The Power of One

- Seagate brings over 30 years of trusted performance and reliability to the Seagate® Desktop HDDs—now available in capacities up to 8 TB
- Increase your capacity and drive down costs with up to 1.33TB-per-disk hard drive technology
- Seagate AcuTrac™ servo technology delivers dependable performance
- Free DiscWizard™ software enables high capacities on legacy PC BIOS systems
- Seagate Secure™ models provide hardware-based data security and deliver an Instant Secure Erase feature for safe, fast and easy drive retirement
- Seagate Secure models meet the NIST 800-88 media sanitization specification and also support the Trusted Computer Group (TCG) Opal standard

Best-Fit Applications

- Desktop or all-in-one PCs
- Home servers
- Entry-level direct-attached storage devices (DAS)

1 Seagate Secure models are not available in all countries. May require TCG-compliant host or controller support.
<table>
<thead>
<tr>
<th>Specifications</th>
<th>8TB</th>
<th>6TB</th>
<th>5TB</th>
<th>4TB</th>
<th>3TB</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Standard Model Numbers</strong></td>
<td>ST8000DM002</td>
<td>ST6000DM001</td>
<td>ST5000DM002</td>
<td>ST4000DM000</td>
<td>ST3000DM001</td>
</tr>
<tr>
<td><strong>Seagate Secure™ Model Numbers</strong></td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td><strong>Cache</strong></td>
<td>256 MB</td>
<td>128 MB</td>
<td>128 MB</td>
<td>64 MB</td>
<td>64 MB</td>
</tr>
<tr>
<td><strong>Model Name</strong></td>
<td>Desktop HDD</td>
<td>Desktop HDD</td>
<td>Desktop HDD</td>
<td>Desktop HDD</td>
<td>formerly Barracuda</td>
</tr>
<tr>
<td><strong>Performance</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>SATA Transfer Rates Supported (Gb/s)</strong></td>
<td>6.0/3.0/1.5</td>
<td>6.0/3.0/1.5</td>
<td>6.0/3.0/1.5</td>
<td>6.0/3.0/1.5</td>
<td>6.0/3.0/1.5</td>
</tr>
<tr>
<td><strong>Max Sustainable Transfer Rate</strong></td>
<td>220MB/s</td>
<td>220MB/s</td>
<td>220MB/s</td>
<td>220MB/s</td>
<td>220MB/s</td>
</tr>
<tr>
<td><strong>Sphericity (mm/revolution)</strong></td>
<td>6/12</td>
<td>6/12</td>
<td>6/12</td>
<td>8/4</td>
<td>6/3</td>
</tr>
<tr>
<td><strong>Bytes per Sector</strong></td>
<td>512E</td>
<td>512E</td>
<td>512E</td>
<td>512E</td>
<td>512E</td>
</tr>
<tr>
<td><strong>Voltage Tolerance, Inc. Noise (5V)</strong></td>
<td>±5%</td>
<td>±5%</td>
<td>±5%</td>
<td>±5%</td>
<td>±5%</td>
</tr>
<tr>
<td><strong>Voltage Tolerance, Inc. Noise (12V)</strong></td>
<td>±10%</td>
<td>±10%</td>
<td>±10%</td>
<td>±10%</td>
<td>±10%</td>
</tr>
<tr>
<td><strong>Load/Unload Cycles</strong></td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td><strong>Non-recoverable Read Errors per Bits</strong></td>
<td>1 per 10E14</td>
<td>1 per 10E14</td>
<td>1 per 10E14</td>
<td>1 per 10E14</td>
<td>1 per 10E14</td>
</tr>
<tr>
<td><strong>Workload Rate Limit (TB/year)</strong></td>
<td>55</td>
<td>55</td>
<td>55</td>
<td>55</td>
<td>55</td>
</tr>
<tr>
<td><strong>Power-on Hours</strong></td>
<td>2,400</td>
<td>2,400</td>
<td>2,400</td>
<td>2,400</td>
<td>2,400</td>
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<tr>
<td><strong>Warranty, Limited (years)</strong></td>
<td>4</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td><strong>Power Management</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Startup Power (12V, A)</strong></td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2.5</td>
</tr>
<tr>
<td><strong>Average Operating Power</strong></td>
<td>9 W</td>
<td>9 W</td>
<td>9 W</td>
<td>5.6 W</td>
<td>8 W</td>
</tr>
<tr>
<td><strong>Idle Average (W)</strong></td>
<td>7.2 W</td>
<td>7.2 W</td>
<td>7.2 W</td>
<td>4 W</td>
<td>5.4 W</td>
</tr>
<tr>
<td><strong>Standby/Idle Mode /, W</strong></td>
<td>0.6 W/0.6 W</td>
<td>0.6 W/0.6 W</td>
<td>0.6 W/0.6 W</td>
<td>0.5 W/0.5 W</td>
<td>0.75 W/0.75 W</td>
</tr>
<tr>
<td><strong>Environmental/Temperature</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Operating (drive case, max)</strong></td>
<td>60°C</td>
<td>60°C</td>
<td>60°C</td>
<td>60°C</td>
<td>60°C</td>
</tr>
<tr>
<td><strong>Non-operating (ambient, min)</strong></td>
<td>40°C</td>
<td>40°C</td>
<td>40°C</td>
<td>40°C</td>
<td>40°C</td>
</tr>
<tr>
<td><strong>Non-operating (ambient, max)</strong></td>
<td>70°C</td>
<td>70°C</td>
<td>70°C</td>
<td>70°C</td>
<td>70°C</td>
</tr>
<tr>
<td><strong>Halogen-free</strong></td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>RoHS compliance</strong></td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Physical</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Height (mm/in)</strong></td>
<td>26.11 mm/1.028 in</td>
<td>26.11 mm/1.028 in</td>
<td>26.11 mm/1.028 in</td>
<td>26.11 mm/1.028 in</td>
<td>26.11 mm/1.028 in</td>
</tr>
<tr>
<td><strong>Width (mm/in, max)</strong></td>
<td>101.6 mm/4 in</td>
<td>101.6 mm/4 in</td>
<td>101.6 mm/4 in</td>
<td>101.6 mm/4 in</td>
<td>101.6 mm/4 in</td>
</tr>
<tr>
<td><strong>Depth (mm/in, max)</strong></td>
<td>146.99 mm/5.787 in</td>
<td>146.99 mm/5.787 in</td>
<td>146.99 mm/5.787 in</td>
<td>146.99 mm/5.787 in</td>
<td>146.99 mm/5.787 in</td>
</tr>
<tr>
<td><strong>Weight (lb/g)</strong></td>
<td>7.8 g/1.72 lb</td>
<td>7.8 g/1.72 lb</td>
<td>7.8 g/1.72 lb</td>
<td>610 g/1.35 lb</td>
<td>628 g/1.38 lb</td>
</tr>
<tr>
<td><strong>Carton Unit Quantity</strong></td>
<td>20</td>
<td>20</td>
<td>20</td>
<td>20</td>
<td>20</td>
</tr>
<tr>
<td><strong>Cartons per Layer</strong></td>
<td>40 / 8</td>
<td>40 / 8</td>
<td>40 / 8</td>
<td>40 / 8</td>
<td>40 / 8</td>
</tr>
</tbody>
</table>

1 Seagate ships the 500GB, 320GB and 250GB models in both 4K- and 512-byte sectors. SmartAlign technology is included on 4K sector drives. Both drives are functionally and physically equivalent.
2 At 23°C and 50% relative humidity.
3 Load/Unload tested to 600,000 cycles.
4 Extended warranty products available. Consult your distributor for details.
### Desktop HDD

<table>
<thead>
<tr>
<th>Specifications</th>
<th>2TB</th>
<th>1TB</th>
<th>500GB</th>
<th>300GB</th>
<th>250GB</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Standard Model Numbers</strong></td>
<td>ST2000DM001</td>
<td>ST1000DM001</td>
<td>ST500DM002</td>
<td>ST320DM000</td>
<td>ST250DM000</td>
</tr>
<tr>
<td><strong>Seagate Secure™ Model Numbers</strong></td>
<td>ST2000DM002</td>
<td>ST1000DM002</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td><strong>Cache</strong></td>
<td>64 MB</td>
<td>64/32 MB</td>
<td>16 MB</td>
<td>16 MB</td>
<td>16 MB</td>
</tr>
<tr>
<td><strong>Model Name</strong></td>
<td>formerly BarraCuda</td>
<td>formerly BarraCuda</td>
<td>formerly BarraCuda</td>
<td>formerly BarraCuda</td>
<td>formerly BarraCuda</td>
</tr>
</tbody>
</table>

### Performance

<table>
<thead>
<tr>
<th>SATA Transfer Rates Supported (Gb/s)</th>
<th>6.0/3.1/5</th>
<th>6.0/3.1/5</th>
<th>6.0/3.1/5</th>
<th>6.0/3.1/5</th>
<th>6.0/3.1/5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max Sustainable Transfer Rate</td>
<td>210MB/s</td>
<td>210MB/s</td>
<td>144MB/s</td>
<td>144MB/s</td>
<td>144MB/s</td>
</tr>
<tr>
<td><strong>Write</strong></td>
<td>Heads/Tracks</td>
<td>6/3 or 4/2</td>
<td>2/1</td>
<td>2/1</td>
<td>1/1</td>
</tr>
<tr>
<td><strong>Bytes per Sector</strong></td>
<td>512E</td>
<td>512E</td>
<td>512E or 512</td>
<td>512E or 512</td>
<td>512E or 512</td>
</tr>
</tbody>
</table>

### Limited Use

1. Seagate ships the 500GB, 320GB and 250GB models in both 4K- and 512-byte sectors. SmartAlign technology is included on 4K sector drives. Both drives are functionally and physically equivalent.

2. At 25°C and 50% relative humidity.

3. Load/Unload tested to 600,000 cycles.

4. Extended warranty products available. Consult your distributor for details.

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