Maxtor®

DiamondMax 21

Reliability, performance and leading mainstream features

500, 320, 250, 160 and 80 GB • 7200 RPM • ATA/100 and SATA 3Gb/s

Key Advantages

Maxtor® DiamondMax® 21 hard drives continue the Maxtor tradition of delivering well-engineered, reliable storage solutions. The DiamondMax family of hard drives provides a value solution for applications that require a balance of the most popular capacities, basic performance and reliability.

DiamondMax 21 drives are ideal for entry and mainstream, home and office PC applications and an excellent solution for integrators and system builders. DiamondMax 21 drives are widely available from Maxtor Authorized Distributors.

DiamondMax 21 drives

DiamondMax 21 drives are an excellent value for solid performance and popular capacities for high-volume entry and mainstream computing applications. DiamondMax 21 drives are available with larger capacities for mainstream systems with more advanced features for increased storage needs.

Seagate 5-Year Warranty

DiamondMax 21

Reliability, performance and leading mainstream features

Maxtor®

Designed for

- Home desktop PCs
- Office and business PCs
- General, non-PC, ATA storage applications

Seagate Global Customer Support

- Get presales and technical support at support.seagate.com.
- Visit our knowledge base for answers to common support questions.
- Find documentation for current and legacy drives.
- Utilize our online troubleshooting and diagnostic tools.
- Download DiscWizard™ to help migrate data from an older drive.
- Seagate also offers multi-lingual phone, email and chat support.
- Seagate Design Service Centers (DSC) help companies transform innovative ideas into viable products.

Specifications	500 GB[1]	320 GB[1]	250 GB[1]	160 GB[1]	80 GB[1]
Model Number	STM3500630AS	STM3320820AS STM3320820A	STM3250320AS STM3250820A	STM3160815AS STM3160215AS STM3160215A	STM380815AS STM380215AS STM380215A
Performance					
Transfer Rate (MB/s) SATA 3Gb/s PATA	300 —	300 100	300 100	300 100	300 100
Cache, Multisegmented (MB)	16	8	8	8, 2	8, 2
Average Latency (ms)	4.17	4.17	4.17	4.17	4.17
Spin Speed	7200	7200	7200	7200	7200
Configuration/Organization					
Bytes per Sector	512	512	512	512	512
Reliability/Data Integrity					
Contact Start-Stops	50,000	50,000	50,000	50,000	50,000
Nonrecoverable Read Errors per Bits Read	1 per 10E14	1 per 10E14	1 per 10E14	1 per 10E14	1 per 10E14
Annualized Failure Rate (AFR)	0.34%	0.34%	0.34%	0.34%	0.34%
Limited Warranty (years)	3	3	3	3	3
Power Management					
+12V Peak (A ±10%)	2.8	2.8	2.8	2.8	2.8
Seek, Average (W)	12.4	12.4	12.4	12.4	12.4
Operating, Average (W)	12.8	12.8	12.8	12.8	12.8
Idle, Average (W)	7.2	7.2	7.2	7.2	7.2
Environmental					
Temperature Operating (°C) Nonoperating (°C)	0 to 60 −40 to 70	0 to 60 −40 to 70	0 to 60 −40 to 70	0 to 60 −40 to 70	0 to 60 −40 to 70
Shock Operating, 2 ms (Gs) Nonoperating, 2 ms (Gs)	63 350	63 350	63 350	63 350	63 350
Acoustics (bels—sound power) Idle Seek	2.8 3.7	2.5 3.0	2.5 3.0	2.7 2.9	2.7 2.9
Physical					
Height, SATA (in/mm) Height, PATA (in/mm)	1.028/26.1 —	1.028/26.1 1.028/26.1	0.79/20.99 1.028/26.1	0.79/20.99 0.79/20.99	0.79/20.99 0.79/20.99
Width (in/mm)	4.00/101.6	4.00/101.6	4.00/101.6	4.00/101.6	4.00/101.6
Depth (in/mm)	5.87/146.99	5.87/146.99	5.87/146.99	5.87/146.99	5.87/146.99
Weight (lb/g)	1.59/720	1.4/635	0.838/380	0.838/380	0.838/380

*One gigabyte, or GB, equals one billion bytes when referring to hard drives capacity.

www.seagate.com

1-800-SEAGATE (1-800-732-4283)