

Spinpoint™ M8U

Mobile USB 3.0



Capacity	320GB	500GB	750GB	1TB	Remark
Model	HN-M320ABB	HN-M500ABB	HN-M750ABB	HN-M101ABB	Original Model Numbers
Model	ST320LM005	ST500LM014	ST750LM023	ST1000LM025	New Model Numbers

FEATURES

- Max. 500GB formatted capacity per disk
- TuMR/PMR head with FOD technology
- USB 3.0 Interface Support
- Load/Unload Head Technology
- SilentSeek™
- NoiseGuard™

DRIVE CONFIGURATION

Capacity ¹	320GB, 500GB, 750GB, 1TB
Interface	USB 3.0
Rotational Speed	5400 RPM Class

PERFORMANCE SPECIFICATIONS

Average Latency	5.6 ms
Data Transfer Rate	
Media to/from Buffer (Max.)	145 MB/s
Buffer to/from Host (Max.)	400 MB/s

RELIABILITY SPECIFICATIONS

Non-recoverable Read Error	1 sector in 10 ¹⁴ 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) ³	3.0 W
Read/Write (AVG) ⁴	3.3 W
Low Power Idle (AVG)	1.8 W
Standby (AVG)	1.4 W
Sleep (AVG)	1.4 W

ENVIRONMENTAL SPECIFICATIONS

Temperature	
Operating	5 ~ 55 °C
Non-operating	-40 ~ 70 °C
Humidity (non-condensing)	
Operating	5-90 %
Non-operating	5-95 %
Linear Shock (1/2 sine pulse)	
Operating, 2ms	300 G
Non-operating, 2ms	600 G
Vibration (10-500 Hz , Random)	
Operating	0.9 Grms
Altitude (relative to sea level)	
Operating	-300 to 3000 m
Non-operating	-400 to 15000 m

PHYSICAL DIMENSION

Height	9.5 ± 0.2 mm (0.374 ± 0.008 in)
Width	69.85 ± 0.25 mm (2.75 ± 0.01 in)
Length	104.0 ± 0.4 mm (4.095 ± 0.016 in)
Weight (max.)	117 g (0.26 lb)

* 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. Power-on to drive ready

3. 30% duty cycle, random seek

4. Read/Write operation at OD for 32 sectors.



2.5" HDD product specification Rev 3.0
Match with product manual Rev 3.2

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