Maxtor®

DiamondMax® 10

ATA HARD DRIVE

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

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)†. 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.

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

ORDER INFORMATION

Capacity	80GB	120GB	160GB	200GB	250GB	300GB
Non RoHS Compliant Version						
Model Serial ATA (1.5Gb/s) 8 MB buffer	6B080M0	6B120M0	6B160M0	6B200M0	—	—
Model Serial ATA (1.5Gb/s) 16MB buffer	—	—	—	—	6B250S0	6B300S0
Model ATA/133 8MB buffer	—	—	6B160P0	6B200P0	—	—
Model ATA/133 16MB buffer	—	—	—	—	6B250R0	6B300R0
RoHS Compliant Version 🌿						
Model Serial ATA (1.5Gb/s) 8 MB buffer	6L080M0	6L120M0	6L160M0	6L200M0	—	—
Model Serial ATA (1.5Gb/s) 16MB buffer	—	—	—	—	6L250S0	6L300S0
Model Serial ATA (3.0Gb/s) 8 MB buffer	6V080E0	—	6V160E0	6V200E0	—	—
Model Serial ATA (3.0Gb/s) 16MB buffer	—	—	—	—	6V250F0	6V300F0
Model ATA/133 2MB buffer	6L080L0	—	—	—	—	—
Model ATA/133 8MB buffer	6L080P0	6L120P0	6L160P0	6L200P0	—	—
Model ATA/133 16MB buffer	—	—	—	—	6L250R0	6L300R0

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

All Maxtor products are backed by our leading service and support staff. **RoHS Compliant** Service includes:

• 24-hour on-line troubleshooting tools and email
• Maxtor's commitment to total customer satisfaction
• Product support representatives available Monday-Friday

To speak with a Maxtor product support representative:

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

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 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)

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