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DiamondMax® Plus 9

ATA HARD DRIVE

60GB 80GB 120GB 160GB 200GB 250GB

PERFORMANCE

HIGHLIGHTS

- 3.5-inch 7200 RPM performance hard drives
- Capacities up to 250GB
- Designed for performance PCs, PC gaming systems, and digital video

FEATURES

- Fast ATA/Enhanced IDE-compatible
- Ultra ATA data transfer speeds up to 133MB/sec
- Serial ATA option with transfer speeds up to 150MB/sec
- 100% FDB (fluid dynamic bearing) motors
- 2MB and 8MB cache buffers
- Shock Protection System™
- Data Protection System™

Superior Performance Combined with Industry-leading Capacity

The DiamondMax® Plus 9 hard disk drive is designed to exceed previous standards for desktop performance. DiamondMax Plus 9 drives are offered with industry-standard capacity points up to 250GB. By delivering a performance hard drive using a highly leveraged design with state-of-the-art quality and reliability, Maxtor demonstrates technology leadership with DiamondMax Plus 9 drives.

Maxtor-developed Ultra ATA interface and Serial ATA interface

The Maxtor-developed Ultra ATA interface has data transfer rates up to 133 MB/sec. DiamondMax Plus 9 drives will also be available with a serial ATA interface. With either Ultra ATA/133 or the increased speed and capabilities of Serial ATA/150, users will have a choice of the fastest data transfer rates and interface functionality available.

Fluid Dynamic Bearing (FDB) Motors

All DiamondMax Plus 9 drives are equipped with FDB motors. This technology allows the drive to operate with very low sound output for performance users who are concerned about acoustics.

Delivering Reliability

DiamondMax Plus 9 drives deliver high reliability and data integrity using the Maxtor-developed Shock Protection System (SPS) and Data Protection System (DPS). SPS and DPS give the drive enhanced protection against operating and non-operating shock to eliminate costly drive returns. When your application demands reliability, performance and capacity, DiamondMax Plus 9 drives are the ideal choice.



Capacity		60GB	80GB	120GB	160GB	200GB	250GB
Model	ATA/133 2MB buffer	6Y060L0	6Y080L0	6Y120L0	6Y160L0	—	—
	ATA/133 8MB buffer	—	6Y080P0	6Y120P0	6Y160P0	6Y200P0	6Y250P0
	SATA/150 8MB buffer	6Y060M0	6Y080M0	6Y120M0	6Y160M0	6Y200M0	6Y250M0

Note: L-FDB motor

Performance Specifications

Rotational Speed	7200 RPM
Buffer Size	2MB and 8MB cache
External Transfer Rate(MB/sec)	ATA/133 133 SATA 150
Average Seek (ms)	≤9.3
Average Latency (ms)	4.2

Disk Drive Configuration

Bytes per Sector/Block	512
Logical CHS	16,383/16/63

Reliability Specifications

Start/Stop Cycles (min)	>50,000
Component Design Line (min)	5 years
Data Errors (non-recoverable)	<1 per 10E 15 bits read
Annualized Return Rate (ARR)	<1%

Power Requirements

Mode	5V	12V
Seek (mA)	858	662
Idle (mA)	668	334
Standby (mA)	90	37

Environmental Limits

Acoustics FDB motor	
Idle (sound power: bel)	2.7
Seek (sound power: bel)	3.5
Temperature	
Operating (°C)	5 to 55
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 max (mm)	147
Height max (mm)	26.1
Weight max (LB/g)	1.27/630

SPS™ S·M·A·R·T 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.

Service includes:

- Advance replacement in 2 business days
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To speak with a Maxtor product support representative in the U.S. and Canada, call 1-800-2MAXTOR, Mon.-Fri. from 5 a.m. to 5 p.m (PST).

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Specifications subject to change without notice. GB means 1 billion bytes. Total accessible capacity varies depending on operating environment. Seek times and acoustics are average values.

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