

CAPACITY

HIGHLIGHTS

- 3.5-inch 5400 RPM capacity hard drives
- Capacities up to 300GB
- Designed for desktop systems, commercial and consumer electronics applications

FEATURES

- Parallel ATA data transfer speeds up to 133MB/sec
- 2MB cache buffer
- Quiet Drive Technology
- Shock Protection System™
- Data Protection System™

DiamondMax® 16

ATA HARD DRIVE

40GB 60GB 80GB 120GB 160GB 250GB 300GB

Demonstrating Outstanding Capacity, Value and Reliability for Your Desktop Storage Needs

The Maxtor DiamondMax® 16 hard disk drive is designed to efficiently meet the need for capacity. With industry-standard capacity points up to 300GB, DiamondMax 16 drives confirm Maxtor's leadership position in drive technology. The drives use advanced, integrated electronics combined with numerous design innovations to achieve a wide range of capacity points, solid reliability, and quiet operation. As a result, they are the premier choice for desktop, commercial and consumer electronics high-capacity storage needs.

Maxtor-developed Parallel ATA/133 Interface

Maxtor-developed parallel ATA interfaces have maximum data transfer rates of 133 MB/sec. With this leading-edge interface, end users will experience the fastest parallel ATA data transfer rates available.

Maxtor Quiet Drive Technology

Maxtor Quiet Drive Technology provides users with superior disk drive acoustics by reducing noise levels and improving sound quality.

Delivering Reliability

DiamondMax 16 drives deliver high reliability and data integrity using the Maxtor-developed Shock Protection System (SPS) and Data Protection System (DPS). SPS and DPS give the drive enhanced protection against both operating and non-operating shock to eliminate costly drive returns. These systems deliver high reliability, as shown by the DiamondMax product line's annualized return rate (ARR) of less than 1.0%.



Capacity	40GB	60GB	80GB	120GB	160GB	250GB	300GB
Model		4R060J0	4R080J0		4A160J0	4A250J0	4A300J0
ATA/133 2MB buffer	4R040L0	4R060L0	4R080L0	4R120L0	4R160L0		

Note: J-BB motors, L-FDB motor

Performance Specifications

Rotational Speed	5400 RPM
Buffer Size	2MB
External Transfer Rate(MB/sec)	133
Average Seek (ms)	≤12.6
Average Latency (ms)	5.6

Disk Drive Configuration

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

Reliability Specifications

Start/Stop Cycles (min)	>50,000
Component Design Line (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)	628	587
Idle (mA)	582	224

Standby (mA)	116	41
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Environmental Limits

Acoustics FDB motor

Idle (sound power: bel)	2.4
Seek (sound power: bel)	3.6

Temperature

Operating (°C)	5 to 55
Non-operating (°C)	-40 to 71

Shock

Operating Mechanical Shock 2ms (G)	60
Non-operating Mechanical Shock 2ms (G)	300

Physical Dimensions

Width (max mm)	101.6
Length (typical mm)	147.0
Height (max mm)	26.1
Weight max (LB/g)	1.37/610



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- Advance replacement in 2 business days
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- Product support representatives available Monday-Friday

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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. ©2003 Maxtor Corporation. Maxtor and DiamondMax are registered trademarks of Maxtor Corporation. All other trademarks are the property of their respective owner. Printed in the USA. Maxtor Corporation, 500 McCarthy Boulevard, Milpitas, CA, 95035. DS-DM16-3/03-CL

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