



2.5 FLASH-ACCELERATED HARD DRIVE DATA SHEET

The Fastest PC Hard Drive



Combining flash technology with a hard drive platform, the FireCuda™ 2.5 flash-accelerated hard drive represents the fastest 2.5-inch hard drive available.



Best-Fit Applications

- Mainstream PCs upgrades
- High-performance PCs
- PC gaming systems
- Workstations
- Creative professional systems

Key Advantages

Flash-accelerated technology delivers blazing load speeds that allow for nonstop performance, play and productivity up to 5x faster than standard HDDs.

Enormous 500GB, 1TB and 2TB options make FireCuda the highest-capacity 2.5-inch hard drive on the market, providing customers a high-performance experience while being able to store massive amounts of data, all within a thin 7mm z-height.

Green Hybrid™ feature reduces device power consumption, helping users extend their drive's life and keep their costs down with a power-efficient drive.

Multi-Tier Caching Technology™ (MTC) enhances performance by using NAND flash, DRAM and media caching technologies, enabling users to load applications and files even faster.

Adaptive Memory™ technology identifies frequently accessed data, thereby providing the data faster, consuming less power and extending drive life.

The cutting edge never felt so safe—5-year limited warranty is best-in-class for hard drive warranties.



| Specifications | 2TB ¹ | 1TB ¹ | 500GB ¹ |
|---|--|--|--|
| Standard Model Numbers | ST2000LX001 | ST1000LX015 | ST500LX025 |
| Interface | SATA 6Gb/s | SATA 6Gb/s | SATA 6Gb/s |
| Performance | | | |
| Bytes per Sector (logical/physical) | 512/4096 | 512/4096 | 512/4096 |
| Data Transfer Rate (MB/s) | Up to 140 | Up to 140 | Up to 140 |
| Versus 2.5-in. 5400-RPM/7200-RPM HDD Game Load Test ² Application Load Test ³ Windows 7 Boot Time ⁴ | 140% Faster/50% Faster 450% Faster/300% Faster 35% Faster/25% Faster | 140% Faster/50% Faster 450% Faster/300% Faster 35% Faster/25% Faster | 140% Faster/50% Faster 450% Faster/300% Faster 35% Faster/25% Faster |
| Reliability/Data Integrity | | | |
| Load/Unload Cycles | 600,000 | 600,000 | 600,000 |
| Head-Rest Method | QuietStep™ Ramp Load | QuietStep Ramp Load | QuietStep Ramp Load |
| Nonrecoverable Read Errors per Bits Read, Max | 1 per 10E14 | 1 per 10E14 | 1 per 10E14 |
| Limited Warranty (years) ⁵ | 5 | 5 | 5 |
| Power Management | | | |
| Startup Current (+5V, A) | 1.0 | 1.0 | 1.0 |
| Read/Writer Power, Average (W) | 1.7/1.8 | 1.6/1.7 | 1.6/1.7 |
| Idle Power, Average (W) | 0.5 | 0.45 | 0.45 |
| Environmental | | | |
| Temperature, Operating (°C) | 0 to 60 | 0 to 60 | 0 to 60 |
| Temperature, Nonoperating (°C) | -40 to 70 | -40 to 70 | -40 to 70 |
| Shock, Operating: 2ms (Gs) | 400 | 400 | 400 |
| Shock, Nonoperating: 1ms (Gs) | 1000 | 1000 | 1000 |
| Acoustics, Idle, Typical (bels—sound power) | 2.2 | 2.0 | 2.0 |
| Acoustics, Seek, Typical (bels—sound power) | 2.4 | 2.2 | 2.2 |
| Physical | | | |
| Height (mm/in) | 7.0/0.276 | 7.0/0.276 | 7.0/0.276 |
| Width (mm/in) | 69.85/2.750 | 69.85/2.750 | 69.85/2.750 |
| Depth (mm/in) | 100.35/3.951 | 100.35/3.951 | 100.35/3.951 |
| Weight (g/lb, max) | 96/0.212 | 92/0.203 | 92/0.203 |
| Carton Unit Quantity | 50 | 50 | 50 |
| Cartons Per Pallet/Cartons Per Layer | 60/10 | 60/10 | 60/10 |
| Special Features | | | |
| Halogen Free | Yes | Yes | Yes |
| RoHS Compliance | Yes | Yes | Yes |

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

2 Testing conducted by Seagate using PCMark 7 system storage gaming test. Results have been rounded for display purposes. HDD performance may vary by brand, model and application.

3 Testing conducted by Seagate using PCMark 7 system storage starting applications test. Results have been rounded for display purposes. HDD performance may vary by brand, model and application.

4 Testing conducted by Seagate using Intel Core i5-based with Intel QM77 chipset laptop and configured with 8GB RAM. Tested using Microsoft utility. Results have been rounded for display purposes. HDD performance may vary by brand, model and application.

5 Extended warranty products available. Consult your distributor for details.

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