

# MAXTOR

**Diamond  
Max™**  
**3400**

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

*13.6 – 3.4 GB*

*Designed for  
Desktop Systems*

**FEATURES:**

*Fast ATA-4/Enhanced  
IDE compatible*

*Digital Signal Processor  
(DSP)-Based Architecture*

*33 MB/sec  
UltraDMA/Mode 2  
Data Transfer Rate*

*9.0 ms Seek Time*

*S.M.A.R.T. System  
Compliant*

*No Quibble®  
Service and Support*



Introducing the DiamondMax™ 3400 from Maxtor. Our newest addition to the DiamondMax series, the 3400 packs 3.4 GB on a single disk — giving you the room you need for all your storage requirements. Fast data transfer rates and a 9.0 ms seek time round out this performance-rich desktop hard drive. Best of all, every Maxtor drive is backed by unsurpassed service and support. When only the best will do, turn to DiamondMax 3400 from Maxtor.



**Maxtor®**

# DiamondMax™

## 3400



**Maxtor's DiamondMax 3400 series delivers outstanding performance including:**

- 5,400 RPM spin speed
- 3.4 GB of storage per disk
- 9.0 ms average seek
- 256 KB cache buffer
- Fast data transfer rates (up to 33 MB/sec)
- 3-year warranty



MODEL	91360D8	91020D6	90680D4	90340D2
CAPACITY	13,600 MB	10,200 MB	6,800 MB	3,400 MB
HEADS	8	6	4	2
DISKS	4	3	2	1

### PERFORMANCE SPECIFICATIONS

Seek Times (typical)	
Track to Track	0.9 ms
Average	9.0 ms
Maximum	< 20 ms
Average Latency	5.56 ms
Rotation Speed ( $\pm 0.1\%$ )	5,400 RPM
Controller Overhead	< 0.5 ms
Start Time (0 - drive ready)	< 7.5 sec

### DATA TRANSFER RATE

To/From Interface	up to 33.0 MB/sec
To/From Media	up to 18.6 MB/sec

### DRIVE CONFIGURATION

Integrated Controller	ATA-4
Sectors per Track	269-320
Tracks per Surface (cylinders)	11,530
Flux Density	166-237 kfc
Track Density	11,400 tpi
Recording Density	156-223 kbp
Data Zones per Surface	16
Bytes per Block	512
Buffer Size	256 KB
Buffer Type	SDRAM

### RELIABILITY SPECIFICATIONS

Start/Stop Cycles	50,000 (minimum)
Component Design Life	5 years (minimum)
Data Errors (non-recoverable)	< 1 per $10^{14}$ bits read

### POWER REQUIREMENTS (AVERAGE)

MODE	12V $\pm 5\%$	5V $\pm 5\%$	POWER
Spin-up	1600 mA	200 mA	20.2 W
Seek	650 mA	340 mA	9.6 W
Read/Write	250 mA	350 mA	4.8 W
Idle	250 mA	280 mA	4.4 W
Standby	8 mA	160 mA	0.9 W

### ENVIRONMENTAL LIMITS

#### TEMPERATURE

Operating	5° C to 55° C
Non-operating/Storage	-40° C to 71° C

#### RELATIVE HUMIDITY (NON-CONDENSING)

Operating, Non-operating/Storage	5% to 95%
Maximum Wet Bulb	27° C

#### ALTITUDE (RELATIVE TO SEA LEVEL)

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

#### SHOCK\*

Operating Mechanical Shock	20 Gs
	2 ms, no errors
Non-operating Mechanical Shock	200 Gs
	2 ms, no damage

#### ACOUSTICS

Idle mode	< 36 dBA (average)
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#### VIBRATION\*

Operating, random	10 - 300 Hz at 0.004 G <sup>2</sup> /Hz
(no errors)	301 - 500 Hz at 0.0006 G <sup>2</sup> /Hz
Non-operating, random	10 - 2,000 Hz at 2.05 Grms
(no damage)	

Operating, swept sine (1 octave/minute)

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

\* Without non-recoverable errors.

### PHYSICAL DIMENSIONS

Height	1.02 in	2.59 cm
Length	5.77 in	14.66 cm
Width	4.02 in	10.21 cm
Weight	1.30 lbs	0.59 kg

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 service representative, call: (U.S. and Canada) 800-2MAXTOR, press 2. Available 6 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  $10^6$  or 1 million bytes and 1 gigabyte as  $10^9$  or 1 billion bytes. Printed in the U.S.A. 5/98. DiamondMax™, Formula 4™ and MaxFax™ are trademarks of Maxtor. No Quibble is a registered trademark of Maxtor. Copyright © 1998 Maxtor Corporation. 5/98 Stock #DM3400 Rev. 895

