Maxtor®

Data Sheet

MobileMax® 2

Value, durability and low power consumption for mainstream mobile applications

120 GB and 80 GB • 5400 RPM • 2.5-inch mobile

Key Advantages

- SATA 1.5Gb/s interface with Native Command Queuing

- 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.

- 900 Gs of nonoperating shock make the drive ideal for notebook PCs and external storage applications.

- Optimized to operate when powered from a single USB cable in external storage applications

- RoHS compliant

- 3-year limited warranty

Best-Fit Applications

- Mainstream laptop/whitebook
- External storage
- Industrial applications

MobileMax® 2

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Mainstream 5400-RPM Performance

With laptop computers becoming more popular, users expect a level of performance similar to desktop systems. The Maxtor® MobileMax 2 drive meets this performance challenge via a SATA 1.5Gb/s interface with Native Command Queuing. 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

Whether it be for a laptop or external storage, a durable drive is a must for mobile applications. Able to withstand 900 Gs of nonoperating shock and up to 325 Gs of operating shock, the MobileMax 2 drive is rugged enough for users on the go.

Low Power Consumption

With low power consumption, the MobileMax 2 drive allows 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 the MobileMax 2 drive is optimized to operate from a single USB cable on most systems.

RoHS Compliant

The MobileMax 2 drive supports the EU directive for Restriction of Hazardous Substances (RoHS)*. All available MobileMax drives are RoHS-compliant.

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

Specifications	120 GB[1]	80 GB[1]
Model Number	STM9120817AS	STM980215AS
Interface (MB/s)	SATA 1.5Gb/s NCQ	SATA 1.5Gb/s NCQ
Performance		
Transfer Rate (MB/s)		
Sustained Internal (MB/s)	44	44
Maximum External (MB/s)	150	150
Cache, Multisegmented (MB)	8	2
Average Seek (ms)	13	13
Average Latency (ms)	5.6	5.6
Spin Speed	5400	5400
Configuration/Organization		
Discs/Heads	1/2	1/2
Bytes per Sector	512	512
Recording Method	Perpendicular	Perpendicular
Reliability/Data Integrity		
Head-Rest Method	Ramp Load	Ramp Load
Load/Unload Cycles	>600,000	>600,000
Nonrecoverable Read Errors per Bits Read	1 per 10E14	1 per 10E14
Power Management		
Startup Current 5v (amps max)	1.0	1.0
Power Mgmt (W)		
Seek	2.0	2.0
Read/Write	2.0/1.8	2.0/1.8
Idle/Standby	0.6/0.2	0.6/0.2
Environmental		
Temperature, Operating (°C)	0 to 60	0 to 60
Temperature, Nonoperating (°C)	−40 to 70	−40 to 70
Shock, Operating: 2 ms (Gs)	325	325
Shock, Nonoperating: 1 ms (Gs)	900	900
Acoustics (bels—sound power)		
Idle	2.4	2.4
Seek	3.0	3.0
Physical		
Height (in/mm)	.374/9.5	.374/9.5
Width (in/mm)	2.75/69.85	2.75/69.85
Depth (in/mm)	3.957/100.5	3.957/100.5
Weight (lb/kg)	.225/102	.21/96
Warranty		
Limited Warranty (years)	3	3

[1]When referring to hard drive capacity, one gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes.

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