


**Diamond  
Max™**  
plus **6800**



 Try the new DiamondMax™ Plus 6800 from Maxtor and see the system performance improvement a hard drive can make. Available in capacities up to 27.3 GB, this 7,200 RPM performance leader employs Maxtor's unique DualWave™ multi-processor controller for a 10x boost in command speed. Plus a fast 2 MB 100 MHz SDRAM cache buffer and UltraDMA 66 interface to enhance data throughput. Also featured is Maxtor's enhanced ShockBlock™ design, which provides superior protection from damage during shipping and installation. Whether your application is technical, multimedia, or Internet, the DiamondMax Plus 6800 will deliver system performance improvements you can feel.

**Maxtor®**

**7,200 RPM**

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

27.3 – 6.8 GB

*Designed for High-end  
Desktop and Server Systems*

**FEATURES:**

*Fast ATA-4/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, March 1999



**CRN Test Center Recommended**  
DiamondMax 4320 (17.2 GB)  
Computer Reseller News, Fall 1998



**1998 World Class Award**  
Best Hard Drive:  
DiamondMax 2160 (8.4 GB)  
PC World, July 1998



**Editor's Choice Award**  
Best Hard Drive:  
DiamondMax Plus 2500 (10.0 GB)  
DiamondMax 2880 (11.5 GB)  
Storage Review, Summer 1998

**Maxtor's DiamondMax Plus 6800 series delivers outstanding performance including:**

- 7,200 RPM spin speed
- 6.8 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



MODEL	92732U8	92049U6	91366U4	91024U3	90683U2
CAPACITY	27,325 MB	20,493 MB	13,662 MB	10,246 MB	6,831 MB
HEADS	8	6	4	3	2
DISKS	4	3	2	2	1

**PERFORMANCE SPECIFICATIONS**

Seek Times (typical)	
Track to Track	1 ms
Average	< 9.0 ms
Maximum	< 20 ms
Average Latency	4.18 ms
Rotation Speed (± 0.1%)	7,200 RPM
Controller Overhead	< 0.3 ms
Start Time (0 - drive ready)	7.3 sec typical

**DATA TRANSFER RATE**

To/From Interface	up to 66.7 MB/sec
To/From Media	up to 33.7 MB/sec

**DRIVE CONFIGURATION**

Integrated Controller	ATA-4/UDMA 66
Buffer Size	2 MB
Buffer Type	SDRAM
Sectors per Track	266-462
Tracks per Surface (cylinders)	17,549
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 <sup>14</sup> bits read

**POWER REQUIREMENTS (TYPICAL)**

MODE	12V±10%	5V±8%	POWER
Spin-up	2900 mA	400 mA	
Seek	920 mA	470 mA	13.4 W
Read/Write	400 mA	500 mA	< 8 W
Idle	450 mA	360 mA	7.2 W
Standby	20 mA	20 mA	0.9 W

**ENVIRONMENTAL LIMITS**

**ACOUSTICS**

Idle mode	3.5 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	27° 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 2.15 Grms, no damage
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

All Maxtor products are backed by the *No Quibble*<sup>®</sup> 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<sup>6</sup> or 1 million bytes and 1 gigabyte as 10<sup>9</sup> or 1 billion bytes. Printed in the U.S.A. 6/99. DiamondMax™, DualWave™, MaxFax™, MaxSafe™ and ShockBlock™ are trademarks of Maxtor. No Quibble is a registered trademark of Maxtor. Copyright © 1999 Maxtor Corporation. 6/99 Stock #DMP6800 Rev. 4172



**ShockBlock MaxSafe**

