



BARRACUDA^{PRO}

COMPUTE



3.5 HDD DATA SHEET

Amazing Versatility and Trusted
Dependability Meet Incredible Speed



Lightning-fast performance and titanic storage up to 10TB give your laptop or workstation 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

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

Key Advantages

7200 RPM makes BarraCuda Pro one of the fastest 6TB, 8TB and 10TB drives on the market.¹

Large onboard cache is designed to quickly access frequently-used applications and files.

BarraCuda Pro draws a mere 6.8W, making it one of the lowest-power 3.5-inch drives on the market.²

Store data faster with SATA 6Gb/s interface that optimizes burst performance.¹

Up to 220MB/s maximum sustained transfer rate.

Worry less with a hard drive that has your back—BarraCuda Pro comes equipped with a 5-year limited warranty.

For 20+ years, the BarraCuda family has delivered super reliable drives.

No capacity constraints. You can have one of the highest-capacity 3.5-inch PC-compute drives on the market with BarraCuda Pro (up to 10TB).

¹ Performance may vary depending on user's hardware configuration and operating system.

² 10TB model only.



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Specifications	10TB ¹	8TB ¹	6TB ¹
Standard Model Numbers	ST10000DM0004	ST8000DM005	ST6000DM004
Interface Options (with NCQ)	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s
Features and Performance			
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)	220	220	220
Cache, Multisegmented (MB)	256	256	256
Configuration/Organization			
Heads/Disks	7/14	6/12	6/12
Bytes per Sector	4096	4096	4096
Reliability/Data Integrity			
Load/Unload Cycles	300,000	300,000	300,000
Nonrecoverable Read Errors per Bits Read, Max	1 per 10E14	1 per 10E14	1 per 10E14
Power-On Hours (per year)	2400	2400	2400
Workload Rate Limit (TB/year) ²	180	180	180
Warranty, Limited (years) ³	5	5	5
Power Management			
Startup Power (A)	1.8	2.0	2.0
Operating Mode, Typical (W)	6.8	9.0	9.0
Idle Average (W) ⁴	4.5	7.2	7.2
Standby Mode/Sleep Mode, Typical (W)	0.8/0.8	0.6/0.6	0.6/0.6
Voltage Tolerance, Including Noise (5V)	±5%	±5%	±5%
Voltage Tolerance, Including Noise (12V)	±10%	±10%	±10%
Environmental			
Temperature (°C)			
Operating (ambient, min)	0	0	0
Operating (drive case, max)	60	60	60
Halogen Free	Yes	Yes	Yes
RoHS Compliance	Yes	Yes	Yes
Physical			
Height (mm/in, max)	26.11/1.028	26.11/1.028	26.11/1.028
Width (mm/in, max)	101.85/4.01	101.6/4.0	101.6/4.0
Depth (mm/in, max)	146.99/5.787	146.99/5.787	146.99/5.787
Weight (g/lb, typical)	650/1.433	780/1.720	780/1.720
Carton Unit Quantity	20	20	20
Cartons per Pallet/Cartons per Layer	40/8	40/8	40/8

1 One gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes when referring to drive capacity.

2 BarraCuda Pro drives are designed for always-on workloads of 180TB/year. For higher transaction workloads, see Seagate's enterprise-class drive offerings.

3 Extended warranty products available. Consult your distributor for details.

4 Idle information may be based on Idle 1 or Idle 2 specifications. Consult the product manual for more information.

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