

Spinpoint™ M8 Video



The Samsung Spinpoint™ M8 Video drive delivers high-capacity storage in a streamlined design. Optimized for video recording and playback, the 2.5-inch drive is just 9.5mm thin and available in capacities up to 1TB.

FEATURES

- Max. 500GB formatted capacity per disk
- SATA Native Command Queuing Feature
- TuMR/PMR head with FOD technology
- Serial ATA 6.0 Gb/s Interface support
- Load/Unload Head Technology
- ATA Security Mode Feature Set
- ATA S.M.A.R.T. Feature Set
- SilentSeek™
- NoiseGuard™

DRIVE CONFIGURATION

- Capacity¹: 500GB, 1TB
- Interface: SATA 6.0 Gb/s (3.0, 1.5 Gb/s)
- Rotational Speed: 5400 RPM class

PERFORMANCE SPECIFICATIONS

- Average Seek Time (typical): 12 ms
- Average Latency: 5.6 ms
- Drive Ready Time (typical)²: 3 sec
- Data Transfer Rate
 - Media to/from Buffer (max.): 145 MB/s
 - Buffer to/from Host (max.): 300 MB/s

RELIABILITY SPECIFICATIONS

- Non-recoverable Read Error: 1 sector in 10¹⁴ bits
- Controlled Ramp Load/Unload: 600,000

ACOUSTICS

- Idle: 2.3 Bel
- Performance Seek: 2.5 Bel

POWER REQUIREMENTS

- Voltage: + 5V ± 5%
- Spin-up Current (max.): 1000 mA
- Seek (AVG)³: 2 W
- Read/Write (AVG)⁴: 2.3 W
- Low Power Idle (AVG): 0.7 W
- Standby (AVG): 0.2 W
- Sleep (AVG): 0.2 W

ENVIRONMENTAL SPECIFICATIONS

- Temperature
 - Operating: 0 ~ 60°C
 - Nonoperating: -40 ~ 70°C
- Humidity (non-condensing)
 - Operating: 5-90%
 - Nonoperating: 5-95%
- Linear Shock (1/2 sine pulse)
 - Operating (2 ms): 350 G
 - Non-operating (2 ms): 850 G
- Vibration (10-500 Hz, random)
 - Operating: 1.5 Grms
- Altitude (relative to sea level)
 - Operating: -300 to 3,000 m
 - Nonoperating: -400 to 15,000 m

PHYSICAL DIMENSIONS

- Height: 9.5 ± 0.2 mm (0.374 ± 0.008 in)
- Width: 69.75 ± 0.25 mm (2.75 ± 0.01 in)
- Length: 100.3 ± 0.4 mm (3.95 ± 0.016 in)
- Weight (max.): 117 g (0.26 lb)

CAPACITIES SUMMARY

CAPACITY	500GB	1TB
PART NUMBER	HN-M500MBB	HN-M101MBB
MODEL NUMBER	ST500VT002	ST1000VT000

*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 OSs use 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

Seagate Technology LLC
10200 South De Anza Boulevard, Cupertino, California 95014
408-658-1000

© 2015 Seagate Technology LLC. All rights reserved. Seagate and Seagate Technology are registered trademarks of Seagate Technology LLC in the United States and/or other countries. Momentus is either a trademark or registered trademark 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 properties of their respective owners. When referring to 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. Actual data rates may vary depending on operating environment and other factors. The export or re-export of hardware or software containing encryption may be regulated by the U.S. Department of Commerce, Bureau of Industry and Security (for more information, visit www.bis.doc.gov), and controlled for import and use outside of the U.S. Seagate reserves the right to change, without notice, product offerings or specifications.

SpinPoint™

SAMSUNG