

Laptop Ultrathin HDD

Data Sheet

Thin. Light. Affordable.

- One of the thinnest and lightest laptop HDDs—5mm, 3.3 oz 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-millimeter
- Frees up 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



Laptop Ultrathin HDD



| 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/Organization | | |
| Bytes per Sector (logical/physical) | 512/4096 | 512/4096 |
| Reliability/Data Integrity | | |
| Load/Unload Cycles | 600,000 | 600,000 |
| Nonrecoverable Read Errors per Bits Read, Max | 1 per 10E14 | 1 per 10E14 |
| Power Management | | |
| Startup Power, Typical (A) | 1.0 | 1.0 |
| Power (W) | | |
| Seek, Typical | 1.4 | 1.4 |
| Idle, Typical | 0.48 | 0.48 |
| Environmental | | |
| Temperature (°C) | | |
| Operating | 0 to 60 | 0 to 60 |
| Nonoperating | -40 to 70 | -40 to 70 |
| Shock (Gs) | | |
| Operating: 2ms | 400 | 400 |
| Nonoperating: 1ms | 1000 | 1000 |
| Acoustics (bels—sound power) | | |
| Idle, 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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