
- Equipped with both 32GB and 8GB NAND Flash for enhanced performance
- Boots up and performs like an SSD
- Capacities of up to 1TB
- All-in-one design for simplicity and ease of installation
- Installs and works just like a traditional hard drive in any laptop, PC, Mac or game console, and with any OS and application
- SATA 6Gb/s with NCQ for interface speed
- Self-Encrypting Drive (SED) versions available to maximise data protection and minimise the risk of confidential information breaches
- Backed by a 5-year limited warranty

Best-Fit Applications

- Thin, thinner and thinnest z-heights
- Perfect for gaming, creative professional, and high performance settings
- 9.5mm for all-in-one PCs and larger laptops
- 7mm for thin and light laptops and high-performance gaming systems

1 Performance may vary depending on user’s hardware configuration and operating system. Testing performed on a Seagate® Laptop SSHD 1TB and Seagate Laptop Thin SSHD 500GB.
Laptop SSHD

Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>9.5mm</th>
<th>9.5mm</th>
<th>7mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>1TB</td>
<td>1TB</td>
<td>500GB</td>
</tr>
<tr>
<td>Standard Model with 8GB NAND Flash</td>
<td>---</td>
<td>ST1000LM014</td>
<td>ST500LM000</td>
</tr>
<tr>
<td>Standard Model with 32GB NAND Flash</td>
<td>ST1000LMX01</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>Standard Zero Gravity Sensor (ZG) Model</td>
<td>---</td>
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<tr>
<td>Self-Encrypting Drive (SED) Model</td>
<td>---</td>
<td>ST1000LM028</td>
<td>ST500LM001</td>
</tr>
<tr>
<td>SED/FIPS 140-2 Model</td>
<td>---</td>
<td>ST1000LM015</td>
<td>ST500LM020</td>
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<tr>
<td>Model Name</td>
<td>Laptop SSHD</td>
<td>Laptop SSHD</td>
<td>Laptop Thin SSHD</td>
</tr>
<tr>
<td>Interface</td>
<td>SATA 6.0/3.0/1.5Gb/s NCQ</td>
<td>SATA 6.0/3.0/1.5Gb/s NCQ</td>
<td>SATA 6.0/3.0/1.5Gb/s NCQ</td>
</tr>
</tbody>
</table>

Features

- Flash Memory Type: 32GB NAND Flash, 8GB NAND Flash
- Game Load Test: 200% Faster/95% Faster, 140% Faster/50% Faster, 140% Faster/50% Faster
- Application Load Test: 600% Faster/400% Faster, 450% Faster/300% Faster, 450% Faster/300% Faster
- Windows 7 Boot Time: 35% Faster/25% Faster, 35% Faster/25% Faster, 35% Faster/25% Faster

Configuration/Organisation

- Heads/Cache: 4/2
-Bytes per Sector: 4096
- Power Supply Requirements: +5 V
- Physical
  - Acoustic, Seek/Idle, Typical (bels): 2.4bels/2.2bels
  - Shock, Non-operating: 1000Gs
- Environmental
  - Temperature, Operating/Non-Operating (ambient, max °C): 0°C/40°C
  - Shock, Operating: 7.0mm (0G)
  - Shock, Non-operating: 7.0mm (0G)
- Reliability/Data Integrity
  - Annualised Failure Rate (AFR): 0.48%
  - Limited Warranties (years): 5

Power Management

- Power, Seek, Typical (W): 2.7W
- Power, Idle, Typical (W): 0.9W
- Temperature/Non-Operating
  - Temperatures: 0°C/40°C
  - Shock, Operating: 2ms (5G)
  - Shock, Non-operating: 1ms (5G)
- Operation
  - Height (mm/In): 9.5mm/0.374in
  - Depth (mm/In): 6.85mm/2.69in
  - Weight (lbs/kg): 115g/0.254lb
- Carton Unit Quantity: 50
- Cartons per Pallet / Cartons per Layer: 60/10
- Limiting Temperature: 0°C/40°C
- Limiting Shock: 2ms (5G)
- Limiting Depth: 100mm/3.94in
- Limiting Weight: 115g/0.254lb
- Limiting Carton Unit Quantity: 50

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