

# Mobile USB Momentus®



Capacity		250GB	320GB	500GB	640GB	750GB	1TB	
Model	8 MB	ST250LM006	ST320LM008	ST500LM016	ST640LM021	ST750LM024	ST1000LM026	Seagate Models
Model	8 MB	HN-M250XBB	HN-M320XBB	HN-M500XBB	HN-M640XBB	HN-M750XBB	HN-M101XBB	Samsung Models

## FEATURES

- Max. 500GB formatted capacity per disk
- TuMR/PMR head with FOD technology
- USB 2.0 Interface Support
- Load/Unload Head Technology
- SilentSeek™
- NoiseGuard™

### DRIVE CONFIGURATION

Capacity <sup>1</sup>	250 ~ 750GB, 1TB
Interface	USB 2.0
Buffer DRAM Size <sup>2</sup>	8 MB
Rotational Speed	5,400 RPM Class

### PERFORMANCE SPECIFICATIONS

Average Seek time (typical)	12 ms
Average Latency	5.6 ms
Data Transfer Rate	
Media to/from Buffer (Max.)	145 MB/s
Buffer to/from Host (Max.)	60 MB/s
Drive Ready Time (typical) <sup>3</sup>	4 sec

### RELIABILITY SPECIFICATIONS

Non-recoverable Read Error	1 sector in 10 <sup>14</sup> bits
Controlled Ramp Load/Unload	600,000

### ACOUSTICS

Idle	2.4 Bel
Performance Seek	2.6 Bel

### POWER REQUIREMENTS

Voltage	+5V±5%
Spin-up Current (Max.)	750 mA
Seek (AVG) <sup>4</sup>	3.0 W
Read/Write (AVG)	3.2 W
Low Power Idle (AVG)	1.8 W
Standby (AVG)	1.4 W
Sleep (AVG)	1.4 W

### ENVIRONMENTAL SPECIFICATIONS

<b>Temperature</b>	
Operating	5 ~ 55
Non-operating	-40 ~ 70
<b>Humidity (non-condensing)</b>	
Operating	5-90 %
Non-operating	5-95 %
<b>Linear Shock (1/2 sine pulse)</b>	
Operating, 2ms	325 G
Non-operating, 2ms	750 G
<b>Vibration (swept sine, 1/4 octave per minute)</b>	
Operating	0.9 Grms
<b>Altitude (relative to sea level)</b>	
Operating	-300 to 3000 m
Non-operating	-400 to 15000 m

### PHYSICAL DIMENSION

Height	9.5 mm
Width	69.85 mm
Length	104 mm
Weight (max.)	107 g

\* Note : Design and specifications are subject to change without prior notice.

1.1MB = 1,000,000 Bytes, 1GB = 1,000,000,000 Bytes

Accessible capacity may vary as some OS uses binary numbering system for reported capacity

2 A small portion of the 8MB buffer memory is reserved for firmware use

3 Power-On to Drive Ready

4 30% duty cycle, random seek

