

# DiamondMax® 10

## ATA HARD DRIVE

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

### HIGHLIGHTS

- 3.5-inch 7200 RPM 3.0Gb Serial ATA hard drive
- Capacities up to 300GB
- Performance and reliability for desktop applications

### FEATURES

- Choice of parallel or serial interfaces
- Latest Serial ATA interface with 3.0Gb/s data transfer 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

### 3.0Gb SATA II, 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

Offers the choice of parallel or serial interface including the latest 3.0Gb/s SATA II features and performance.

#### 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, 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 10 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>Non RoHS Compliant Version</b>						
<b>Model</b> Serial ATA (1.5Gb/s) 8 MB buffer	<b>6B080M0</b>	<b>6B120M0</b>	<b>6B160M0</b>	<b>6B200M0</b>	—	—
<b>Model</b> Serial ATA (1.5Gb/s) 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 (1.5Gb/s) 8 MB buffer	<b>6L080M0</b>	<b>6L120M0</b>	<b>6L160M0</b>	<b>6L200M0</b>	—	—
<b>Model</b> Serial ATA (1.5Gb/s) 16MB buffer	—	—	—	—	<b>6L250S0</b>	<b>6L300S0</b>
<b>Model</b> Serial ATA (3.0Gb/s) 8 MB buffer	<b>6V080E0</b>	—	<b>6V160E0</b>	<b>6V200E0</b>	—	—
<b>Model</b> Serial ATA (3.0Gb/s) 16MB buffer	—	—	—	—	<b>6V250F0</b>	<b>6V300F0</b>
<b>Model</b> ATA/133 2MB buffer	<b>6L080L0</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

Rotational Speed	7200 RPM
Buffer Size	
80GB, 120GB, 160GB, 200GB	8MB
250GB, 300GB	16MB
External Data Transfer Rate	
Serial ATA (Gb/s)	1.5 or 3.0
Parallel ATA (MB/s)	133
Average Seek (ms)	<9.0
Average Latency (ms)	4.17

### Reliability

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)

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- Maxtor's commitment to total customer satisfaction
- Product support representatives available Monday-Friday

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In the U.S. and Canada, call 1-800-2MAXTOR, Mon.–Fri. from 8:00 a.m. to 5 p.m. (MST).

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In Australia, call 800-124-328

In Asia, call +65 6 481 6788

Mon.–Fri. from 7:00 a.m. to 3:00 p.m. (Singapore GMT +7)

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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