

*Diamond*  
Max™  
*plus* **5120**



Introducing the DiamondMax™ Plus 5120 from Maxtor — our 2nd generation 7,200 RPM drive for high-end desktop and server storage solutions.

Our latest areal density champion packs 5.1 GB on a single platter and features advanced DSP electronics, an UltraDMA 33/66\* interface and 31.2 MB/sec media transfer rates — perfect for multimedia authoring and digital video projects.

Best of all, every Maxtor drive is backed by unsurpassed service and support.

When only the best will do, turn to DiamondMax Plus 5120 from Maxtor.

**7,200 RPM**

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

**20.4 – 10.2 GB**

*Designed for High-end  
Desktop and Server Systems*

**FEATURES:**

*Fast ATA-4/Enhanced  
IDE compatible*

*Digital Signal Processor  
(DSP)-Based Architecture*

*UltraDMA 33/66\*  
Data Transfer Rate*

*9.0 ms Seek Time*

*No Quibble®  
Service and Support*

\* UDMA 66-compatible 5120 drives will carry a "U" in the model number.

**Maxtor®**



**Win 100 Hardware**  
DiamondMax 2160 (8.4 GB)  
Windows Magazine, June 1998



**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 2500 (10.0 GB)  
DiamondMax 2880 (11.5 GB)  
Storage Review, Summer 1998

**Maxtor's DiamondMax Plus 5120 series delivers outstanding performance including:**

- 7,200 RPM spin speed
- 5.1 GB of storage per disk
- 9.0 ms average seek
- 512 KB cache buffer
- Fast data transfer rates (up to 33 MB/sec)
- 3-year warranty



MODEL	92048D8	91536D6	91024D4
CAPACITY	20,480 MB	15,360 MB	10,240 MB
HEADS	8	6	4
DISKS	4	3	2

**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	< 0.5 ms
Start Time (0 - drive ready)	< 8.8 sec

**DATA TRANSFER RATE**

To/From Interface*	up to 33.0 MB/sec
To/From Media	up to 31.2 MB/sec

**DRIVE CONFIGURATION**

Integrated Controller	ATA-4/Ultra DMA
Buffer Size	512 KB
Buffer Type	SDRAM
Sectors per Track	240-403
Tracks per Surface (cylinders)	14,850
Areal Density	3,800 Mb per in <sup>2</sup>
Track Density	14,522 tpi
Flux Density	217-271 kfc
Recording Density	204-255 kbp
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

\*UDMA 66-compatible 5120 drives will carry a "U" in the model number.

**POWER REQUIREMENTS (AVERAGE)**

MODE	12V±8%	5V±10%	POWER
Spin-up	2400 mA	200 mA	29.8 W
Seek	860 mA	340 mA	12.1 W
Read/Write	460 mA	325 mA	< 8 W
Idle	475 mA	250 mA	< 7 W
Standby	8 mA	160 mA	< 1 W

**ENVIRONMENTAL LIMITS**

**ACOUSTICS**

Idle mode	35 dBA (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
Non-operating, random	301 - 500 Hz at 0.0006 G2/Hz
	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	20 Gs, 2 ms, no errors
Non-operating Mechanical Shock	200 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. 2/99. DiamondMax™ and MaxFax™ are trademarks of Maxtor. No Quibble is a registered trademark of Maxtor. Copyright © 1999 Maxtor Corporation. 2/99 Stock #DMPlus5120 Rev. 2022

