* CAPACITY1TB
* SERIESBARRACUDA
* FORM FACTOR3.5 INCH
* RPM7200 RPM

Specification

|  |  |
| --- | --- |
| Specifications | 1TB |
| Standard Model Numbers | ST1000DM010 |
| Bytes per Sector | 4096 |
| Heads/Disks | 2/1 |
| Performance | |
| Interface | SATA 6Gb/s |
| SATA Transfer Rates Supported (Gb/s) | 6.0/3.0/1.5 |
| Max Sustained Data Rate, OD Read (MB/s) | 210 |
| Cache, Multisegmented (MB) | 64 |
| Reliability/Data Integrity | |
| Nonrecoverable Read Errors per Bits Read, Max | 1 per 10E14 |
| Power-On Hours (per year) | 2400 |
| Workload Rate Limit (TB/year) | 55 |
| Power Management | |
| Startup Power (A) | 2.0 |
| Operating Mode, Typical (W) | 5.3 |
| Idle Average (W) | 4.6 |
| Standby Mode/Sleep Mode, Typical (W) | 0.94/0.94 |
| Voltage Tolerance, Including Noise (5V) | ±5% |
| Voltage Tolerance, Including Noise (12V) | ±10% |
| Environmental | |
| Operating (ambient, min) | 0 |
| Operating (drive case, max) | 60 |
| Nonoperating (ambient) | –40 to 70 |
| Halogen Free | Yes |
| RoHS Compliance | Yes |
| Physical | |
| Height (mm/in, max) | 19.99/0.787 |
| Width (mm/in, max) | 101.6/4.0 |
| Depth (mm/in, max) | 146.99/5.787 |
| Weight (g/lb, typical) | 400/0.88 |
| Warranty | 2 Years |
| Note | \*\*\*Features, Price and Specifications are subject to change without notice. |

**Features**

* 7200 RPM spindle speed.
* Full-track multiple-sector transfer capability without local processor intervention.
* High instantaneous (burst) data-transfer rates (up to 600MB per second).
* Native Command Queuing with command ordering to increase performance in demanding applications.
* Quiet operation.
* Seagate AcuTrac™ servo technology delivers dependable performance, even with hard drive track widths of only 75 nanometers.
* Seagate OptiCache™ technology boosts overall performance by as much as 45% over the previous generation.
* Seagate SmartAlign™ technology provides a simple, transparent migration to Advanced Format 4K sectors
* SeaTools diagnostic software performs a drive self-test that eliminates unnecessary drive returns.
* State-of-the-art cache and on-the-fly error-correction algorithms.
* Support for S.M.A.R.T. drive monitoring and reporting.
* Supports latching SATA cables and connectors.
* TGMR recording technology provides the drives with increased areal density.
* Worldwide Name (WWN) capability uniquely identifies the drive.