

## 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™
- RoHS compliant version available

#### 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.

#### RoHS Compliant

Maxtor supports the EU directive for Restriction of Hazardous Substances (RoHS)<sup>†</sup>. RoHS compliant versions of DiamondMax 10 are available.

#### 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

<sup>†</sup>Directive 2002/95/EC of the European Parliament and of the Council of 27 January, 2003.

## ORDER INFORMATION

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

## RoHS Compliant Version

<b>Model</b>	Serial ATA/150 8 MB buffer	<b>6L080M0</b>	<b>6L120M0</b>	<b>6L160M0</b>	<b>6L200M0</b>	—	—
<b>Model</b>	Serial ATA/150 16MB buffer	—	—	—	—	<b>6L250S0</b>	<b>6L300S0</b>
<b>Model</b>	ATA/133 8MB buffer	<b>6L080P0</b>	<b>6L120P0</b>	<b>6L160P0</b>	<b>6L200P0</b>	—	—
<b>Model</b>	ATA/133 16MB buffer	—	—	—	—	<b>6L250R0</b>	<b>6L300R0</b>

## 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%

### Acoustics

Idle (typical, 1 disk, 3 disk)	2.5 / 2.9 bels
Quiet Seek (typical, 1 disk, 3 disk)	2.6 / 3.0 bels
Normal Seek (typical, 1 disk, 3 disk)	3.2 / 3.8 bels

### 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



## For support or information, call us at 1-800-2Maxtor or visit us at [www.maxtor.com](http://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).

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

For purposes of measuring drive storage capacity, a gigabyte (GB) means 1,000,000,000 bytes. Total accessible capacity varies depending on operating environment. Seek times are at nominal conditions and include settling. Specifications subject to change without notice.

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