The Samsung Spinpoint M9T mobile SATA drive delivers high capacity in a thin design to give customers the ideal solution for external and mobile applications. The 2.5-inch drive is just 9.5mm thin and available in capacities of 1.5TB and 2TB.

**FEATURES**
- Max. 667GB formatted capacity per disk
- SATA Native Command Queueing feature
- TuMR/PMR head with FOD technology
- SATA 6Gb/s interface support
- Load/unload head technology
- ATA Security Mode feature set
- ATA S.M.A.R.T. feature set
- SilentSeek™
- NoiseGuard™

**DRIVE CONFIGURATION**
- Capacity: 1.5TB, 2TB
- Interface: SATA 6Gb/s (3Gb/s, 1.5Gb/s)
- Rotational Speed: 5400-RPM class
- Cache: 32MB

**PERFORMANCE SPECIFICATIONS**
- Average Seek Time (typical): 12ms
- Average Latency: 5.6ms
- Drive Ready Time (typical): 3.5ms
- Data Transfer Rate:
  - Media to/from Buffer (max): 169MB/s
  - Buffer to/from Host (max): 600MB/s

**RELIABILITY SPECIFICATIONS**
- Nonrecoverable Read Error: 1 sector in 10E14 bits
- Controlled Ramp Load/Unload: >600,000

**ACOUSTICS**
- Idle: 2.5 bels
- Performance Seek: 2.7 bels

**POWER REQUIREMENTS**
- Voltage: +5V ± 5%
- Spin-up Current (max): 1000 mA
- Read/Write (avg): 2.3W
- Low Power Idle (avg): 0.7W
- Standby (avg): 0.18W
- Sleep (avg): 0.18W

**ENVIRONMENTAL SPECIFICATIONS**
- Temperature:
  - Operating: 0 ~ 60°C
  - Nonoperating: −40 ~ 70°C
- Humidity (noncondensing):
  - Operating: 5% to 90%
  - Nonoperating: 5% to 95%
- Linear Shock (1/2-sine pulse):
  - Operating (2ms): 300 Gs
  - Nonoperating (1ms): 900 Gs
- Vibration (10Hz to 500Hz, random):
  - Operating: 1.5 Gms
  - Altitude (relative to sea level):
    - Operating: −304.8m to 3,048m
    - Nonoperating: −304.8m to 12,192m

**PHYSICAL DIMENSIONS**
- Height: 9.5mm ±0.2mm (0.374in ±0.008in)
- Width: 69.85mm ±0.25mm (2.75in ±0.010in)
- Length: 100.35mm +0.2/−0.25mm (3.951in +0.008/−0.010in)
- Weight (max): 130g (0.29lb)

**CAPACITIES SUMMARY**

<table>
<thead>
<tr>
<th>CAPACITY</th>
<th>1.5TB</th>
<th>2TB</th>
</tr>
</thead>
<tbody>
<tr>
<td>MODEL NUMBERS</td>
<td>ST1500LM006</td>
<td>ST2000LM003</td>
</tr>
<tr>
<td></td>
<td>ST1500LM007</td>
<td>ST2000LM004</td>
</tr>
<tr>
<td></td>
<td>ST1500LM010</td>
<td>ST2000LM005</td>
</tr>
</tbody>
</table>

1 MB = 1,000,000 bytes, 1GB = 1,000,000,000 bytes; accessible capacity may vary as some OS use binary numbering system for reported capacity.
2 Power-on to drive ready
3 Read/write operation at 0D for 32 sectors

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