

Laptop Ultrathin HDD

Data Sheet

Thin. Light. Affordable.

- One of the thinnest and lightest laptop HDDs—5mm, 93g and thinner than a pencil
- Affordable, high-capacity storage gives system builder options when integrating low profile storage into slim laptop and ultrabook solutions
- Compatible with every portable PC with a standard SATA 6Gb/s interface, enabling easy upgrade or design integration
- Up to 500GB in 25% less space—get industry-leading cost per GB and cost per millimetre
- Frees valuable space within a device to accommodate additional features
- Supports options for Seagate Secure™ Self-Encrypting Drive features with on-the-fly data encryption meeting TCG Opal protocol

Best-Fit Applications

- Slim laptops or ultrabooks
- Extending high-capacity, affordable storage into other applications and slim devices
- Backup storage



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Specifications	500GB ¹	320GB ¹
Standard Models	ST500LT032	ST320LT030
Self-Encrypting Drive model	ST500LT033 ²	
Interface	SATA 6Gb/s	SATA 6Gb/s
Cache (MB)	16	16
Performance		
Seek Average, Read (ms)	<13	<13
Seek Average, Write (ms)	<15	<15
Max. Sustained Data Transfer Rate OD (MB/s)	100	100
Max. Data Transfer Rate (MB/s)	600	600
Configuration/Organisation		
Bytes per Sector (logical/physical)	512/4,096	512/4,096
Reliability/Data Integrity		
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		
Startup Power, Typical (A)	1.0	1.0
Power (W)		
Seek, Typical	1.4	1.4
Idling, Typical	0.48	0.48
Environmental		
Temperature (°C)		
Operating	0 to 60	0 to 60
Non-operating	-40 to 70	-40 to 70
Shock (Gs)		
Operating: 2ms	400	400
Non-operating: 1ms	1,000	1,000
Acoustics (bels — sound power)		
Idling, Typical	2.0	2.0
Seek, Typical	2.2	2.2
Physical		
Height (mm/in)	5.0/0.197	5.0/0.197
Width (mm/in)	69.85/2.75	69.85/2.75
Depth (mm/in)	100.35/3.95	100.35/3.95
Weight (g/lb)	93/0.205	93/0.205
Carton Unit Quantity	50	50
Cartons per Layer	10	10
Cartons per Pallet	60	60
Special Features		
Halogen-free	Yes	Yes
RoHS compliance	Yes	Yes

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

² Self-Encrypting Drives (SED) are not available in all models or countries. May require TCG-compliant host or controller support.



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