



Western Digital WD Blue™ 3.5-inch PC hard drives deliver solid reliability for office and web applications, and they are perfect for extra storage for desktop PC computing.

Tested For Compatibility

We perform tests on hundreds of systems and a multitude of platforms in our F.I.T. Lab to give our customers confidence that our drives will work in their systems.

Low Power Consumption

State-of-the-art seeking algorithms and advanced power management features help ensure low power consumption.

NoTouch™ Ramp Load Technology

Safely positions the recording head off the disk surface to protect your data.

Upgrading Your Drive is Easy

Seamlessly migrate your current system to your new Western Digital drive using Acronis® True Image™ WD Edition cloning software, available as a free download on the WD Support site. This software enables you to copy all your data to a new drive so you don't have to reinstall your operating system to get all the benefits of a new drive.

Two Year Limited Warranty

As an industry-leading hard drive manufacturer, Western Digital stands behind their PC storage solutions with a 2-year limited warranty included with every WD Blue hard drive.

Highlights

- Reliable everyday computing
- Western Digital quality and reliability
- Free Acronis® True Image™ WD Edition cloning software
- Massive capacity up to 6TB
- Two year limited warranty

| INTERFACE | MODEL NUMBERS |
|-------------------|---------------|
| SATA 6 Gb/s | WD60EZZZ |
| | WD60EZRZ |
| FORM FACTOR | WD40EZRZ |
| 3.5-inch | WD30EZRZ |
| | WD20EZZZ |
| PERFORMANCE CLASS | WD20EZRZ |
| 5400 RPM Class | WD10EZRZ |
| 7200 RPM Class | WD10EZEX |
| | WD5000AZRZ |
| | WD5000AZLX |
| CAPACITIES | |
| 500GB to 6TB | |

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 highest quality and reliability standards of the Western Digital brand.

Western Digital also has a detailed Knowledge Base with more than 1,000 helpful articles as well as helpful software and utilities. Our customer support lines have longer operational hours to ensure you get the help you need when you need it. Our toll-free customer support lines are here to help or you can access our Western Digital Support site for additional details.

Specifications

| | 6TB | 6TB | 4TB | 3TB | 2TB | 2TB | 1TB | 1TB | 500GB | 500GB |
|---|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| Model Number² | WD60EZAZ | WD60EZRZ | WD40EZRZ | WD30EZRZ | WD20EZAZ | WD20EZRZ | WD10EZRZ | WD10EZEX | WD5000AZRZ | WD5000AZLX |
| Formatted capacity ¹ | 6TB | 6TB | 4TB | 3TB | 2TB | 2TB | 1TB | 1TB | 500GB | 500GB |
| Form factor | 3.5-inch | 3.5-inch | 3.5-inch | 3.5-inch | 3.5-inch | 3.5-inch | 3.5-inch | 3.5-inch | 3.5-inch | 3.5-inch |
| Advanced Format (AF) | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| RoHS compliant ³ | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Performance | | | | | | | | | | |
| Interface transfer rate (max) ¹ | | | | | | | | | | |
| Buffer to host | 6 Gb/s | 6 Gb/s | 6 Gb/s | 6 Gb/s | 6 Gb/s | 6 Gb/s | 6 Gb/s | 6 Gb/s | 6 Gb/s | 6 Gb/s |
| Host to/from drive (sustained) | 180 MB/s | 170 MB/s | 175 MB/s | 147 MB/s | 180 MB/s | 147 MB/s | 150 MB/s | 150 MB/s | 150 MB/s | 150 MB/s |
| Cache (MB) ¹ | 256 | 64 | 64 | 64 | 256 | 64 | 64 | 64 | 64 | 64 |
| Performance Class | 5400 RPM | 5400 RPM | 5400 RPM | 5400 RPM | 5400 RPM | 5400 RPM | 5400 RPM | 7200 RPM | 5400 RPM | 7200 RPM |
| Reliability/Data Integrity | | | | | | | | | | |
| Load/unload cycles ⁴ | 300,000 | 300,000 | 300,000 | 300,000 | 300,000 | 300,000 | 300,000 | 300,000 | 300,000 | 300,000 |
| Non-recoverable read errors per bits read | <1 in 10 ¹⁵ | <1 in 10 ¹⁵ | <1 in 10 ¹⁴ | <1 in 10 ¹⁴ | <1 in 10 ¹⁴ | <1 in 10 ¹⁴ | <1 in 10 ¹⁴ | <1 in 10 ¹⁴ | <1 in 10 ¹⁴ | <1 in 10 ¹⁴ |
| Limited warranty (years) ⁵ | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Power Management⁶ | | | | | | | | | | |
| Average power requirements (W) | | | | | | | | | | |
| 12VDC ±10% (A, peak) | 1.75 | 1.75 | 1.75 | 1.73 | 1.31 | 1.73 | 1.2 | 2.5 | 2.0 | 2.0 |
| Read/Write | 4.8 | 5.3 | 4.5 | 4.1 | 4.1 | 4.1 | 3.3 | 6.8 | 3.3 | 3.3 |
| Idle | 3.1 | 3.4 | 2.9 | 3.0 | 2.3 | 3.0 | 2.5 | 6.1 | 2.5 | 2.5 |
| Standby and Sleep | 0.6 | 0.4 | 0.4 | 0.4 | 0.6 | 0.4 | 0.4 | 1.2 | 0.4 | 0.4 |
| Environmental Specifications⁷ | | | | | | | | | | |
| Temperature (°C, on the base casting) | | | | | | | | | | |
| Operating | 0 to 60 | 0 to 60 | 0 to 60 | 0 to 60 | 0 to 60 | 0 to 60 | 0 to 60 | 0 to 60 | 0 to 60 | 0 to 60 |
| Non-operating | -40 to 70 | -40 to 70 | -40 to 70 | -40 to 70 | -40 to 70 | -40 to 70 | -40 to 70 | -40 to 70 | -40 to 70 | -40 to 70 |
| Shock (Gs) | | | | | | | | | | |
| Operating (2 ms, read/write) | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| Operating (2 ms, read) | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 |
| Non-operating (2 ms) | 250 | 250 | 250 | 250 | 350 | 250 | 350 | 350 | 350 | 350 |
| Acoustics (dBA) ⁸ | | | | | | | | | | |
| Idle | 23 | 25 | 23 | 23 | 21 | 23 | 21 | 29 | 29 | 29 |
| Seek (average) | 27 | 28 | 27 | 27 | 26 | 27 | 24 | 30 | 30 | 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 | 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 | 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 | 4/101.6 | 4/101.6 | 4/101.6 |
| Weight (lb/kg, ± 10%) | 1.65/0.75 | 1.65/0.75 | 1.40/0.64 | 1.40/0.715 | 0.99/0.45 | 1.32/0.60 | 0.99/0.45 | 0.99/0.45 | 0.99/0.45 | 0.99/0.45 |

¹ As used for storage capacity, 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 6 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.wd.com/warranty> for regional specific warranty details.
⁶ Power measurements at room-ambient temperature.
⁷ No non-recoverable errors during operating tests or after

non-operating tests.
⁸ Sound power level.

Western Digital.

5601 Great Oaks Parkway
 San Jose, CA 95119, USA
US (Toll-Free): 800.801.4618
International: 408.717.6000

www.westerndigital.com

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