



3.5 HDD DATA SHEET

Amazing Versatility and Trusted Dependability Meet Incredible Speed



Lightning-fast performance and titanic storage up to 12TB give your desktop or creative professional system the edge you need to be your very best. BarraCuda® Pro 3.5-inch drives are also backed by a 5-year limited warranty.



Best-Fit Applications

- Creative pros systems
- Desktop or all-in-one PCs
- Home servers
- Entry-level direct-attached storage devices (DAS)



Key Advantages

Highest capacity. Up to 12TB means you get the highest storage capacity available in the 3.5-inch PC class.

Peace of mind. A 5-year limited warranty and 300TB/year workload limit means this drive has your back.

Incredible speed. Delivers 7200-RPM spin speed along with sustained data rates up to 250MB/s and burst data rates of 6Gb/s.

Energy efficient. This drive is one of the lowest-power 3.5-inch drives on the market.

Ultimate protection. Bundled with Seagate® Rescue Data Recovery, this drive is protected for 2 years against any mechanical, accidental or natural disaster—with a 90% success rate for in-house recovery.¹

History of reliability. For 20+ years, the Barracuda family has had a reputation for complete reliability.

Optimized for creative pros. Designed and tuned for creative applications, these drives feature higher random performance and drive reliability than typical PC compute drives.

¹ Registration required to activate.



| Specifications | 12TB | 10TB | 8TB |
|---|------------------|------------------|------------------|
| Standard Model Numbers | ST12000DM0007 | ST10000DM0004 | ST8000DM0004 |
| Bytes per Sector | 512 | 512 | 512 |
| Performance | | | |
| Interface | SATA 6Gb/s | SATA 6Gb/s | SATA 6Gb/s |
| SATA Transfer Rates Supported (Gb/s) | 6.0/3.0/1.5 | 6.0/3.0/1.5 | 6.0/3.0/1.5 |
| Max. Sustained Transfer Rate OD (MB/s) | 250MB/s | 220MB/s | 220MB/s |
| Cache, Multisegmented (MB) | 256 | 256 | 256 |
| Reliability/Data Integrity | | | |
| Load/Unload Cycles | 300,000 | 300,000 | 300,000 |
| Nonrecoverable Read Errors per Bits Read, Max | 1 per 10E15 | 1 per 10E15 | 1 per 10E15 |
| Power-On Hours per Year (24x7) | 8760 | 8760 | 8760 |
| Data Recovery and Rescue Services | Yes | Yes | Yes |
| Workload Rate Limit (TB/year) ¹ | 300 | 300 | 300 |
| Limited Warranty (years) | 5 | 5 | 5 |
| Power Management | | | |
| Startup Power (A) | 1.8 | 1.8 | 1.8 |
| Operating Mode, Typical (W) | 7.8 | 7.8 | 6.8 |
| Idle Average (W) | 5.0W | 5.0W | 4.5W |
| Standby Mode/Sleep Mode, Typical (W) | 0.80/0.80 | 0.80/0.80 | 0.80/0.80 |
| Environmental/Temperature | | | |
| Operating (ambient, min) | 0°C | 0°C | 0°C |
| Operating (drive case, max) | 60°C | 60°C | 60°C |
| Nonoperating (ambient) | -40°C – 70°C | -40°C – 70°C | -40°C – 70°C |
| Halogen Free | Yes | Yes | Yes |
| RoHS Compliance | Yes | Yes | Yes |
| Physical | | | |
| Height (mm/in, max) | 26.11mm/1.028in | 26.11mm/1.028in | 26.11mm/1.028in |
| Width (mm/in, max) | 101.85mm/4.010in | 101.85mm/4.010in | 101.85mm/4.010in |
| Depth (mm/in, max) | 146.99mm/5.787in | 146.99mm/5.787in | 146.99mm/5.787in |
| Weight (g/lb) | 705g/1.55lb | 705g/1.55lb | 650g/1.43lb |
| Carton Unit Quantity | 20 | 20 | 20 |
| Cartons per Pallet/Cartons per Layer | 40 / 8 | 40 / 8 | 40 / 8 |

¹ BarraCuda Pro drives are designed for always-on workloads of 300TB/year. For higher transaction workloads, see Seagate's enterprise-class drive offerings



| Specifications | 6TB | 4TB | 2TB |
|---|------------------|------------------|------------------|
| Standard Model Numbers | ST6000DM004 | ST4000DM006 | ST2000DM009 |
| Bytes per Sector | 512 | 512 | 512 |
| Performance | | | |
| Interface | SATA 6Gb/s | SATA 6Gb/s | SATA 6Gb/s |
| SATA Transfer Rates Supported (Gb/s) | 6.0/3.0/1.5 | 6.0/3.0/1.5 | 6.0/3.0/1.5 |
| Max. Sustained Transfer Rate OD (MB/s) | 220MB/s | 220MB/s | 195MB/s |
| Cache, Multisegmented (MB) | 256 | 128 | 128 |
| Reliability/Data Integrity | | | |
| Load/Unload Cycles | 300,000 | 300,000 | 300,000 |
| Nonrecoverable Read Errors per Bits Read, Max | 1 per 10E15 | 1 per 10E15 | 1 per 10E15 |
| Power-On Hours per Year (24x7) | 8760 | 8760 | 8760 |
| Data Recovery and Rescue Services | Yes | Yes | Yes |
| Workload Rate Limit (TB/year) ¹ | 300 | 300 | 300 |
| Limited Warranty (years) | 5 | 5 | 5 |
| Power Management | | | |
| Startup Power (A) | 2.0 | 2.0 | 2.0 |
| Operating Mode, Typical (W) | 9.0 | 6.7 | 6.7 |
| Idle Average (W) | 7.2W | 6.0W | 4.5W |
| Standby Mode/Sleep Mode, Typical (W) | 0.6/0.6 | 0.6/0.6 | 0.8/0.8 |
| Environmental/Temperature | | | |
| Operating (ambient, min) | 0°C | 0°C | 0°C |
| Operating (drive case, max) | 60°C | 60°C | 60°C |
| Nonoperating (ambient) | -40°C – 70°C | -40°C – 70°C | -40°C – 70°C |
| Halogen Free | Yes | Yes | Yes |
| RoHS Compliance | Yes | Yes | Yes |
| Physical | | | |
| Height (mm/in, max) | 26.1mm/1.028in | 26.1mm/1.028in | 26.1mm/1.028in |
| Width (mm/in, max) | 101.85mm/4.010in | 101.85mm/4.010in | 101.85mm/4.010in |
| Depth (mm/in, max) | 146.99mm/5.787in | 5.787mm/146.99in | 146.99mm/5.787in |
| Weight (g/lb) | 780g/1.72lb | 680g/1.50lb | 550g/1.21lb |
| Carton Unit Quantity | 20 | 20 | 20 |
| Cartons per Pallet/Cartons per Layer | 40 / 8 | 40 / 8 | 40 / 8 |

¹ BarraCuda Pro drives are designed for always-on workloads of 300TB/year. For higher transaction workloads, see Seagate's enterprise-class drive offerings

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