




DiamondMax® **60**

 Our new 5,400 RPM DiamondMax™ 60 series is the perfect choice for consumers working with massive digital audio and video files. With data speeds closely matching those of 7,200 RPM products, the DiamondMax 60 delivers outstanding data transfer performance and has capacities up to 60 GB. They have an average seek time of sub-9.0 ms, a fast 2 MB 120 MHz SDRAM cache buffer and an UltraDMA 66 interface to ensure maximum data throughput. These capacity leaders also employ the new Maxtor Silent Store™ technology for superior quiet acoustic performance and Maxtor Adaptive ATA Control™ for unsurpassed interface data integrity. No matter how extreme your application, the new DiamondMax 60 has the capacity, reliability and advanced performance you demand.

5,400 RPM

**3.5-INCH
HIGH-
PERFORMANCE
HARD DRIVES**

Capacities up to 60 GB

*Designed for High-end
Desktops and Workstations*

FEATURES:

*Fast ATA/Enhanced
IDE compatible*

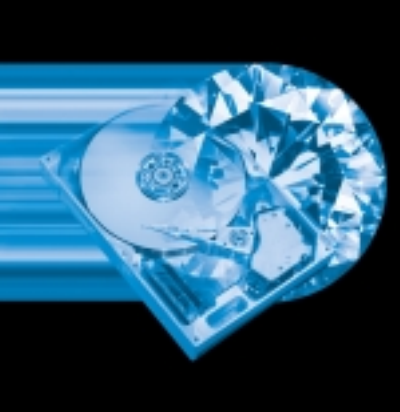
*Digital Signal Processor
(DSP)-Based Architecture*

*UltraDMA 66
Data Transfer Rate*

*2 MB SDRAM
Cache Buffer*

<9.0 ms Seek Time

*No Quibble Service®
and Support*



DiamondMax[®] 60

Maxtor's DiamondMax 60 series delivers outstanding performance including:

- 15.3 GB of storage per disk
- Fast data transfer rates (up to 66 MB/sec)
- 5,400 RPM spin speed
- < 9.0 ms average seek
- 2 MB cache buffer
- 3-year warranty



**DUAL
WAVE
PROCESSOR**

ShockBlock

MaxSafe

**S · M · A · R · T
S · Y · S · T · E · M
C · O · M · P · L · I · A · N · T**

All Maxtor products are backed by the *No Quibble Service*[®] policy, the benchmark for service and support in the industry. *No Quibble Service* includes:

- **Advance replacement in 2 business days**
- **MaxFax[™] 24-hour automated technical support**
- **Maxtor's commitment to total customer satisfaction**
- **Phone technicians available Monday–Friday**

For more information or to talk to a customer support representative, call: (U.S. and Canada) 800-2MAXTOR. Available 5 A.M.–5 P.M. (PT) Mon–Fri; (Europe) +353 1 204 1111. Available 9:30 A.M.–6 P.M. (CET) Mon–Thurs and 9:30 A.M.–5 P.M. (CET) Fri; (Asia/Pacific) 800-481-6788. Available 8 A.M.–5:30 P.M. (GMT+8) Mon–Fri; or visit our home page on the Internet at <http://www.maxtor.com>.

Specifications subject to change without notice. Maxtor defines 1 megabyte as 10⁶ or 1 million bytes and 1 gigabyte as 10⁹ or 1 billion bytes. ¹Acoustics measured at 5k ft. ²Without non-recoverable errors. Adaptive ATA Control[™], DualWave[™], MaxFax[™], MaxSafe[™], Silent Store[™] and ShockBlock[™] are trademarks of Maxtor. DiamondMax[®], Maxtor[®] and No Quibble Service[®] are registered trademarks of Maxtor Corporation. Copyright © 2000 Maxtor Corporation. Printed in the U.S.A. 3/00 Stock #DM60/4710 Rev. A

WinLIST
Winmag.com 2000

Category Leader
DiamondMax Plus 40 (40.9 GB)
Winmag.com, January 2000



Safe Buy
DiamondMax Plus 40 (40.9 GB)
Storage Review.com, December 1999



Hard Drive Best Buy
DiamondMax Plus 5120 (20.4 GB)
PC World Magazine, October 1999

WinLIST
Winmag.com 2000

Category Leader
DiamondMax Plus 6800 (27.3 GB)
Winmag.com, October 1999

MODEL	96147U8	94610U6
CAPACITY	61,470 MB	46,100 MB
HEADS	8	6
DISKS	4	3

PERFORMANCE SPECIFICATIONS

Seek Times (typical)	
Track to Track	1 ms
Average	< 9.0 ms
Full Stroke	< 20 ms
Average Latency	5.55 ms
Rotation Speed (± 0.1%)	5,400 RPM
Controller Overhead	< 0.3 ms
Start Time (0 - drive ready)	8.5 sec typical

DATA TRANSFER RATES

To/From Interface	up to 66 MB/sec
To/From Media	up to 40.8 MB/sec

DRIVE CONFIGURATION

Integrated Controller	ATA-5/UDMA 66
Buffer Size	2 MB
Buffer Type	SDRAM
Data Zones per Surface	16
Bytes per Sector/Block	512

RELIABILITY SPECIFICATIONS

Start/Stop Cycles	50,000 (minimum)
Component Design Life	5 years (minimum)
Data Errors (non-recoverable)	< 1 per 10 ¹⁴ bits read
Annual Return Rate (ARR)	< 1%

POWER REQUIREMENTS (TYPICAL)

MODE	12V±10%	5V±5%	POWER
Spin-up (peak)	1800 mA	600 mA	
Seek	650 mA	550 mA	10.6 W
Read/Write	250 mA	550 mA	5.8 W
Idle	250 mA	500 mA	5.5 W
Standby	20 mA	200 mA	1.3 W

ENVIRONMENTAL LIMITS

ACOUSTICS

Idle mode	3.1 bel (average sound power) ¹
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TEMPERATURE

Operating	5° C - 55° C
Non-operating, Storage	-40° C - 71° C

RELATIVE HUMIDITY (NON-CONDENSING)

Operating, Non-operating, Storage	5% - 95%
Maximum Wet Bulb, Operating	30° C

ALTITUDE (RELATIVE TO SEA LEVEL)

Operating	-200 - 10,000 feet
Non-operating	-200 - 40,000 feet

VIBRATION

Operating, random, no errors ²	10 - 45 Hz at 0.004 G ² /Hz
	48 - 62 Hz at 0.008 G ² /Hz
	65 - 300 Hz at 0.004 G ² /Hz
	301 - 500 Hz at 0.0006 G ² /Hz
Non-operating, random	10 - 2,000 Hz at 2.15 Grms, no damage
Operating, swept sine (.25 octave per minute)	
10 - 300 Hz	1.0 G peak amplitude

SHOCK

Operating Mechanical Shock	30 Gs, 2 ms, no errors ²
Non-operating Mechanical Shock	250 Gs, 2 ms, no damage ²

PHYSICAL DIMENSIONS (MAXIMUM)

Height	1.02 in	2.61 cm
Length	5.78 in	14.70 cm
Width	4.00 in	10.16 cm
Weight	1.30 lbs	0.59 kg

Maxtor[®]