



# BARRACUDA

COMPUTE

SEAGATE

3.5 HDD DATA SHEET

Amazing Versatility.  
Unmatched Dependability.



Seagate brings over 20 years of trusted performance and reliability to the Seagate® BarraCuda® 3.5 inch HDDs - now available in capacities up to 4 TB.



## Best-Fit Applications

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

## Key Advantages

**Versatile** HDDs for all your PC needs bring you industry-leading excellence in personal computing.

**For over 20 years** the BarraCuda family has delivered super-reliable storage for the hard drive industry.

**Capacities up to 4 TB** for desktops, BarraCuda leads the market with the widest range of storage options available.

**Advanced Power** modes help save energy without sacrificing performance.<sup>1</sup>

**SATA 6 Gb/s** interface optimises burst performance.<sup>1</sup>

**Seagate Secure** models provide Self-Encrypting Drive (SED) hardware-based data security and deliver an Instant Secure Erase feature for safe, fast and easy drive retirement. They meet NIST 800-88 media sanitization specification and also support the Trusted Computer Group (TCG) Opal standard.<sup>2, 3</sup>

<sup>1</sup> Performance may vary depending on user's hardware configuration and operating system.

<sup>2</sup> Seagate Secure models are not available in all countries. May require TCG-compliant host or controller support.

<sup>3</sup> Refer to specifications table for further information and feature options.



Specifications	4 TB <sup>1</sup>	3 TB <sup>1</sup>	2 TB <sup>1</sup>	1 TB <sup>1</sup>	500 GB <sup>1</sup>
Standard Model Numbers	ST4000DM004	ST3000DM008	ST2000DM006	ST1000DM010	ST500DM009
Seagate Secure Model Numbers	—	ST3000DM009	ST2000DM007	—	—
Bytes per Sector	4,096	4,096	4,096	4,096	4,096
Heads/Discs	4/2	6/3	6/3 or 4/2	2/1	2/1
<b>Performance</b>					
Interface	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/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)	190	210	210	210	210
Cache, Multi-segmented (MB)	256	64	64	64	32
<b>Reliability/Data Integrity</b>					
Load/Unload Cycles	300,000	300,000	300,000	—	—
Non-recoverable Read Errors per Bits Read, Max	1 per 10E14	1 per 10E14	1 per 10E14	1 per 10E14	1 per 10E14
Power-On Hours (per year)	2,400	2,400	2,400	2,400	2,400
Workload Rate Limit (TB/year)	55	55	55	55	55
Warranty, Limited (years)	2	2	2	2	2
<b>Power Management</b>					
Startup Power (A)	2.0	2.5	2.5	2.0	2.0
Operating Mode, Typical (W)	5.0	8.0	8.0	5.3	5.3
Idling Average (W)	2.5	5.4	5.4	4.6	4.6
Standby Mode/Sleep Mode, Typical (W)	0.25/0.25	0.75/0.75	0.75/0.75	0.94/0.94	0.94/0.94
Voltage Tolerance, Including Noise (5V)	±5%	±5%	±5%	±5%	±5%
Voltage Tolerance, Including Noise (12V)	±10%	±10%	±10%	±10%	±10%
<b>Environmental</b>					
Temperature (°C)					
Operating (ambient, min)	0	0	0	0	0
Operating (drive case, max)	60	60	60	60	60
Non-operating (ambient)	-40 to 70	-40 to 70	-40 to 70	-40 to 70	-40 to 70
Halogen-free	Yes	Yes	Yes	Yes	Yes
RoHS compliance	Yes	Yes	Yes	Yes	Yes
<b>Physical</b>					
Height (mm/in, max)	20.17/0.794	26.11/1.028	26.11/1.028	19.99/0.787	19.99/0.787
Width (mm/in, max)	101.6/4.0	101.6/4.0	101.6/4.0	101.6/4.0	101.6/4.0
Depth (mm/in, max)	146.99/5.787	146.99/5.787	146.99/5.787	146.99/5.787	146.99/5.787
Weight (g/lb, typical)	490/1.08	626/1.38	626/1.38	400/0.88	400/0.88
Carton Unit Quantity	25	20	20	25	25
Cartons per Pallet / Cartons per Layer	40/8	40/8	40/8	40/8	40/8

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