

## DiamondMax® 11

ATA HARD DRIVE

400GB 500GB

### HIGHLIGHTS

- Industry-leading 500GB capacity
- 3.5-inch 7200 RPM 3.0Gb Serial ATA hard drive
- Leading performance and reliability for desktop applications

### FEATURES

- Second-generation 3.0Gb Serial ATA II
- Native command queuing
- Ultra ATA data transfer speeds up to 133MB/sec
- 16MB cache buffer
- Fluid dynamic bearing motor for quiet operation
- Outstanding reliability with:
  - Advanced mechanical platform
  - Shock Protection System™
  - Data Protection System™
- RoHS compliant

### Half a terabyte with 3.0Gb SATA II

500GB capacity for top-of-the-line PC systems. Ample capacity for power users and enthusiasts to store massive volumes of data, music and video with the enhanced reliability and great performance of DiamondMax drives.

#### High Performance

The DiamondMax 11 SATA drive supports native command queuing, which intelligently reorders read and write commands to improve performance.

The large 16MB buffer delivers industry-leading benchmarks and blazing performance.

#### Serial ATA\*

The DiamondMax 11 drive incorporates the latest and fastest 3.0Gb/s Serial ATA II interface, with data transfer rates and functions to accelerate system performance.

#### Parallel ATA

The DiamondMax 11 drive is also available with the industry's fastest version of the parallel ATA interface. The Maxtor-developed Ultra ATA/133 interface maximizes performance by supporting data transfer rates up to 133MB/sec.

#### RoHS Compliant

Maxtor supports the EU directive for Restriction of Hazardous Substances (RoHS)†. RoHS-compliant versions of the DiamondMax 11 drives are available.

#### Reliability

The DiamondMax 11 drive uses Maxtor's latest mechanical platform to deliver the highest capacities with the best performance and reliability. Reliability and data integrity are enhanced with the Maxtor-developed Shock Protection System and Data Protection System.



\*Note Serial ATA features like native command queuing are not available on drives with a parallel interface

†Directive 2002/95/EC of the European Parliament and of the Council of 27 January, 2003.

## ORDER INFORMATION

RoHS compliant version 

<b>Capacity</b>	<b>400GB</b>	<b>500GB</b>
<b>Model</b> Serial ATA (3.0Gb/s)	<b>6H400F0</b>	<b>6H500F0</b>
<b>Model</b> ATA/133	<b>6H400R0</b>	<b>6H500R0</b>

## SPECIFICATIONS

### Performance Specifications

Rotational Speed	7200 RPM
Buffer Size	16MB
External Data Transfer Rate(MB/sec)	
Serial ATA	300
Parallel ATA	133
Average Seek (ms)	<8.5
Average Latency (ms)	4.17

### Reliability Specifications

Start/Stop Cycles (min)	>50,000
Component Design Life (min)	5 years
Annualized Return Rate (ARR)	<1%

### Acoustics

Idle (avg, max)	3.1 / 3.2 bels
Performance Seek (avg, max)	3.5 / 3.6 bels

### Environmental Limits

#### Temperature

Operating (°C)	0 to 60
Non-operating (°C)	-40 to 71

#### Shock

Operating Mechanical Shock 2ms (G)	63
Non-operating Mechanical Shock 2ms (G)	300

### Physical Dimensions

Width (max mm)	101.6
Length (typical mm)	147
Height (max mm)	26.1
Weight max (LB)	1.58

	SATA 3 Disk	SATA 4 Disk
<b>Power</b>		
Spinup (avg, watts)	28.7	29.7
Seek (avg, watts)	12.3	13.6
Idle (avg, watts)	7.0	8.1
Standby (avg, watts)	2.1	2.2



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For purposes of measuring drive storage capacity, a gigabyte (GB) means 1,000,000,000 bytes.  
Total accessible capacity varies depending on operating environment. Seek times are at nominal conditions and include settling.

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