



WD Black 2.5-inch PC Hard Drives are designed for enthusiasts and creative professionals looking for leading-edge performance. These 2.5-inch PC Hard Drives are perfect for high-performance applications like photo and video editing, gaming, and power PCs.

Great Things Come in Small Packages

WD Black 2.5-inch PC Hard Drives are designed to enhance your PC experience, whether at home in your new all-in-one desktop, or on-the-go in your trusty notebook. With up to 1TB of storage running at 7200 RPM, you get an extremely fast high-capacity mobile hard drive, offering the perfect storage solution for a digital artist, video editor, photographer, or gamer. Backed by an industry leading 5-year limited warranty, WD Black 2.5-inch Hard Drives combine performance and capacity with the reliability of a brand you can trust.

For Creative Professionals

Give yourself the room to bring your enormous digital portfolio wherever you're at with WD Black 2.5-inch PC Hard Drives. With up to 1TB of 7200 RPM-Class high-performance storage, WD Black 2.5-inch Hard Drives give you the power to create while on the go, so you can offload, edit, and shoot without fear of running out of space anytime soon.

For Gamers

WD Black 2.5-inch PC Hard Drives offer the perfect storage solution for your gaming rig. WD Black 2.5-inch Hard Drives are purpose-built and tested to ensure they can handle the high-performance tasks you need. With up to 1TB of capacity, you get the space you need for your game's downloadable content, large cache sizes for fast load times, and 7200 RPM-Class drive for desktop-level performance.

Industry Leading Warranty

WD Black™ 2.5-inch PC Hard Drives are tested under more strenuous conditions over a longer period when compared to our standard hard drives. This comprehensive testing ensures an overall quality benchmark for a stable, high performance storage solution backed by an industry leading 5-year limited warranty.

Product Highlights

- Specifically designed for small form factor PC's, laptops, and Mac computers
- Performance 2.5-inch hard drives available up to 1TB capacities
- Designed for creative professionals, gamers, and system builders
- An industry-leading 5-year limited warranty

INTERFACE
SATA 6 Gb/s

MODEL NUMBERS

WD10SPSX
WD5000LPSX
WD5000LPLX
WD3200LPLX
WD2500LPLX

FORM FACTOR
2.5-inch

PERFORMANCE CLASS
7200 RPM-Class

CAPACITIES
250GB to 1TB

THE WESTERN DIGITAL ADVANTAGE

Western Digital puts our products through extensive Functional Integrity Testing (F.I.T.) prior to any product launch. This testing ensures our products consistently meet the quality and reliability standards of the Western Digital brand. WD also has a detailed Knowledge Base with more than 1,000 helpful articles as well as helpful software and utilities. Our toll-free customer support lines are here to help or you can access our WD Support site for additional details.

WD Black™ 2.5-inch PC Hard Drive

PRODUCT BRIEF

2.5-INCH PC HARD DRIVE

	1TB	500GB	500GB	320GB	250GB
Model Number ²	WD10SPSX	WD5000LPLX	WD5000LPSX	WD3200LPLX	WD2500LPLX
Recording Technology ⁹	SMR	CMR	SMR	CMR	CMR
Interface	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s
Formatted capacity ¹	1,000,204MB	500,107MB	500,107MB	320,072MB	250,059MB
User sectors per drive	1,953,525,168	976,773,168	976,773,168	625,142,448	488,397,168
Form factor	2.5-inch	2.5-inch	2.5-inch	2.5-inch	2.5-inch
Advanced Format (AF)	Yes	Yes	Yes	Yes	Yes
RoHS compliant ³	Yes	Yes	Yes	Yes	Yes

Performance

Data transfer rate (max) ² Interface Speed	6 Gb/s	6 Gb/s	6 Gb/s	6 Gb/s	6 Gb/s
Cache (MB) ¹	64	32	64	32	32
Performance Class	7200 RPM	7200 RPM	7200 RPM	7200 RPM	7200 RPM
Average Drive Ready Time (sec)	3.8	3.8	3.8	3.8	3.8

Reliability/Data Integrity

Load/unload cycles	600,000	600,000	600,000	600,000	600,000
Non-recoverable read errors per bits read	<1 in 10 ¹⁴	<1 in 10 ¹⁴	<1 in 10 ¹⁴	<1 in 10 ¹⁴	<1 in 10 ¹⁴
Limited warranty (years)	5	5	5	5	5

Power Management⁶

5VDC ±10% (A, peak)	1.1	1.07	1.07	1.07	1.07
Average power requirements (W)					
Read/Write	2.0	2.0	2.0	2.0	2.0
Idle	0.85	0.85	0.85	0.85	0.85
Standby and Sleep	0.25	0.25	0.25	0.25	0.25

Environmental Specifications

Temperature (°C)					
Operating	0 to 60	0 to 60	0 to 60	0 to 60	0 to 60
Non-operating	-40 to 65	-40 to 65	-40 to 65	-40 to 65	-40 to 65
Acoustics (dBA)					
Idle	24	23	24	23	23
Seek (average)	25	35	25	25	25

Physical Dimensions

Height (in./mm, max)	0.28/7.0	0.28/7.0	0.28/7.0	0.28/7.0	0.28/7.0
Length (in./mm, max)	3.94/100.20	3.94/100.20	3.94/100.20	3.94/100.20	3.94/100.20
Width (in./mm, ± .01 in.)	2.75/69.85	2.75/69.85	2.75/69.85	2.75/69.85	2.75/69.85
Weight (lb/kg, ± 10%)	0.20/0.092	0.20/0.092	0.20/0.092	0.20/0.092	0.20/0.092

Specifications subject to change without notice.

¹ As used for storage capacity, one megabyte (MB) = one million bytes, one gigabyte (GB) = one billion bytes, and one terabyte (TB) = one trillion bytes. Total accessible capacity varies depending on operating environment. As used for buffer or cache, one megabyte (MB) = 1,048,576 bytes. As used for transfer rate or interface, megabyte per second (MB/s) = one million bytes per second, and gigabit per second (Gb/s) = one billion bits per second. Effective maximum SATA 3 Gb/s transfer rate calculated according to the Serial ATA specification published by the SATA-IO organization as of the date of this specification sheet. Visit www.sata-io.org for details.

² Not all products may be available in all regions of the world.

³ WD hard drive products manufactured and sold worldwide after June 8, 2011, meet or exceed Restriction of Hazardous Substances (RoHS) compliance requirements as mandated by the RoHS Directive 2011/65/EU.

⁴ Controlled unload at ambient condition.

⁵ See <http://support.wdc.com/warranty> for regional specific warranty details.

Power measurements at room-ambient temperature.

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

Sound power level.

⁹ Implementation of SMR for these products is device-managed SMR.

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