WD Scorpio™
Mobile Hard Drives

High Performance
Low Power
Whisper Quiet
Rugged Design

WD Scorpio 2.5-inch drives offer fast performance and low power consumption, making them ideal for notebooks and other portable devices. Now offered in capacities up to 160 GB in SATA or EIDE interface, WD Scorpio can help meet your portable storage needs with increased capacity.

**Product Benefits**

- **Fast** — spins at 5400 RPM and delivers seek times of 12 ms. It has a standard 2 MB cache with an 8 MB option.
- **Efficient** — spins at 5400 RPM for fast performance but has power consumption specifications similar to slower 4200 RPM drives. Low power consumption yields increased overall reliability.
- **Quiet** — features WD’s exclusive WhisperDrive™ technology with SoftSeek™ algorithms to deliver nearly inaudible operation.
- **Reliable** — provides ShockGuard™ to protect the drive mechanics and delicate platter surface from shocks, both when it’s in use and when it’s not.

WD Scorpio’s DuraStep Ramp™ locks the heads off the data disk to provide additional shock protection. Using the most technologically advanced material available on the market, the drive is able to execute a minimum of 600,000 load/unload cycles — up to twice the performance of its competitors.

**The WD Promise**

WD understands the importance of the information you save to your hard drive and we are committed to protecting that data with exceptionally reliable products, advanced data protection technology, and superior customer support. No one does more to safeguard your data than WD.

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**INTERFACE**
- SATA or EIDE

**WIDTH/HEIGHT**
- 69.85 mm/9.5 mm

**ROTATIONAL SPEED**
- 5400 RPM

**CAPACITIES**
- 40 to 160 GB

**MODEL NUMBERS**

<table>
<thead>
<tr>
<th>SATA Drives</th>
<th>EIDE Drives</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>2 MB Buffer</strong></td>
<td><strong>2 MB Buffer</strong></td>
</tr>
<tr>
<td>WD400BEAS</td>
<td>WD400UE</td>
</tr>
<tr>
<td>WD600BEAS</td>
<td>WD600UE</td>
</tr>
<tr>
<td>WD800BEAS</td>
<td>WD800UE</td>
</tr>
<tr>
<td>WD1000BEAS</td>
<td>WD1000UE</td>
</tr>
<tr>
<td>WD1200BEAS</td>
<td>WD1200UE</td>
</tr>
<tr>
<td>WD1600BEAS</td>
<td></td>
</tr>
<tr>
<td><strong>8 MB Buffer</strong></td>
<td><strong>8 MB Buffer</strong></td>
</tr>
<tr>
<td>WD400BEVS</td>
<td>WD400VE</td>
</tr>
<tr>
<td>WD600BEVS</td>
<td>WD600VE</td>
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<tr>
<td>WD800BEVS</td>
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<tr>
<td>WD1000BEVS</td>
<td>WD1000VE</td>
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<tr>
<td>WD1200BEVS</td>
<td>WD1200VE</td>
</tr>
<tr>
<td>WD1600BEVS</td>
<td></td>
</tr>
</tbody>
</table>

**Note:** Not all products may be available in all regions of the world.
Drive Specifications

<table>
<thead>
<tr>
<th>Capacity (GB)</th>
<th>Formatted Capacity</th>
<th>User Sectors per Drive</th>
</tr>
</thead>
<tbody>
<tr>
<td>40 GB</td>
<td>40,020 MB</td>
<td>78,140,160</td>
</tr>
<tr>
<td>60 GB</td>
<td>60,022 MB</td>
<td>117,210,240</td>
</tr>
<tr>
<td>80 GB</td>
<td>80,029 MB</td>
<td>156,301,488</td>
</tr>
<tr>
<td>100 GB</td>
<td>100,032 MB</td>
<td>195,371,568</td>
</tr>
<tr>
<td>120 GB</td>
<td>120,034 MB</td>
<td>234,441,648</td>
</tr>
<tr>
<td>160 GB</td>
<td>160,041 MB</td>
<td>312,581,808</td>
</tr>
</tbody>
</table>

WD model number

- SATA: WD400BEAS, WD600BEAS, WD800BEAS, WD1000BEAS, WD1200BEAS, WD1600BEAS
- EIDE: WD400UE, WD600UE, WD800UE, WD1000UE, WD1200UE

Cache

- 2 MB cache buffer: WD400BEAS, WD600BEAS, WD800BEAS, WD1000BEAS, WD1200BEAS, WD1600BEAS
- 8 MB cache buffer: WD400BEVS, WD600BEVS, WD800BEVS, WD1000BEVS, WD1200BEVS, WD1600BEVS

SATA Hard Drives

- Bytes per sector (STD): 512
- Form factor: 2.5-inch
- Interface: SATA 150 MB/s
- RoHS compliant: Yes

EIDE Hard Drives

- Bytes per sector (STD): 512
- Form factor: 2.5-inch
- Interface: 44-pin EIDE
- RoHS compliant: Yes

Performance Specifications

**SATA Hard Drives**

- **Average latency**: 4.2 ms
- **Cache**
  - Read: Adaptive
  - Write: Yes
- **Data transfer rate**
  - Buffer to disk: 600 Mbits/s (maximum)
  - Buffer to host: 150 MB/s (maximum)
- **Drive ready time**: 4.0 sec (average)
- **Error rate (non-recoverable)**: <1 in 10¹⁴ bits read
- **Rotational speed**: 5400 RPM
- **Seek time**
  - Full stroke read: 21 ms (average)
  - Read: 12.0 ms (average)
  - Track-to-track: 2.0 ms (average)
- **Load/unload cycles**: 600,000

**EIDE Hard Drives**

- **Average latency**: 5.5 ms
- **Cache**
  - Read: Adaptive
  - Write: Yes
- **Data transfer rate (buffer to host)**
  - Mode 5 Ultra ATA⁴: 100 MB/s
  - Mode 4 Ultra ATA⁴: 66.6 MB/s
  - Mode 2 Ultra ATA⁴: 33.3 MB/s
  - Mode 2 Ultra DMA⁴: 16.6 MB/s
  - Mode 4 Ultra PIO⁴: 16.6 MB/s
  - Buffer to disk: 500 Mbits/s (maximum)
- **Drive ready time**: 4.0 sec (average)
- **Error rate (non-recoverable)**: <1 in 10¹⁴ bits read
- **Rotational speed**: 5400 RPM
- **Seek time**
  - Full stroke read: 21 ms (average)
  - Read: 12.0 ms (average)
  - Track-to-track: 2.0 ms (average)
- **Load/unload cycles**: 600,000

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⁴Maximum burst rate running the specified PIO, DMA, or Ultra ATA transfer mode.
⁵Controlled unload at ambient condition.