

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)	2.0	2.0	2.0
Operating Mode, Typical (W)	7.8	7.8	6.8
Idle Average (W)	4.83W	4.42W	4.42W
Standby Mode/Sleep Mode, Typical (W)	0.84/0.80	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/1.554lb	705g/1.554lb	705g/1.554lb
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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AMERICAS Seagate Technology LLC 10200 South De Anza Boulevard, Cupertino, California 95014, United States, 408-658-1000
 ASIA/PACIFIC Seagate Singapore International Headquarters Pte. Ltd. 7000 Ang Mo Kio Avenue 5, Singapore 569877, 65-6485-3888
 EUROPE, MIDDLE EAST AND AFRICA Seagate Technology SAS 16-18, rue du Dôme, 92100 Boulogne-Billancourt, France, 33 1-4186 10 00

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