BARRACUDA™

SEAGATE

3.5 HDD DATA SHEET

Amazing Versatility. Unmatched Dependability.



Seagate delivers trusted performance and reliability with the Seagate® BarraCuda® 3.5-inch HDD—now available in capacities up to 24TB.



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.

Built on proven reliability and innovation the BarraCuda family has delivered trustworthy storage solutions for the hard drive industry

.**Capacities up to 24TB** 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 6Gb/s interface optimizes burst performance.[1]

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

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Specifications	24TB	20TB	16TB	12TB	8TB
Standard Model Number	ST24000DM001	ST20000DM001	ST16000DM001	ST12000DM003	ST8000DM004
Bytes per Sector	512e	512e	512e	512e	512e
Performance					
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)	190MB/s	190MB/s	190MB/s	190MB/s	190MB/s
Cache, Multisegmented (MB)	512MB	512MB	512MB	512MB	256MB
Rotational Speed (RPM)	7200RPM	7200RPM	7200RPM	7200RPM	5400RPM
Recording Technology	CMR	CMR	CMR	CMR	SMR
Reliability/Data Integrity					
Load/Unload Cycles	600,000	600,000	600,000	600,000	600,000
Nonrecoverable Read Errors per Bits Read, Max	1 sector per 10E14	1 sector per 10E14	1 sector per 10E14	1 sector per 10E14	1 per 10E14
Power-On Hours (per year)	2400	2400	2400	2400	2400
Workload Rate Limit (TB/Year)	120	120	120	120	55
Warranty, Limited (years)	2	2	2	2	2
Power Management					
Startup Power (A)	2.0A	2.0A	2.0A	2.0A	2.0A
Operating Mode, Typical (W)	8.9W	8.9W	8.9W	8.9W	5.3W
Idle Average (W)	6.7W	6.7W	6.7W	6.7W	3.4W
Standby Mode/Sleep Mode, Typical (W)	1.2 W	1.2 W	1.2 W	1.2 W	0.25/0.25
Voltage Tolerance, Inc. Noise (5V)	±5%	±5%	±5%	±5%	±5%
Voltage Tolerance, Inc. Noise (12V)	±10%	±10%	±10%	±10%	±10%
Environmental/Temperature					
Operating (drive reported, min)	10°C	10°C	10°C	10°C	0°C
Operating (drive reported, max)	60°C	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	-40°C – 70°C
Halogen Free	Yes	Yes	Yes	Yes	Yes
RoHS Compliance	Yes	Yes	Yes	Yes	Yes
Physical					
Height (mm/in, max)	26.1mm/1.028in	26.1mm/1.028in	26.1mm/1.028in	26.1mm/1.028in	26.11mm/1.028in
Width (mm/in, max)	101.85mm/4.010in	101.85mm/4.010in	101.85mm/4.010in	101.85mm/4.010in	101.85mm/4.010in
Depth (mm/in, max)	147mm/5.787in	147mm/5.787in	147mm/5.787in	147mm/5.787in	146.99mm/5.787in
Weight (g/lb, typical)	695g/1.532lb	695g/1.532lb	695g/1.532lb	695g/1.532lb	630g/1.389lb
Carton Unit Quantity	20	20	20	20	20
Cartons per Pallet/Cartons per Layer	40 / 8	40 / 8	40 / 8	40 / 8	40 / 8

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Specifications	6TB	4TB	3TB	2TB	
Standard Model Number	ST6000DM003	ST4000DM004	ST3000DM007	ST2000DM005	ST2000DM008
Bytes per Sector	512e	512e	512e	512e	512e
Performance					
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)	185MB/s	190MB/s	185MB/s	190MB/s	220MB/s
Cache, Multisegmented (MB)	256MB	256MB	256MB	256MB	256MB
Rotational Speed (RPM)	5400RPM	5400RPM	5400RPM	5400RPM	7200RPM
Recording Technology	SMR	SMR	SMR	SMR	SMR
Reliability/Data Integrity					
Load/Unload Cycles	600,000	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	1 per 10E14
Power-On Hours (per year)	2400	2400	2400	2400	2400
Workload Rate Limit (TB/Year)	55	55	55	55	55
Warranty, Limited (years)	2	2	2	2	2
Power Management					
Startup Power (A)	2.0A	2.0A	2.0A	2.0A	2.0A
Operating Mode, Typical (W)	5.3W	3.7W	3.7W	3.7W	5.1W
Idle Average (W)	3.4W	2.5W	2.5W	2.5W	3.9W
Standby Mode/Sleep Mode, Typical (W)	0.25/0.25	0.25/0.25	0.25/0.25	0.25/0.25	0.3/0.3
Voltage Tolerance, Inc. Noise (5V)	±5%	±5%	±5%	±5%	±5%
Voltage Tolerance, Inc. Noise (12V)	±10%	±10%	±10%	±10%	±10%
Environmental/Temperature					
Operating (drive reported, min)	0°C	0°C	0°C	0°C	0°C
Operating (drive reported, max)	60°C	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	-40°C – 70°C
Halogen Free	Yes	Yes	Yes	Yes	Yes
RoHS Compliance	Yes	Yes	Yes	Yes	Yes
Physical					
Height (mm/in, max)	26.11mm/1.028in	20.20mm/0.795in	20.20mm/0.795in	20.20mm/0.795in	20.20mm/0.795in
Width (mm/in, max)	101.85mm/4.010in	101.85mm/4.010in	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	146.99mm/5.787in	146.99mm/5.787in
Weight (g/lb, typical)	610g/1.345lb	490g/1.08lb	490g/1.08lb	415g/0.915lb	415g/0.915lb
Carton Unit Quantity	20	25	25	25	25
Cartons per Pallet/Cartons per Layer	40 / 8	40 / 8	40 / 8	40 / 8	40 / 8

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Specifications	1TB
Standard Model Number	ST1000DM014
Bytes per Sector	512e
Performance	
Interface	SATA 6 Gb/s
SATA Transfer Rates Supported (Gb/s)	6.0/3.0/1.5
Max Sustained Data Rate, OD Read (MB/s)	220MB/s
Cache, Multisegmented (MB)	256MB
Rotational Speed (RPM)	7200RPM
Recording Technology	SMR
Reliability/Data Integrity	
Load/Unload Cycles	600,000
Nonrecoverable Read Errors per Bits Read, Max	1 per 10E14
Power-On Hours (per year)	2400
Workload Rate Limit (TB/Year)	55
Warranty, Limited (years)	2
Power Management	
Startup Power (A)	2.0A
Operating Mode, Typical (W)	5.1W
Idle Average (W)	3.9W
Standby Mode/Sleep Mode, Typical (W)	0.3/0.3
Voltage Tolerance, Inc. Noise (5V)	±5%
Voltage Tolerance, Inc. Noise (12V)	±10%
Environmental/Temperature	
Operating (drive reported, min)	0°C
Operating (drive reported, max)	60°C
Nonoperating (ambient)	-40°C – 70°C
Halogen Free	Yes
RoHS Compliance	Yes
Physical	
Height (mm/in, max)	20.20mm/0.795in
Width (mm/in, max)	101.85mm/4.010in
Depth (mm/in, max)	146.99mm/5.787in
Weight (g/lb, typical)	415g/0.915lb
Carton Unit Quantity	25
Cartons per Pallet/Cartons per Layer	40 / 8

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