

Data Sheet

Momentus® Thin

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

Key Advantages

- 7mm z-height form factor enables thin chassis design for all segments of laptop computing.
- Seagate SmartAlign[™] technology provides a transition to 4K sectors without the need for software utilities.
- Self-Encrypting Drives mitigate data breaches, comply with data protection regulations and preserve brand recognition.
- Self-Encrypting Drives with FIPS 140-2 certification' are approved for the U.S. and Canadian governments.

Best-Fit Applications

- Entry-level to high-performance laptops—Enjoy a stylish, thin and lightweight design without exceeding your budget.
- Netbooks—Get a thinner netbook without compromising on storage or affordability.
- Ultraportables—Take advantage of a stylish, thin and lightweight design without compromising on features.
- Slim consumer electronics devices—Add some style to your digital life.

1 See FIPS 140-2 Level 2 Certificate at http://csrc.nist.gov/groups/STM/cmvp/documents/140-1/1401vend.htm



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Seagate clearly demonstrates how to help differentiate, increase • Users now have 16MB of cache on both the mainstream profitability and meet market demand for slim computing.

- The 2.5-inch form factor enables compromise-free, costeffective and reliable storage for slim, entry-level laptops, high-end netbooks, ultraportables and CE devices.
- Seagate[®] Momentus[®] Thin drives come in 320, 250 and 160GB capacities, to provide the right capacity points for fullfunctioning computing devices. For performance enthusiasts, check out the 7200-RPM Momentus Thin drive.
- 5400-RPM and the high-performance 7200-RPM options.
- Seagate Self-Encrypting Drives (SED) deliver governmentgrade encryption without performance degredation protecting your data where it lives.
- The Momentus Thin SED is the first Trusted Computing Group Opal specification drive to achieve FIPS 140-2, Level-2 certification by the U.S. and Canadian governments.

Specifications	Momentus 5400 Drives			Momentus 7200 Drives		
	320GB1	250GB1	160GB ¹	320GB1	250GB1	160GB ¹
Feature Options						
Standard Models	ST320LT020	ST250LT003	ST160LT003	ST320LT007	ST250LT007	ST160LT007
Self-Encrypting Drive Models				ST320LT014	ST250LT014	
Self-Encrypting Drive FIPS 140-2 Validated				ST320LT009	ST250LT009	
nterface	SATA 3Gb/s NCQ	SATA 3Gb/s NCQ	SATA 3Gb/s NCQ	SATA 3Gb/s NCQ	SATA 3Gb/s NCQ	SATA 3Gb/s NCQ
Cache (MB)	16	16	16	16	16	16
Configuration						
Bytes per Sector	4096 ²	4096 ²	4096 ²	4096 ²	4096 ²	4096 ²
Reliability/Data Integrity						
Head-Rest Method	Quiet Step™ Ramp Load	Quiet Step Ramp Load				
_oad/Unload Cycles	>600,000	>600,000	>600,000	>600,000	>600,000	>600,000
Nonrecoverable Read Errors per Bits Read	1 per 10E14	1 per 10E14	1 per 10E14	1 per 10E14	1 per 10E14	1 per 10E14
Annualized Failure Rate (AFR)	0.48%	0.48%	0.48%	0.48%	0.48%	0.48%
Power Management						
Power (W) Seek, Typical Idle, Typical	1.4 0.48	1.4 0.48	1.4 0.48	1.6 0.66	1.6 0.66	1.6 0.66
Environmental						
Temperature (°C) Operating Nonoperating	0 to 60 40 to 70	0 to 60 -40 to 70	0 to 60 -40 to 70	0 to 60 -40 to 70	0 to 60 40 to 70	0 to 60 40 to 70
Shock (Gs) Operating: 2ms Nonoperating: 1ms	350 1000	350 1000	350 1000	350 1000	350 1000	350 1000
Acoustics (bels—sound power) Idle, Typical Seek, Typical	2.0 2.2	2.0 2.2	2.0 2.2	2.3 2.5	2.3 2.5	2.3 2.5
Physical						
leight (in/mm)	0.276/7.0	0.276/7.0	0.276/7.0	0.276/7.0	0.276/7.0	0.276/7.0
Vidth (in/mm)	2.76/70.1	2.76/70.1	2.76/70.1	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	3.959/100.55	3.959/100.55	3.959/100.55
Veight (lb/g)	0.203/92.0	0.203/92.0	0.203/92.0	0.203/92.0	0.203/92.0	0.203/92.0
Carton Unit Quantity	50	50	50	50	50	50
Cartons per Pallet	60	60	60	60	60	60
Cartons per Layer	10	10	10	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.

2 Advanced Format 4K sector drive with SmartAlign™ technology resolves misalignment conditions

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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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