



WD Blue™

PC Hard Drives

High Capacity, Proven Reliability

WD expands their award-winning desktop and mobile storage lineup with WD Blue PC hard drives. Extensively tested and built to WD's high standards, WD Blue offers a wide variety of capacities - ranging from 250 GB to the massive 6 TB – in both desktop and mobile models. Drive WD Blue with confidence – our colors never fade.



| INTERFACE | FORM FACTOR | ROTATIONAL SPEED | CAPACITIES |
|----------------------|-------------|-----------------------------------|----------------|
| SATA 6 Gb/s | 3.5-inch | 7200 RPM Class and 5400 RPM Class | 250 GB to 6 TB |
| MODEL NUMBERS | | | |
| WD60EZRZ | WD20EZRZ | WD5000AZRZ | WD2500AAKX |
| WD50EZRZ | WD10EZRZ | WD5000AZLX | |
| WD40EZRZ | WD10EZEX | WD5000AAKX | |
| WD30EZRZ | WD7500AZEX | WD3200AAKX | |

Product Features

Storage Capacity Up to 6 TB

Boost your PC storage with WD Blue drives, the brand designed specifically for desktop and all-in-one PCs. The WD Blue family now delivers data storage capacities up to 6 TB.

Improve PC Performance

Pair a larger capacity drive with an SSD to give your desktop a performance and storage boost. The SSD maximizes speed of data access, while the WD Blue drive stores up to 6 TB of movies, games, files, applications and more.

Upgrade and Backup with Ease

WD hard drives come with free access to WD Acronis True Image. Backup and restore functions make it easy to save and retrieve your personal data without the need to reinstall the OS.

Trust in WD

Customers around the world know that WD's reliability is legendary. Every WD Blue drive is designed, tested and built to last, and each ships with a 2-year limited warranty.

Future-Proof Your Storage

With better technology comes bigger storage needs. Cameras that record ultra-high definition video at 4K resolution at 30 frames per second require a ton of storage. Handling all that media is a snap with our 6 TB drive.

NoTouch Ramp Load Technology

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

IntelliSeek

Calculates optimum seek speeds to lower power consumption, noise and vibration.

Applications

- WD Blue storage is tested and recommended for use in desktop and All-in-One PCs, notebooks, and external enclosures.
- Desktop / Consumer RAID Environments - WD Blue PC Hard Drives are tested and recommended for use in consumer-type RAID applications (RAID 0 and RAID 1).*

* Business Critical RAID Environments – WD Blue PC Hard Drives are not recommended for and are not warranted for use in RAID environments utilizing Enterprise HBAs and/or expanders and in multi-bay chassis, as they are not designed for, nor tested in, these specific types of RAID applications. For all Business Critical RAID applications, please consider WD's Enterprise Hard Drives that are specifically designed with RAID-specific, time-limited error recovery (TLER), are tested extensively in 24x7 RAID applications, and include features like enhanced RAFF technology and thermal extended burn-in testing.

The WD Advantage

WD 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 WD brand. WD 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 WD Support site for additional details.



| Specifications | 6 TB | 5 TB | 4 TB | 3 TB | 2 TB |
|---|------------------------|------------------------|------------------------|------------------------|------------------------|
| Model number ¹ | WD60EZRZ | WD50EZRZ | WD40EZRZ | WD30EZRZ | WD20EZRZ |
| Interface | SATA 6 Gb/s | SATA 6 Gb/s | SATA 6 Gb/s | SATA 6 Gb/s | SATA 6 Gb/s |
| Formatted capacity ² | 6 TB | 5 TB | 4 TB | 3 TB | 2 TB |
| Advanced Format (AF) | Yes | Yes | Yes | Yes | Yes |
| Form factor | 3.5-inch | 3.5-inch | 3.5-inch | 3.5-inch | 3.5-inch |
| RoHS compliant ³ | Yes | Yes | Yes | Yes | Yes |
| Performance | | | | | |
| Data transfer rate (max) | | | | | |
| Buffer to host | 6 Gb/s | 6 Gb/s | 6 Gb/s | 6 Gb/s | 6 Gb/s |
| Host to/from drive (sustained) | 175 MB/s | 170 MB/s | 150 MB/s | 147 MB/s | 147 MB/s |
| Cache (MB) | 64 | 64 | 64 | 64 | 64 |
| Rotational speed (RPM) | 5400 RPM Class | 5400 RPM Class | 5400 RPM Class | 5400 RPM Class | 5400 RPM Class |
| Reliability/Data Integrity | | | | | |
| Load/unload cycles ⁴ | 300,000 | 300,000 | 300,000 | 300,000 | 300,000 |
| 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 | 2 | 2 | 2 | 2 | 2 |
| Power Management | | | | | |
| 12VDC ±10% (A, peak) | 1.75 | 1.75 | 1.75 | 1.73 | 1.73 |
| Average power requirements (W) | | | | | |
| Read/Write | 5.3 | 5.3 | 5.3 | 4.1 | 4.1 |
| Idle | 3.4 | 3.4 | 3.4 | 3.0 | 3.0 |
| Standby/Sleep | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| Environmental Specifications⁶ | | | | | |
| Temperature (°C) | | | | | |
| Operating | 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 |
| Shock (Gs) | | | | | |
| Operating (2 ms, write) | 30 | 30 | 30 | 30 | 30 |
| Operating (2 ms, read) | 65 | 65 | 65 | 65 | 65 |
| Non-operating (2 ms) | 250 | 250 | 250 | 250 | 250 |
| Acoustics (dBA) ⁷ | | | | | |
| Idle | 25 | 25 | 25 | 23 | 23 |
| Seek (average) | 28 | 28 | 28 | 27 | 27 |
| 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 |
| Length (in./mm, max) | 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 |
| Weight (lb./kg, ± 10%) | 1.65/0.75 | 1.65/0.75 | 1.50/0.68 | 1.40/0.64 | 1.32/0.60 |

¹ Not all products may be available in all regions of the world.

² 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.

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 The term of the limited warranty may vary by region. Visit support.wd.com/warranty for details.

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

⁷ Sound power level.



| Specifications | 1 TB | 1 TB | 750 GB | 500 GB | 500 GB |
|---|------------------------|------------------------|------------------------|------------------------|------------------------|
| Model number ¹ | WD10EZRX | WD10EZEX | WD7500AZEX | WD5000AZRX | WD5000AAKX |
| Interface | SATA 6 Gb/s | SATA 6 Gb/s | SATA 6 Gb/s | SATA 6 Gb/s | SATA 6 Gb/s |
| Formatted capacity ² | 1 TB | 1,000,204 MB | 750,156 MB | 500 GB | 500,107 MB |
| Advanced Format (AF) | Yes | Yes | Yes | Yes | No |
| Form factor | 3.5-inch | 3.5-inch | 3.5-inch | 3.5-inch | 3.5-inch |
| RoHS compliant ³ | Yes | Yes | Yes | Yes | Yes |
| Performance | | | | | |
| Data transfer rate (max) | | | | | |
| Buffer to host | 6 Gb/s | 6 Gb/s | 6 Gb/s | 6 Gb/s | 6 Gb/s |
| Host to/from drive (sustained) | 150 MB/s | 150 MB/s | 150 MB/s | 150 MB/s | 126 MB/s |
| Cache (MB) | 64 | 64 | 64 | 64 | 16 |
| Rotational speed (RPM) | 5400 RPM Class | 7200 RPM Class | 7200 RPM Class | 5400 RPM Class | 7200 RPM Class |
| Reliability/Data Integrity | | | | | |
| Load/unload cycles ⁴ | 300,000 | 300,000 | 300,000 | 300,000 | 300,000 |
| 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 | 2 | 2 | 2 | 2 | 2 |
| Power Management | | | | | |
| 12VDC ±10% (A, peak) | 1.2 | 2.5 | 2.5 | 1.2 | 1.77 |
| Average power requirements (W) | | | | | |
| Read/Write | 3.3 | 6.8 | 6.8 | 3.3 | 6.0 |
| Idle | 2.5 | 6.1 | 6.1 | 2.5 | 5.6 |
| Standby/Sleep | 0.4 | 1.2 | 1.2 | 0.4 | 0.9 |
| Environmental Specifications | | | | | |
| Temperature (°C) | | | | | |
| Operating | 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 |
| Shock (Gs) | | | | | |
| Operating (2 ms, write) | 30 | 30 | 30 | 30 | 30 |
| Operating (2 ms, read) | 65 | 65 | 65 | 65 | 65 |
| Non-operating (2 ms) | 350 | 350 | 350 | 350 | 350 |
| Acoustics (dBA) ⁷ | | | | | |
| Idle | 21 | 29 | 29 | 21 | 29 |
| Seek (average) | 24 | 30 | 30 | 22 | 30 |
| Physical Dimensions | | | | | |
| Height (in./mm, max) | 1.028/26.1 | 1.028/25.4 | 1.028/25.4 | 1.028/26.1 | 1.028/25.4 |
| Length (in./mm, max) | 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 |
| Weight (lb./kg, ± 10%) | 0.99/0.45 | 0.99/0.45 | 0.99/0.45 | 0.99/0.45 | 0.95/0.43 |

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² 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.

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⁴ Controlled unload at ambient condition.

⁵ The term of the limited warranty may vary by region. Visit support.wd.com/warranty for details.

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

⁷ Sound power level.



| Specifications | 500 GB | 320 GB | 250 GB |
|---|------------------------|------------------------|------------------------|
| Model number ¹ | WD5000AZLX | WD3200AAKX | WD2500AAKX |
| Interface | SATA 6 Gb/s | SATA 6 Gb/s | SATA 6 Gb/s |
| Formatted capacity ² | 500,107 MB | 320,072 MB | 250,059 MB |
| Advanced Format (AF) | Yes | No | No |
| Form factor | 3.5-inch | 3.5-inch | 3.5-inch |
| RoHS compliant ³ | Yes | Yes | Yes |
| Performance | | | |
| Data transfer rate (max) | | | |
| Buffer to host | 6 Gb/s | 3 Gb/s | 6 Gb/s |
| Host to/from drive (sustained) | 150 MB/s | 126 MB/s | 126 MB/s |
| Cache (MB) | 32 | 16 | 16 |
| Rotational speed (RPM) | 7200 RPM Class | 7200 RPM Class | 7200 RPM Class |
| Reliability/Data Integrity | | | |
| Load/unload cycles ⁴ | 300,000 | 300,000 | 300,000 |
| Non-recoverable read errors per bits read | <1 in 10 ¹⁴ | <1 in 10 ¹⁴ | <1 in 10 ¹⁴ |
| Limited warranty (years) ⁵ | 2 | 2 | 2 |
| Power Management | | | |
| 12VDC ±10% (A, peak) | 2 | 1.77 | 1.77 |
| Average power requirements (W) | | | |
| Read/Write | 6.8 | 6.0 | 5.3 |
| Idle | 6.1 | 5.6 | 4.9 |
| Standby/Sleep | 1.2 | 0.9 | 0.7 |
| Environmental Specifications | | | |
| Temperature (°C) | | | |
| Operating | 0 to 60 | 0 to 60 | 0 to 60 |
| Non-operating | -40 to 70 | -40 to 70 | -40 to 70 |
| Shock (Gs) | | | |
| Operating (2 ms, write) | 30 | 30 | 30 |
| Operating (2 ms, read) | 65 | 65 | 65 |
| Non-operating (2 ms) | 350 | 350 | 350 |
| Acoustics (dBA) ⁷ | | | |
| Idle | 29 | 29 | 29 |
| Seek (average) | 30 | 30 | 30 |
| Physical Dimensions | | | |
| Height (in./mm, max) | 1.028/25.4 | 1.028/25.4 | 1.028/25.4 |
| Length (in./mm, max) | 5.787/147 | 5.787/147 | 5.787/147 |
| Width (in./mm, ± .01 in.) | 4/101.6 | 4/101.6 | 4/101.6 |
| Weight (lb./kg, ± 10%) | 0.99/0.45 | 0.95/0.43 | 0.99/0.45 |

¹ Not all products may be available in all regions of the world.

² 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.

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⁴ Controlled unload at ambient condition.

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⁷ Sound power level.

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Learn more about WD Blue Desktop
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