




DiamondMax™ 40

 The new DiamondMax™ 40 series, with a top-end capacity of 40 GB, features an average seek time of sub-9.0 ms, a fast 2 MB 100 MHz SDRAM cache buffer and UltraDMA 66 interface to ensure maximum data throughput. These capacity leaders employ Maxtor's unique DualWave™ multi-processor controller for a 10x boost in host command processing speed. As a result, the DiamondMax 40 series is an ideal choice for consumers working with large files, including audio and video applications. As with the existing DiamondMax line, the new series include enhancements to Maxtor's innovative ShockBlock™ and MaxSafe™ feature set for added reliability and superior protection from shock and damage. No matter how large your application, the new DiamondMax™ 40 series has the performance and capacity you need.

5,400 RPM

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

Capacities up to 40 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*



Win 100 Hardware
DiamondMax 4320 (17.2 GB)
Windows Magazine, June 1999



CRN Test Center Recommended
DiamondMax 6800 (27.2 GB)
Computer Reseller News, April 1999



Recommended List
DiamondMax Plus 5120 (20.4 GB)
Windows Magazine, August 1999



Editor's Choice Award
DiamondMax Plus 2500 (10.0 GB)
DiamondMax 2880 (11.5 GB)
Storage Review, Summer 1998

DiamondMax 40

Maxtor's DiamondMax 40 series delivers outstanding performance including:

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



All Maxtor products are backed by the *No Quibble*® service policy, the benchmark for service and support in the industry. *No Quibble* 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 homepage 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. Acoustic measurement at 5,200 feet altitude. DiamondMax™, DualWave™, MaxFax™, MaxSafe™ and ShockBlock™ are trademarks of Maxtor. No Quibble is a registered trademark of Maxtor. Printed in the U.S.A. Copyright © 1999 Maxtor Corporation. 8/99 Stock #DM36/40 Rev. 4403

MODEL	94098U8	93652U8	93073U6	92739U6	92049U4	91826U4	91369U3	91024U2
SERIES	DM 40	DM 36	DM 40	DM 36	DM 40	DM 36	DM 36	DM 40
CAPACITY	40,980 MB	36,529 MB	30,735 MB	27,396 MB	20,490 MB	18,264 MB	13,698 MB	10,245 MB
HEADS	8	8	6	6	4	4	3	2
DISKS	4	4	3	3	2	2	2	1

PERFORMANCE SPECIFICATIONS

Seek Times (typical)	
Track to Track	1 ms
Average	< 9.0 ms
Maximum	< 20 ms
Average Latency	5.55 ms
Rotation Speed (± 0.1%)	5,400 RPM
Controller Overhead	< 0.3 ms
Start Time (0 - drive ready)	7.3 sec typical

DATA TRANSFER RATES

To/From Interface	up to 66.7 MB/sec
To/From Media on DM 40 Series	up to 36.9 MB/sec
To/From Media on DM 36 Series	up to 34.2 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)	2100 mA	275 mA	
Seek	740 mA	420 mA	11.0 W
Read/Write	295 mA	440 mA	5.7 W
Idle	230 mA	380 mA	4.7 W
Standby	20 mA	220 mA	1.3 W

ENVIRONMENTAL LIMITS

ACOUSTICS

Idle mode	3.1 bel (average sound power)
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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	30° C

ALTITUDE (RELATIVE TO SEA LEVEL)

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

VIBRATION**

Operating, random, no errors	10 - 45 Hz at 0.004 G2/Hz
	48 - 62 Hz at 0.008 G2/Hz
	65 - 300 Hz at 0.004 G2/Hz
	301 - 500 Hz at 0.0006 G2/Hz

Non-operating, random	10 - 2,000 Hz at 4.1 Grms, no damage
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Operating, swept sine (1 octave per minute)

5 - 20 Hz	0.049" double amplitude
21 - 300 Hz	1.0 G peak amplitude

SHOCK**

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

**Without non-recoverable errors.

PHYSICAL DIMENSIONS

Height	1.02 in	2.59 cm
Length	5.78 in	14.67 cm
Width	4.00 in	10.20 cm
Weight	1.30 lbs	0.59 kg

