0 sec (average)
Error rate (non-recoverable)	<1 in 10 ¹⁵ bits read
LBA support	Yes
MTBF ⁵	1,200,000 hours
Rotational speed	7200 RPM
Seek time	
Full stroke	21 ms (average)
Read	8.9 ms (average)
Track-to-Track	0.6 ms (average)
Limited warranty	5-year

Physical Dimensions

Height	1.028 in (25.4 mm)
Length	5.787 in (147.0 mm)
Width	4.0 in (101.6 mm) ±0.01 in
Weight ⁴	1.61 lb (0.73 kg) ±10%

Environmental Specification⁶

Shock

Operating (2 ms)	30G (write), 65G (read)
Non-operating (1 ms)	250G

Note: Half-sine wave, measured in 2 ms duration and without isolation.

Vibration

Operating	
Random	0.004 g ² /Hz (10 to 300 Hz) 0.008 g ² /Hz (300 to 500 Hz)
Linear	20–300 Hz, 0.75G (0 to peak)
Non-operating	
Random	0.05 g ² /Hz (10 to 300 Hz) 0.01 g ² /Hz (300 to 500 Hz)
Linear	20–500 Hz, 4.0G (0 to peak)

Operating Temperature and Humidity

Temperature	5°C to 55°C
Humidity	5–95% RH non-condensing
Thermal gradient	20°C/hour (maximum)

Non-Operating Temperature and Humidity

Temperature	–40°C to 65°C
Humidity	5–95% RH non-condensing
Thermal gradient	30°C/hour

Acoustics (Average)⁴

Idle mode ⁷	28 dBA
Performance seek mode ⁸	34 dBA
Quiet seek mode	30 dBA



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¹ One gigabyte (GB) = one billion bytes. One terabyte (TB) = one trillion bytes. Total accessible capacity varies depending on operating environment.

² 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.

³ Effective maximum SATA 3 Gb/s transfer rate.

⁴ Maximum drive capacity model.

⁵ After 24 power-on hours.

⁶ No non-recoverable errors during operating test or after non-operating tests.

⁷ 20 KHz cutoff.

⁸ Sound power level.