

Data Sheet

## MobileMax®

An ideal combination of value, durability and low power consumption for mainstream mobile storage applications

**120, 80 and 40 GB • 5400 RPM**  
**2.5-inch mobile**

### Key Advantages

- 5400-RPM drives deliver higher performance and superior value compared to 4200-RPM drives.
- Low power consumption lets laptop users work longer between battery charges.
- Maxtor® MobileMax drives are optimized to operate when powered from a single USB cable in external storage applications.
- Rugged design fits the lifestyle of users on the go.

### Best-Fit Applications

- Mainstream laptop/whitebook
- External storage
- Industrial applications





An ideal combination of value, durability and low power consumption for mainstream mobile storage applications



### Mainstream 5400-RPM Performance

With laptop computers becoming more popular, users expect a level of performance similar to legacy desktop systems, which MobileMax offers. Faster drives are also required for users to take full advantage of faster backups using external drives with USB 2.0. The 5400-RPM spin speed provides the best value in performance—outpacing slower 4200-RPM mobile drives at a mainstream, competitive price.

### Durable

A durable drive is a must for mobile applications, whether for laptop or external storage. Able to withstand 900 Gs of nonoperating shock and 350 Gs of operating shock, MobileMax drives are rugged enough for users on the go.

### Low Power Consumption

With low power consumption, MobileMax drives allow mainstream laptop users to work and play longer between battery charges. And users backing up their data with external mobile storage devices can enjoy the freedom of fewer cables, because the start-up current of MobileMax is optimized to operate from a single USB cable on most systems.

### RoHS Compliant

MobileMax drives comply with the EU directive for Restriction of Hazardous Substances (RoHS)\*.

\*Directive 2002/95/EC of the European Parliament and of the Council of 27 January, 2003.

Specifications	120 GB <sup>1</sup>	80 GB <sup>1</sup>	40 GB <sup>1</sup>
Model Number	STM9120822A	STM980215A	STM940215A
Interface (MB/s)	Ultra ATA/100	Ultra ATA/100	Ultra ATA/100
<b>Performance</b>			
Transfer Rate			
Sustained Internal (MB/s)	44	44	44
Maximum External (MB/s)	100	100	100
Cache, Multisegmented (MB)	8	2	2
Average Seek (ms)	12.5	12.5	12.5
Average Latency (ms)	5.6	5.6	5.6
Spin Speed (RPM)	5400	5400	5400
<b>Configuration/Organization</b>			
Discs	2	1	1
Heads	3	2	1
Bytes per Sector	512	512	512
Recording Method	Perpendicular	Perpendicular	Perpendicular
<b>Reliability/Data Integrity</b>			
Head-Rest Method	Ramp Load	Ramp Load	Ramp Load
Load/Unload Cycles	>600,000	>600,000	>600,000
Nonrecoverable Read Errors per Bits Read	1 per 10E14	1 per 10E14	1 per 10E14
<b>Power Management</b>			
Startup Current 5v (amps max)	1.0	1.0	1.0
Power Management (W)			
Seek	2.0	2.0	2.0
Read/Write	2.0/1.8	2.0/1.8	2.0/1.8
Idle/Standby	0.8/0.2	0.8/0.2	0.8/0.2
<b>Environmental</b>			
Temperature, Operating (°C)	0 to 60	0 to 60	0 to 60
Temperature, Nonoperating (°C)	-40 to 70	-40 to 70	-40 to 70
Shock, Operating: 2 ms (Gs)	350	350	350
Shock, Nonoperating: 2 ms (Gs)	900	900	900
Acoustics (bels—sound power)			
Idle	2.4	2.4	2.4
Seek	3.0	3.0	3.0
<b>Physical</b>			
Height (in/mm)	.374/9.5	.374/9.5	.374/9.5
Width (in/mm)	2.75/69.85	2.75/69.85	2.75/69.85
Depth (in/mm)	3.957/100.5	3.957/100.5	3.957/100.5
Weight (lb/kg)	.22/102	.216/98	.216/98
<b>Warranty</b>			
Limited Warranty (years)	3	3	3

<sup>1</sup>One gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes when referring to hard drive capacity.

[www.seagate.com](http://www.seagate.com)  
1-800-SEAGATE (1-800-732-4283)

AMERICAS Seagate Technology LLC 920 Disc Drive, Scotts Valley, California 95066, United States, 831-438-6550  
 ASIA/PACIFIC Seagate Technology International Ltd. 7000 Ang Mo Kio Avenue 5, Singapore 569877, 65-6485-3888  
 EUROPE, MIDDLE EAST AND AFRICA Seagate Technology SAS 130-136, rue de Silly, 92773, Boulogne-Billancourt Cedex, France 33 1-4186 10 00

Copyright © 2008 Seagate Technology LLC. All rights reserved. Printed in USA. Seagate, Seagate Technology and the Wave logo are registered trademarks of Seagate Technology LLC in the United States and/or other countries. Maxtor, the Maxtor logo and MobileMax are either trademarks or registered trademarks of Seagate Technology LLC or one of its affiliated companies in the United States and/or other countries. All other trademarks or registered trademarks are the property of their respective owners. When referring to hard drive capacity, one gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes. Your computer's operating system may use a different standard of measurement and report a lower capacity. In addition, some of the listed capacity is used for formatting and other functions, and thus will not be available for data storage. Seagate reserves the right to change, without notice, product offerings or specifications. Publication Number: DS1600.2-0308US, March 2008