



# BARRACUDA<sup>PRO</sup>

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 desktop or creative professional system the edge you need to be your very best. BarraCuda<sup>®</sup> 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 the fastest 6TB, 8TB and 10TB PC-compute drives on the market.<sup>1</sup>

**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.<sup>2</sup>

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

**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 the highest-capacity 3.5-inch PC-compute drive on the market with BarraCuda Pro (up to 10TB).

<sup>1</sup> Performance may vary depending on user's hardware configuration and operating system.  
<sup>2</sup> 10TB model only.



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Specifications	10TB <sup>1</sup>	8TB <sup>1</sup>	6TB <sup>1</sup>
Standard Model Numbers	ST10000DM0004	ST8000DM005	ST6000DM004
Interface Options (with NCQ)	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s
<b>Features and Performance</b>			
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
<b>Configuration/Organization</b>			
Heads/Disks	7/14	6/12	6/12
Bytes per Sector	4096	4096	4096
<b>Reliability/Data Integrity</b>			
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)	8760	8760	8760
Workload Rate Limit (TB/year) <sup>2</sup>	300	300	300
Warranty, Limited (years) <sup>3</sup>	5	5	5
<b>Power Management</b>			
Startup Power (A)	1.8	2.0	2.0
Operating Mode, Typical (W)	6.8	9.0	9.0
Idle Average (W) <sup>4</sup>	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%
<b>Environmental</b>			
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
<b>Physical</b>			
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 300TB/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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