Maxtor®

DiamondMax® 10

ATA HARD DRIVE

80GB   120GB   160GB   200GB   250GB   300GB

HIGHLIGHTS

- 3.5-inch 7200 RPM Serial ATA hard drive

- Capacities up to 300GB

- Leading performance and reliability for desktop applications

FEATURES

- Choice of parallel or serial interfaces

- Second-generation Serial ATA with 1.5Gb/sec interface speed

- Native command queuing

- Ultra ATA data transfer speeds up to 133MB/sec

- 8MB cache buffer for 80GB, 120GB, 160GB and 200GB drive

- 16MB cache buffer for 250GB and 300GB drive

- Fluid dynamic bearing motor for quiet operation

- Improved reliability with:
  –Shock Protection System™
  –Data Protection System™

Enhanced reliability and great performance

Maxtor creates a new standard with the introduction of the DiamondMax 10 drive. Its high capacity, enhanced reliability and great performance combine to make this the perfect drive for home or office desktop users.

Interface choices
DiamondMax 10 gives users the choice of the available data transfer rates and functionality in either a serial or parallel interface.

Serial ATA
The DiamondMax 10 drive incorporates the latest features of the Serial ATA interface, with data transfer rates and functions to accelerate system performance.

Parallel ATA*
DiamondMax 10 drive is also available with the industry's fastest version of the parallel ATA interface. The Maxtor-developed Ultra ATA/133 interface maximizes performance potential by supporting data transfer rate up to 133MB/sec.

High Performance
DiamondMax 10 SATA drive supports native command queuing (NCQ), which intelligently reorders read and write commands to improve performance.

Using larger buffers (8MB on 80GB to 200GB, 16MB on 250GB and 300GB), the DiamondMax drive delivers industry-leading benchmarks and blazing performance.

Delivering reliability
The DiamondMax 10 drives deliver high reliability and data integrity using the Maxtor-developed Shock Protection System™ and Data Protection System™ to give the drive enhanced protection against operating and non-operating shock.

*Note Serial ATA features like native command queuing are not available on drives with a parallel interface

ORDER INFORMATION

Capacity		80GB	120GB	160GB	200GB	250GB	300GB
Model	Serial ATA/150 8 MB buffer	6B080M0	6B120M0	6B160M0	6B200M0	—	—
Model	Serial ATA/150 16MB buffer	—	—	—	—	6B250S0	6B300S0
Model	ATA/133 8MB buffer	—	—	6B160P0	6B200P0	—	—
Model	ATA/133 16MB buffer			—	—	6B250R0	6B300R0

SPECIFICATIONS

Performance Specifications

Rotational Speed	7200 RPM
Buffer Size	
80GB, 120GB, 160GB, 200GB	8MB
250GB, 300GB	16MB
External Data Transfer Rate(MB/sec)	
Serial ATA	150
Parallel ATA	133
Average Seek (ms)	<9.0
Average Latency (ms)	4.17

Reliability Specifications

Start/Stop Cycles (min)	>50,000
Component Design Life (min)	5 years
Annualized Return Rate (ARR)	<1%

Environmental Limits

Temperature

Operating (°C)	0 to 60
Non-operating (°C)	-40 to 71

Shock

Operating Mechanical Shock 2ms (G)	60
Non-operating Mechanical Shock 2ms (G)	300

Physical Dimensions

Width (max mm)	101.6
Length (typical mm)	147
Height (max mm)	26.1
Weight max (LB)	1.39

SPS™   SMART SYSTEM COMPLIANT   SERIAL ATA 1.5Gb/s   ULTRA ATA/133

For support or information, call us at 1-800-2Maxtor or visit us at www.maxtor.com

All Maxtor products are backed by our leading service and support staff.

To speak with a Maxtor product support representative in the U.S. and Canada, call 1-800-2MAXTOR, Mon.-Fri. from 7 a.m. to 4 p.m. (PST).

In Europe, call +353 1 204 1111 Mon.-Thur. from 8:30 a.m. to 5 p.m. (GMT) and Fri. 8:30 a.m. to 4 p.m. (GMT).

In Australia, call +61 2 9369 3662. In Japan, call 005316-53616, and in Singapore, call 65-6852-0220 or 1-800-481-6788.

Maxtor® *What drives you.™*