

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 HDD — now available in capacities up to 8TB.



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 8TB for desktops, BarraCuda leads the market with the widest range of storage options available.

Advanced Power modes help save energy without sacrificing performance.¹

SATA 6 Gb/s interface optimises burst performance.¹

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

Best-Fit Applications

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



Specifications	8TB	6TB	4TB	3TB
Standard Model Number	ST8000DM004	ST6000DM003	ST4000DM004	ST3000DM007
Bytes per Sector	512e	512e	512e	512e
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)	190MB/s	185MB/s	190MB/s	185MB/s
Cache, Multisegmented (MB)	256MB	256MB	256MB	256MB
Rotational Speed (RPM)	5400RPM	5400RPM	5400RPM	5400RPM
Recording Technology	SMR	SMR	SMR	SMR
Reliability/Data Integrity				
Load/Unload Cycles	600,000	600,000	600,000	600,000
Nonrecoverable Read Errors per Bits Read, Max	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
Workload Rate Limit (TB/Year)	55	55	55	55
Warranty, Limited (years)	2	2	2	2
Power Management				
Startup Power (A)	2.0 A	2.0 A	2.0 A	2.0 A
Operating Mode, Typical (W)	5.3	5.3	3.7	3.7
Idle Average (W)	3.4 W	3.4 W	2.5 W	2.5 W
Standby Mode/Sleep Mode, Typical (W)	0.25/0.25	0.25/0.25	0.25/0.25	0.25/0.25
Voltage Tolerance, Inc. Noise (5V)	±5%	±5%	±5%	±5%
Voltage Tolerance, Inc. Noise (12V)	±10%	±10%	±10%	±10%
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
Nonoperating (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	20.20 mm/0.795 in	20.20 mm/0.795 in
Width (mm/in, max)	101.85 mm/4.010 in	101.85 mm/4.010 in	101.85 mm/4.010 in	101.85 mm/4.010 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)	630 g/1.389 lb	610 g/1.345 lb	490 g/1.08 lb	490 g/1.08 lb
Carton Unit Quantity	20	20	25	25
Cartons per Pallet/Cartons per Layer	40/8	40/8	40 / 8	40 / 8



Specifications	2TB	1TB
Standard Model Number	ST2000DM005	ST2000DM008
Bytes per Sector	512e	512e
Performance		
Interface	SATA 6Gb/s	SATA 6Gb/s
SATA Transfer Rates Supported (Gb/s)	6.0/3.0/1.5	6.0/3.0/1.5
Max Sustained Data Rate, OD Read (MB/s)	190MB/s	220MB/s
Cache, Multisegmented (MB)	256MB	256MB
Rotational Speed (RPM)	5400RPM	7200RPM
Recording Technology	SMR	SMR
Reliability/Data Integrity		
Load/Unload Cycles	600,000	600,000
Nonrecoverable Read Errors per Bits Read, Max	1 per 10E14	1 per 10E14
Power-On Hours (per year)	2,400	2,400
Workload Rate Limit (TB/Year)	55	55
Warranty, Limited (years)	2	2
Power Management		
Startup Power (A)	2.0 A	2.0 A
Operating Mode, Typical (W)	3.7	5.1
Idle Average (W)	2.5 W	3.9 W
Standby Mode/Sleep Mode, Typical (W)	0.25/0.25	0.3/0.3
Voltage Tolerance, Inc. Noise (5V)	±5%	±5%
Voltage Tolerance, Inc. Noise (12V)	±10%	±10%
Environmental/Temperature		
Operating (ambient, min)	0°C	0°C
Operating (drive case, max)	60°C	60°C
Nonoperating (ambient)	-40°C – 70°C	-40°C – 70°C
Halogen Free	Yes	Yes
RoHS Compliance	Yes	Yes
Physical		
Height (mm/in, max)	20.20 mm/0.795 in	20.20 mm/0.795 in
Width (mm/in, max)	101.85 mm/4.010 in	101.85 mm/4.010 in
Depth (mm/in, max)	146.99 mm/5.787 in	146.99 mm/5.787 in
Weight (g/lb, typical)	415 g/0.915 lb	415 g/0.915 lb
Carton Unit Quantity	25	25
Cartons per Pallet/Cartons per Layer	40 / 8	40 / 8

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