

Momentus XT SSHD

Data Sheet

SSD Speed. HDD capacity. A Price that Makes Sense.

- Boots up and performs like an SSD¹
- Faster than a traditional HDD1
- SATA 6Gb/s with NCQ for interface speed
- All-in-one design for simplicity and ease of installation
- Works with any laptop or PC, any OS and any application
- Backed by a three-year limited warranty

Best-fit Applications

- · Laptops and mobile workstations
- Desktop and tower workstations
- High-performance laptop and desktop gaming systems
- Small form factor all-in-one PCs



¹ Performance may vary depending on user's hardware configuration and operating system. Testing performed on a Momentus XT 750GB SSHD.

Momentus® XT SSHD



Specifications	750GB¹	500GB ¹
Model Number	ST750LX003	ST95005620AS
NAND Type/Size	SLC/8GB	SLC/4GB
Interface	SATA 6Gb/s NCQ	SATA 3Gb/s NCQ
Special Performance Features		
Flash Management	Yes	_
Fast Boot Technology	Yes	_
Adaptive Memory™ Technology	Yes	Yes
Performance		
Spindle Speed (RPM)	7,200	7,200
Cache, Multi-segmented (MB)	32	32
SATA Transfer Rates Supported (Gb/s)	6.0/3.0/1.5	3.0/1.5
Seek Average, Read (ms)	11.0	11.0
Seek Average, Write (ms)	13.0	13.0
Configuration/Organisation		
Heads/Disks	4/2	4/2
Bytes per Sector	4,096	512
Reliability/Data Integrity		
Head-Rest Method	QuietStep™ Ramp Load	QuietStep Ramp Load
Load/Unload Cycles	600,000	600,000
Non-recoverable Read Errors per Bits Read, Max	1 per 10 ¹⁴	1 per 10 ¹⁴
Power Management		
Power (W)		
Seek, Typical	1.3	1.1
Idling, Typical	1.1	0.8
Environmental		
Temperature (°C)		
Operating	0 to 60	0 to 60
Non-operating	-40 to 70	-40 to 70
Shock (Gs)		
Operating: 2ms	350	350
Non-operating: 1ms	1,000	1,000
Acoustics (bels — sound power)		
Idling, Typical	2.3	2.3
Seek, Typical	2.6	2.6
Physical		
Height (in/mm)		
	0.370/9.5	0.370/9.5
Width (in/mm)	0.370/9.5 2.75/69.85	0.370/9.5 2.75/69.85
Width (in/mm)	2.75/69.85	2.75/69.85
Width (in/mm) Depth (in/mm)	2.75/69.85 3.951/100.35	2.75/69.85 3.951/100.35
Width (in/mm) Depth (in/mm) Weight (lb/g)	2.75/69.85 3.951/100.35 0.253/115	2.75/69.85 3.951/100.35 0.238/108

¹ One gigabyte, or GB, equals one billion bytes; and one terabyte, or TB, equals one trillion bytes when referring to drive capacity.



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AMERICAS ASIA/PACIFIC EUROPE, MIDDLE EAST AND AFRICA Seagate Technology LLC 10200 South De Anza Boulevard, Cupertino, California 95014, United States, +1 408 658 1000 Seagate Singapore International Headquarters Pte. Ltd. 7000 Ang Mo Kio Avenue 5, Singapore 569877, +65 6485 3888 Seagate Technology SAS 16-18 rue du Dôme, 92100 Boulogne-Billancourt, France, +33 1 41 86 10 00

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