

Momentus Thin

Data Sheet

The World's First 7 mm, 2.5 Inch Form Factor Drive

- 7 mm z-height form factor enables thin chassis design for all segments of laptop computing
- Self-Encrypting Drives that mitigate data breaches, comply with data protection regulations and preserve brand recognition¹
- Self-Encrypting Drives with FIPS 140-2 certification are approved by the US and Canadian governments^{1,2}

Best-Fit Applications

- Entry-level laptops enjoy a stylish, thin and lightweight design without exceeding your budget
- Netbooks have a thinner netbook without compromising on storage or affordability
- Ultraportables take advantage of a stylish, thin and lightweight design without compromising on features

Refer to specifications table for further information and feature options.
See FIPS 140-2 Level 2 Certificate at http://csrc.nist.gov/groups/STM/cmvp/documents/140-1/1401vend.htm



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Specifications	500GB1	320GB1	250GB1
Feature Options			
Standard Models	ST500LT012	ST320LT012	ST250LT012
Self-Encrypting Drive Models	ST500LT025		
Self-Encrypting Drive FIPS 140-2 Validated	ST500LT015		
Interface	SATA 6Gb/s NCQ	SATA 6Gb/s NCQ	SATA 6Gb/s NCQ
Cache (MB)	16	16	16
Configuration			
Bytes per Sector	4,096	4,096	4,096
Reliability/Data Integrity			
Head-Rest Method	QuietStep™ Ramp Load	QuietStep Ramp Load	QuietStep Ramp Load
Load/Unload Cycles	>600,000	>600,000	>600,000
Non-recoverable Read Errors per Bits Read	1 per 10E14	1 per 10E14	1 per 10E14
Annualised Failure Rate (AFR)	0.48%	0.48%	0.48%
Power Management			
Power (W) Seek, Typical Idling, Typical	1.2 0.45	1.2 0.45	1.2 0.45
Environmental			
Temperature (°C) Operating Non-operating	0 to 60 40 to 70	0 to 60 40 to 70	0 to 60 -40 to 70
Shock (Gs) Operating: 2ms Non-operating: 1ms	400 1,000	400 1,000	400 1,000
Acoustics (bels — sound power) Idling, Typical Seek, Typical	2.0 2.2	2.0 2.2	2.0 2.2
Physical			
Height (in/mm)	0.276/7.0	0.276/7.0	0.276/7.0
Width (in/mm)	2.76/70.1	2.76/70.1	2.76/70.1
Depth (in/mm)	3.959/100.55	3.959/100.55	3.959/100.55
Weight (lb/g)	0.209/95.0	0.209/95.0	0.209/95.0
Carton Unit Quantity	50	50	50
Cartons per Pallet	60	60	60
Cartons per Layer	10	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.





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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, 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 1-4186 10 00

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