Momentus® XT SSHD

Data Sheet

SSD Speed. HDD Capacity. A Price That Makes Sense.

- Boots and performs like an SSD[1]
- Faster than a traditional HDD[1]
- SATA 6Gb/s with NCQ for interface speed
- All-in-one design for simplicity and ease of installation
- Works in any laptop or PC, any OS and any application
- Backed by a 3-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	750GB[1]	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)	7200	7200
Cache, Multisegmented (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/Organization		
Heads/Disks	4/2	4/2
Bytes per Sector	4096	512
Reliability/Data Integrity		
Head-Rest Method	QuietStep™ Ramp Load	QuietStep Ramp Load
Load/Unload Cycles	600,000	600,000
Nonrecoverable Read Errors per Bits Read, Max	1 per 10E14	1 per 10E14
Power Management		
Power (W)		
Seek, Typical	1.3	1.1
Idle, Typical	1.1	0.8
Environmental		
Temperature (°C)		
Operating	0 to 60	0 to 60
Nonoperating	−40 to 70	−40 to 70
Shock (Gs)		
Operating: 2ms	350	350
Nonoperating: 1ms	1000	1000
Acoustics (bels—sound power)		
Idle, 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)	2.75/69.85	2.75/69.85
Depth (in/mm)	3.951/100.35	3.951/100.35
Weight (lb/g)	0.253/115	0.238/110
Carton Unit Quantity	50	50
Cartons per Pallet	60	60
Cartons per Layer	10	10

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

Compatible with Windows·7

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