

### CONSUMER ELECTRONICS

#### **Designed for CE applications:**

- *Personal Video Recorders*
- *Video Surveillance*
- *Media Centers*

*AV Capacities from 60GB to 160GB*

*3.5-Inch 5400 RPM Consumer Electronics Hard Disk Drives*

#### **FEATURES:**

- **Quiet Drive Technology**
- **AV Stream Performance**
- **Thermal Monitoring System**
- **Shock Protection System**
- **MaxLabs Design Centers**

## Diamond **Max**16



### CE Proven

#### **Maxtor QuickView CE hard disk drives**

Recognized as the leader in consumer electronics (CE) products, Maxtor continues to focus on the advanced development of QuickView® CE hard disk drives with proven CE features such as Quiet Drive Technology, AV streaming performance, innovative designs, Thermal Monitoring System, Shock Protection System™, and environmental optimization.

#### **Maxtor MaxLabs**

Established in 1997, MaxLabs™ is a global, distributed set of design, integration and test services to optimize hard-disk-drive-based platforms for the CE market. MaxLabs leverages dozens of shipping CE design wins bringing integrated AV disk drive products to market with the performance, reliability and quality demanded by our OEM customers and consumers alike.

#### **Personal Video Recorders**

Integrated with Maxtor QuickView CE hard disk drives, personal video recorders (PVR) have created a revolution in the way people watch TV. QuickView CE drives AV performance and large video capacity enable cable, satellite, and stand-alone and terrestrial set top boxes (STB) to digitally record, store, playback, nonlinear fast forward, reverse, pause and time-shift up to 250 hours of your family's favorite programs simultaneously.



# DiamondMax<sup>®</sup>16

Capacity	60GB	80GB	120GB	160GB
<b>Model</b> ATA/133 2MB Buffer, Ball Bearing Motor	<b>4A060J0</b>	<b>4A080J0</b>	<b>4A120J0</b>	<b>4A160J0</b>
ATA/133 2MB Buffer, FDB Motor	<b>4A060L0</b>	<b>4A080L0</b>	<b>4A120L0</b>	<b>4A160L0</b>

Note: J-BB motors, L-FDB motor

## Performance Specifications

Rotational Speed	5400 RPM
Buffer Size	2MB
External Transfer Rate (Mbytes/sec)	Up to 150
Average Seek (msec)	<12.1
Average Latency (msec)	5.56

## Drive Configuration

Bytes per Sector/Block	512
Logical CHS	16,383/16/63

## Reliability Specifications

Start/Stop Cycles (min)	>50,000
Component Design Life (min)	5 years
Data Errors (non-recoverable)	<1 per 10E 15 bits read
Annualized Return Rate (ARR)	<1%

## Power Requirements

Mode	5V	12V
Seek (mA)	610	590
Idle (mA)	589	222
Standby (mA)	110	36

## Environmental Limits

### CE Acoustics

Idle (sound power: bel)	2.4
Seek (sound power: bel)	2.8

### CE Temperature

Operating (0°C)	5 to 60
Non-operating (0°C)	-40 to 71

### CE Shock

Operating Mechanical Shock 2msec (G)	60
Non-operating Mechanical Shock 2msec (G)	350

## Physical Dimensions

Height (max mm)	26.1
Width (typical mm)	101.6
Length (max mm)	146.1
Weight (LB/g)	1.37/620

Specifications subject to change without notice. GB means 1 billion bytes. Total accessible capacity varies depending on operating environment. Seek times and acoustics are average values. Seek performance developed utilizing technology licensed from Convolve, Inc. ©2002 Maxtor Corporation. Maxtor, DiamondMax and QuickView are registered trademarks of Maxtor Corporation. MaxLabs and Shock Protection System are trademarks of Maxtor Corporation. All other brands or products are trademarks or registered trademarks of their respective holders. Actual products may vary from photos shown. Maxtor Corporation, 500 McCarthy Boulevard, Milpitas, CA 95035 9/02 6503 JC/PDF/web



For more information on Maxtor storage products, visit our website at [www.maxtor.com](http://www.maxtor.com)

All Maxtor products are backed by our leading service and support staff.

Service includes:

- Advance replacement in 2 business days
- 24-hour on-line troubleshooting tools and e-mail
- Maxtor's commitment to total customer satisfaction
- Product support representatives available Monday-Friday

To speak with a Maxtor product support representative in the U.S. and Canada, call 1-800-2MAXTOR, Mon.-Fri. from 5 a.m. to 5 p.m (PST).

In Europe, call +353 1 204 1111 Mon.-Thur. from 8:30 a.m. to 5 p.m (GMT) and Fri. 8:30 a.m. to 4 p.m. (GMT).

In Australia, call +61 2 9369 3662. In Japan, call 00531653616, And in Singapore, call 65-6852-0220 or 1-800-481-6788.

