

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.



Specifications	24TB	20TB	16TB
Standard Model Number	ST24000DM001	ST20000DM001	ST16000DM001
Bytes per Sector	512e	512e	512e
Performance			
Interface	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
Max Sustained Data Rate, OD Read (MB/s)	190MB/s	190MB/s	190MB/s
Cache, Multisegmented (MB)	512MB	512MB	512MB
Rotational Speed (RPM)	7200RPM	7200RPM	7200RPM
Recording Technology	CMR	CMR	CMR
Reliability/Data Integrity			
Load/Unload Cycles	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
Power-On Hours (per year)	2400	2400	2400
Workload Rate Limit (TB/Year)	120	120	120
Warranty, Limited (years)	2	2	2
Power Management			
Startup Power (A)	2.0A	2.0A	2.0A
Operating Mode, Typical (W)	8.9W	8.9W	8.9W
Idle Average (W)	6.7W	6.7W	6.7W
Standby Mode/Sleep Mode, Typical (W)	1.2 W	1.2 W	1.2 W
Voltage Tolerance, Inc. Noise (5V)	±5%	±5%	±5%
Voltage Tolerance, Inc. Noise (12V)	±10%	±10%	±10%
Environmental/Temperature			
Operating (drive reported, min)	10°C	10°C	10°C
Operating (drive reported, max)	60°C	60°C	60°C
Nonoperating (ambient)	-40°C – 70°C	-40°C – 70°C	-40°C – 70°C
Halogen Free	Yes	Yes	Yes
RoHS Compliance	Yes	Yes	Yes
Physical			
Height (mm/in, max)	26.11mm/1.028in	26.11mm/1.028in	26.11mm/1.028in
Width (mm/in, max)	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
Weight (g/lb, typical)	695g/1.532lb	695g/1.532lb	695g/1.532lb
Carton Unit Quantity	20	20	20
Cartons per Pallet/Cartons per Layer	40 / 8	40 / 8	40 / 8

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