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#### PRODUCT BRIEF

3.5-INCH PC HARD DRIVES



## **PRODUCT HIGHLIGHTS**

- Desktop performance hard drive
- Performance storage available in up to 10TB capacities
- 2X DRAM cache up to 256 MB for faster read operations
- Designed for creative professionals, gamers and system builders
- WD's StableTrac<sup>™</sup> and Dynamic Cache Technology increase reliability and optimize performance
- Industry-leading 5-year limited warranty

1	DDEL NUMBERS
FORM FACTOR WI	D8001FZBX D6003FZBX
CAPACITIES WI	D4005FZBX D2003FZEX D1003FZEX D5003A7EX

# WD\_BLACK<sup>™</sup> 3.5-inch PERFORMANCE HARD DRIVE WHERE PERFORMANCE MEETS CAPACITY

### INSPIRING PERFORMANCE AND CAPACITY

WD\_BLACK<sup>™</sup> performance storage is designed to enhance your PC experience across heavier computing tasks whether you are a digital artist, video editor, photographer, or gamer. Available with an impressive 256 MB of DRAM cache on higher capacity models, the WD\_BLACK drive is optimized for drive performance so you can spend more time experiencing the things you love most. Enhance your PC's performance even further when you combine a WD\_BLACK drive with an SSD for a dual drive configuration, allowing you to benefit from the additional caching of your operating system onto the SSD for increased performance. All together, the WD\_BLACK drive gives you the hard drive performance, capacity and an industry leading 5-year limited warranty for an inspiring three-in-one storage solution.

## FOR GAMERS

The WD\_BLACK drive is the perfect storage solution for your gaming machine by offering large capacities to store your game's downloadable content (DLC), large cache sizes, and it is the perfect complement for maximum system performance when combined with an SSD.

## FOR CREATIVE PROFESSIONALS

When it comes to storing your creativity and entire digital portfolio, look no further than WD\_ BLACK™ performance storage for your best solution. Use the WD\_BLACK drive for storing your large multimedia files of photos, videos, games or applications and programs because with a WD\_BLACK drive, you get the best combination of speed, capacity and large cache sizes.

#### INCREASED RELIABILITY

The WD\_BLACK™ drive is equipped with StableTrac Technology (2TB and larger models). This secures the motor shaft inside of the hard drive to increase reliability and help reduce impact due to system-induced vibrations from other components such as additional gaming hardware. By stabilizing the platters inside, the WD\_BLACK drive results in more accurate tracking in a particular sector during read and write operations, optimizing performance and reliability.

## AN INDUSTRY LEADING WARRANTY

Compared to standard hard drives such as WD Blue™, our WD\_BLACK™ hard drives pass more strenuous and aggressive internal testing over a longer period of time which is why the WD\_BLACK drive is backed by an industry leading 5-year limited warranty. Our success combined with innovation, refinement, and our passion for storage instills confidence in our consumers.

## WD BLACK<sup>™</sup> 3.5-INCH PC HARD DRIVE

#### PRODUCT BRIEF

#### 3.5-INCH PC HARD DRIVES

#### SPECIFICATIONS

	10TB	8TB	6TB	4TB	2TB	1TB	500GB
MODEL NUMBER <sup>1</sup>	WD101FZBX	WD8001FZBX	WD6003FZBX	WD4005FZBX	WD2003FZEX	WD1003FZEX	WD5003AZE>
Recording Technology	CMR						
Formatted capacity <sup>2</sup>	10TB	8TB	6TB	4TB	2TB	1TB	500GB
Form factor	3.5-inch						
Advanced Format (AF)	Yes						
RoHS compliant <sup>3</sup>	Yes						
PERFORMANCE							
Interface transfer rate (max) <sup>1</sup> Buffer to host Host to/from drive (sustained)	6 Gb/s 263 MB/s	6 Gb/s 263 MB/s	6 Gb/s 227 MB/s	6 Gb/s 256 MB/s	6 Gb/s 164 MB/s	6 Gb/s 150 MB/s	6 Gb/s 150 MB/s
Cache (MB) <sup>1</sup>	256	256	256	256	64	64	64
Performance Class	7200 RPM						
RELIABILITY/DATA INTEGRITY							
Load/unload cycles <sup>4</sup>	300,000	300,000	300,000	300,000	300,000	300,000	300,000
Non-recoverable read errors per bits read	<1 in 1014						
Limited warranty (years)⁵	5	5	5	5	5	5	5
POWER MANAGEMENT <sup>6</sup>							
Average power requirements (W) Read/Write Idle Standby and Sleep	8.4 4.6 0.5	8.2 4.6 0.45	9.1 7.1 1.0	9.1 5.8 1.0	9.5 8.1 1.3	6.8 6.1 0.8	6.8 6.1 0.8
ENVIRONMENTAL SPECIFICATIONS <sup>7</sup>							
Temperature (°C)							
Operating Non-operating	5 to 55 -40 to 70	0 to 60 -40 to 70	0 to 60 -40 to 70				
Shock (Gs) Operating (2 ms, read/write) Operating (2 ms, read) Non-operating (2 ms)	30 70 250	30 70 250	30 70 300	30 70 300	30 70 300	30 70 350	30 70 350
Acoustics (dBA)8 Idle Seek (average)	34 38	29 36	29 36	29 36	29 34	29 30	29 30
PHYSICAL DIMENSIONS							
Height (in./mm, max)	1.028/26.1	1.028/26.1	1.028/26.1	1.028/26.1	1.028/26.1	1.028/26.1	1.028/26.1
Length (in./mm, max)	5.787/147	5.787/147	5.787/147	5.787/147	5.787/147	5.787/147	5.787/147
Width (in./mm, ± .01 in.)	4/101.6	4/101.6	4/101.6	4/101.6	4/101.6	4/101.6	4/101.6
Weight (lb/kg)	1.65/0.75 ± 3%	1.58/0.72 ± 3%	1.58/0.72 ± 3%	1.58/0.72 ± 10%	1.32/0.60	0.99/0.45	0.95/0.43

Specifications subject to change without notice.

<sup>1</sup> Not all products may be available in all regions of the world.

<sup>3</sup> 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. <sup>4</sup> Controlled unload at ambient condition.

<sup>2</sup> As used for storage capacity, one megabyte (MB) = one million bytes, one gigabyte (GB) = one billion bytes, and one transported (TB) = one trillion bytes. Total accessible capacity varies depending on operating environment. As used for buffer <sup>5</sup> See http://support.wd.com/warranty for regional specific warranty details.

<sup>6</sup> Power measurements at room-ambient temperature.

<sup>7</sup> No non-recoverable errors during operating tests or after non-operating tests.

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 (b/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.

#### <sup>8</sup> Sound power level.

## Western Digital.

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