

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)



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

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