Western Digital WD Blue
2.5-inch HDD

WD Quality
Built to the high standards of quality and reliability of the WD brand, these drives offer the features and capacity ideal for everyday computing needs.

The Original
WD Blue 2.5-inch PC Hard Drives are designed and manufactured with the proven technology found in WD’s original award-winning hard drives.

Compatible
The latest generation of 7 mm 2.5-inch mobile drives is designed for thin and light mobile applications, and is also compatible with most standard 9.5 mm bays.

SATA 6 Gb/s interface
The SATA 6 Gb/s interface provides greater flexibility for use with the latest chipsets as well as backwards compatibility to legacy systems with SATA 3 Gb/s requirements.

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

Quiet
In a notebook, silence is golden. WD’s exclusive noise reducing technologies yield some of the quietest 2.5-inch hard drives on the market.

Upgrading Your Drive is Easy
Acronis™ True Image™ WD Edition cloning software is available as a free download on the WD Support site enabling you to copy all your data to a new drive. You don’t have to reinstall your operating system to get all the benefits of a new drive.

Enhanced Availability (EA)—for 24×7 Access to Data
Western Digital provides enhanced availability models of WD Blue 2.5-inch PC Hard Drives (WD50LQVX) that deliver 24×7 access to information for data-intensive applications requiring round-the-clock operation. WD Blue EA models support the stringent demands of “always-on” applications in lower-transaction environments and come with a 3-year standard warranty.
### Specifications

<table>
<thead>
<tr>
<th>Model Number²</th>
<th>WD20SPZX</th>
<th>WD10SPZX</th>
<th>WD5000LPX</th>
<th>WD5000LPVX²⁹</th>
<th>WD3200LPX</th>
<th>WD3200LPVX</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recording Technology²⁰</td>
<td>SMR</td>
<td>SMR</td>
<td>CMR</td>
<td>CMR</td>
<td>CMR</td>
<td>CMR</td>
</tr>
<tr>
<td>Formatted capacity¹</td>
<td>2TB</td>
<td>1TB</td>
<td>500 GB</td>
<td>500 GB</td>
<td>320 GB</td>
<td>320 GB</td>
</tr>
<tr>
<td>Form factor</td>
<td>2.5-inch</td>
<td>2.5-inch</td>
<td>2.5-inch</td>
<td>2.5-inch</td>
<td>2.5-inch</td>
<td>2.5-inch</td>
</tr>
<tr>
<td>Advanced Format (AF)</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>RoHS compliant³</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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</table>

#### Data transfer rate (max)²

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Cache (MB)²¹</td>
<td>128</td>
<td>128</td>
<td>16</td>
<td>16</td>
<td>16</td>
<td>8</td>
</tr>
</tbody>
</table>

#### Performance Class

- 5400 RPM

#### Performance Class

- Average drive ready time (sec) | 3.5 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |

#### Reliability/Data Integrity

- Load/unload cycles⁴ | 600,000 | 600,000 | 600,000 | 600,000 | 600,000 | 600,000 |
- Non-recoverable read errors per bits read | <1 in 10¹⁴ | <1 in 10¹⁴ | <1 in 10¹⁴ | <1 in 10¹⁴ | <1 in 10¹⁴ | <1 in 10¹⁴ |
- Limited warranty (years⁵) | 2 | 2 | 2 | 2 | 2 | 2 |

#### Power Management⁶

- Average power requirements (W)
  - Read/Write | 1.7 | 1.5 | 1.4 | 1.4 | 1.4 | 1.4 |
  - Idle | 0.5 | 0.5 | 0.55 | 0.5 | 0.55 | 0.55 |
  - Standby and Sleep | 0.1 | 0.1 | 0.16 | 0.20 | 0.16 | 0.13 |

#### Environmental Specifications⁷

<table>
<thead>
<tr>
<th>Temperature (°C, on the base casting)</th>
<th>Operating</th>
<th>Non-operating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating</td>
<td>0 to 60</td>
<td>0 to 60</td>
</tr>
<tr>
<td>Non-operating</td>
<td>-60 to 65</td>
<td>-60 to 65</td>
</tr>
<tr>
<td>Acoustics (dBA)⁸</td>
<td>Idle</td>
<td>23</td>
</tr>
<tr>
<td></td>
<td>Seek (average)</td>
<td>24</td>
</tr>
</tbody>
</table>

#### Physical Dimensions

| Height (in./mm, max) | 0.28/7.0 | 0.28/7.0 | 0.27/6.8 | 0.27/6.8 | 0.27/6.8 | 0.27/6.8 |
| Length (in./mm, max) | 3.94/100.20 | 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 | 2.75/69.85 |
| Weight (lb/kg, ± 10%) | 0.20/0.09 | 0.20/0.09 | 0.20/0.09 | 0.20/0.09 | 0.20/0.09 | 0.20/0.09 |

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² 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.

²⁰ SMR: Shallow Magnetic Recording

²¹ CMR: Conventional Magnetic Recording

²² WD20SPZX/WD10SPZX: Designed for low duty cycle, non-mission critical applications in PC, nearline and consumer electronics environments, which vary application to application.

²³ Implementation of SMR for these products is device-managed SMR.

²⁴ Controlled unload at ambient condition.

²⁵ See http://support.wdc.com/warranty for regional specific warranty details.

³² Power measurements at room ambient temperature.

²⁶ Power measurements at room ambient temperature.

²⁷ Not all products may be available in all regions of the world.

²⁸ 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.

²⁹ Not all products may be available in all regions of the world.

³⁰ Designed for low duty cycle, non mission-critical applications in PC, nearline and consumer electronics environments, which vary application to application.

³¹ Controlled unload at ambient condition.

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