

3.5 HDD DATA SHEET

Amazing Versatility and Trusted Dependability Meet Incredible Speed



Lightning-fast performance and titanic storage up to 14 TB 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)



Rescue
DATA RECOVERY
SERVICES

Key Advantages

Highest capacity. Up to 14 TB means you get the highest storage capacity available in the 3.5-inch PC class.

Peace of mind. A 5-year limited warranty and 300 TB/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 Services, 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.

Optimised 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 | 14 TB | 12 TB | 12 TB | 10 TB | 10 TB |
|--|--------------------|--------------------|--------------------|--------------------|--------------------|
| Standard Model Numbers | ST14000DM001 | ST12000DM001 | ST12000DM0007 | ST10000DM001 | ST10000DM0004 |
| Bytes per Sector | 512 | 512 | 512 | 512 | 512 |
| Performance | | | | | |
| Interface | SATA 6Gb/s | SATA 6Gb/s | 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 | 6.0/3.0/1.5 | 6.0/3.0/1.5 |
| Max Sustained Data Rate, OD Read (MB/s) | 250MB/s | 250MB/s | 250MB/s | 220MB/s | 220MB/s |
| Cache, Multi-segmented (MB) | 256 | 256 | 256 | 256 | 256 |
| Recording Technology | CMR | CMR | CMR | CMR | CMR |
| Reliability/Data Integrity | | | | | |
| Load/Unload Cycles | 300,000 | 300,000 | 300,000 | 300,000 | 300,000 |
| Non-recoverable Read Errors per Bits Read, Max | 1 per 10E15 | 1 per 10E15 | 1 per 10E15 | 1 per 10E15 | 1 per 10E15 |
| Power-On Hours (per year) | 8,760 | 8,760 | 8,760 | 8,760 | 8,760 |
| Data Recovery and Rescue Services | Yes | Yes | Yes | Yes | Yes |
| Workload Rate Limit (TB/year) ¹ | 300 | 300 | 300 | 300 | 300 |
| Warranty, Limited (years) | 5 | 5 | 5 | 5 | 5 |
| Power Management | | | | | |
| Startup Power (A) | 2 | 2 | 1.8 | 2 | 1.8 |
| Operating Mode, Typical (W) | 6.9 | 6.9 | 7.8 | 6.9 | 7.8 |
| Idling Average (W) | 4.9 W | 4.9 W | 5 W | 4.9 W | 5 W |
| Standby Mode/Sleep Mode, Typical (W) | 0.8/0.8 | 0.8/0.8 | 0.8/0.8 | 0.8/0.8 | 0.8/0.8 |
| Environmental/Temperature | | | | | |
| Operating (ambient, min) | 0°C | 0°C | 0°C | 0°C | 0°C |
| Operating (drive case, max) | 60°C | 60°C | 60°C | 60°C | 60°C |
| Non-operating (ambient) | -40°C – 70°C | -40°C – 70°C | -40°C – 70°C | -40°C – 70°C | -40°C – 70°C |
| Halogen-free | Yes | Yes | Yes | Yes | Yes |
| RoHS compliance | Yes | Yes | Yes | Yes | Yes |
| Physical | | | | | |
| Height (mm/in, max) | 26.11 mm/1.028 in | 26.11 mm/1.028 in | 26.11 mm/1.028 in | 26.11 mm/1.028 in | 26.11 mm/1.028 in |
| Width (mm/in, max) | 101.85 mm/4.01 in | 101.85 mm/4.01 in | 101.85 mm/4.01 in | 101.85 mm/4.01 in | 101.85 mm/4.01 in |
| Depth (mm/in, max) | 146.99 mm/5.787 in | 146.99 mm/5.787 in | 146.99 mm/5.787 in | 146.99 mm/5.787 in | 146.99 mm/5.787 in |
| Weight (g/lb, typical) | 690 g/1.521 lb | 690 g/1.521 lb | 705 g/1.55 lb | 690 g/1.521 lb | 705 g/1.55 lb |
| Carton Unit Quantity | 20 | 20 | 20 | 20 | 20 |
| Cartons per Pallet / Cartons per Layer | 40/8 | 40/8 | 40/8 | 40/8 | 40/8 |

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



| Specifications | 8 TB | 6 TB | 4 TB | 2 TB |
|--|--------------------|--------------------|--------------------|--------------------|
| Standard Model Numbers | ST8000DM0004 | ST6000DM004 | ST4000DM006 | ST2000DM009 |
| Bytes per Sector | 512 | 512 | 512 | 512 |
| Performance | | | | |
| Interface | SATA 6Gb/s | 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 | 6.0/3.0/1.5 |
| Max Sustained Data Rate, OD Read (MB/s) | 220MB/s | 220MB/s | 220MB/s | 195MB/s |
| Cache, Multi-segmented (MB) | 256 | 256 | 128 | 128 |
| Recording Technology | CMR | CMR | CMR | CMR |
| Reliability/Data Integrity | | | | |
| Load/Unload Cycles | 300,000 | 300,000 | 300,000 | 300,000 |
| Non-recoverable Read Errors per Bits Read, Max | 1 per 10E15 | 1 per 10E15 | 1 per 10E15 | 1 per 10E15 |
| Power-On Hours (per year) | 8,760 | 8,760 | 8,760 | 8,760 |
| Data Recovery and Rescue Services | Yes | Yes | Yes | Yes |
| Workload Rate Limit (TB/year) ¹ | 300 | 300 | 300 | 300 |
| Warranty, Limited (years) | 5 | 5 | 5 | 5 |
| Power Management | | | | |
| Startup Power (A) | 1.8 | 2 | 2 | 2 |
| Operating Mode, Typical (W) | 6.8 | 9.0 | 6.7 | 6.7 |
| Idling Average (W) | 4.4 W | 7.2 W | 6 W | 4.5 W |
| Standby Mode/Sleep Mode, Typical (W) | 0.8/0.8 | 0.6/0.6 | 0.6/0.6 | 0.8/0.8 |
| Environmental/Temperature | | | | |
| Operating (ambient, min) | 0°C | 0°C | 0°C | 0°C |
| Operating (drive case, max) | 60°C | 60°C | 60°C | 60°C |
| Non-operating (ambient) | -40°C – 70°C | -40°C – 70°C | -40°C – 70°C | -40°C – 70°C |
| Halogen-free | Yes | Yes | Yes | Yes |
| RoHS compliance | Yes | Yes | Yes | Yes |
| Physical | | | | |
| Height (mm/in, max) | 26.11 mm/1.028 in | 26.11 mm/1.028 in | 26.11 mm/1.028 in | 26.11 mm/1.028 in |
| Width (mm/in, max) | 101.85 mm/4.01 in | 101.85 mm/4.01 in | 101.85 mm/4.01 in | 101.85 mm/4.01 in |
| Depth (mm/in, max) | 146.99 mm/5.787 in | 146.99 mm/5.787 in | 146.99 mm/5.787 in | 146.99 mm/5.787 in |
| Weight (g/lb, typical) | 650 g/1.433 lb | 780 g/1.72 lb | 680 g/1.5 lb | 550 g/1.21 lb |
| Carton Unit Quantity | 20 | 20 | 20 | 20 |
| Cartons per Pallet / Cartons per Layer | 40/8 | 40/8 | 40/8 | 40/8 |

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

seagate.com



© 2020 Seagate Technology LLC. All rights reserved. Seagate, Seagate Technology, and the Spiral logo are registered trademarks of Seagate Technology LLC in the United States and/or other countries. BarraCuda is either a trademark or registered trademark of Seagate Technology LLC or one of its affiliated companies in the United States and/or other countries. All other trademarks or registered trademarks are the property of their respective owners. When referring to drive capacity, one gigabyte, or Gb, equals one billion bytes; and one terabyte, or TB, equals one trillion bytes. Your computer's operating system may use a different standard of measurement and report a lower capacity. In addition, some of the listed capacity is used for formatting and other functions, and thus will not be available for data storage. Actual data rates may vary depending on operating environment and other factors. Seagate reserves the right to change, without notice, product offerings or specifications. DS1901.10-2006GB May 2020