WD Protégé®

Western Digital
EIDE Hard Drives

Western Digital's WD Protégé hard drives are designed for the value segment of the desktop PC market. Ideal for entry-level PCs, this member of the WD family offers the same quality, reliability, and service you've come to expect with all Western Digital hard drives.

Data Protection Enhancements

Data Lifeguard™ is an expanded set of data protection tools that includes shock protection, an environmental protection system, and embedded error detection and repair features that automatically find, isolate, and repair problem areas that may develop over the extended use of the hard drive. With these enhanced data reliability features, the drive can perform more accurate monitoring and error repair and deliver exceptional data security.

Data Lifeguard Tools™ is 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.

Shock Guard™ provides outstanding improvements in shock and vibration protection for WD Protégé drives. Shock Guard allows instantaneous data protection at high shock values to achieve leading shock specifications.

IMPORTANT: Use Data Lifeguard Tools 10.0 or later installation software to access the full capacity of your hard drive.

Superior Reliability

The WD Protégé design offers superior servo performance and areal density. For added robustness, WD uses thicker platters and has enhanced the shock levels with a new cover design and additional baseplate stiffening. This new flexible platform can be used for multiple generations to come.

The Western Digital Promise

Western Digital understands the importance of the data stored on our hard drives. We are committed to providing our customers with reliable, high-performance storage products and superior customer support and services.

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WD Protégé Specifications

	20 GB	40 GB	60 GB	80 GB	120 GB	160 GB
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]	20,020 MB	40,020 MB	60,022 MB	80,026 MB	120,034 MB	160,041 MB
Actuator type	Rotary Voice Coil	Rotary Voice Coil	Rotary Voice Coil	Rotary Voice Coil	Rotary Voice Coil	Rotary Voice Coil
Bytes per sector (STD)	512	512	512	512	512	512
User sectors per drive	39,102,33	78,165,360	117,231,408	156,301,488	234,441,648	312,581,808
Model numbers	WD200EB	WD400EB	WD600EB	WD800EB	WD1200AB	WD1600AB
Performance Specifications						
Average latency	5 ms	5 ms	5 ms	5 ms	5 ms	5 ms
Rotational speed	5400 RPM	5400 RPM	5400 RPM	5400 RPM	5400 RPM	5400 RPM
Data transfer rate (Buffer to host)						
- Mode 5 Ultra ATA [2]	100 MB/s	100 MB/s	100 MB/s	100 MB/s	100 MB/s	100 MB/s
- 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]	1-year	1-year	1-year	1-year	1-year	1-year

Average read seek	12.8 ms (average)
Track-to-track seek [4]	2.0 ms (average)
Full stroke read seek [4]	28.5 ms (average)
Read cache	Adaptive
Write cache	Yes
Drive ready time	6.0 sec average
Start/stop cycles	50,000 min
Master/slave support	Yes
IORDY support	Yes
Error rate (Non-recoverable)	<1 in 10^{14} bits read

[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] *One-year standard warranty, unless otherwise required by law.*
[4] *On reads and writes.*

Designed for Microsoft® Windows® XP Windows®2000 Windows® ME

Mac

Certified F.I.T. — WESTERN DIGITAL · FUNCTIONAL INTEGRITY TESTING LAB

S·M·A·R·T SYSTEM COMPLIANT

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