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Maxtor®



# DiamondMax® 17

## ATA HARD DRIVE

**80GB | 160GB | 250GB | 320GB**

### HIGHLIGHTS

- 3.5-inch 7200 RPM 3.0Gb Serial ATA hard drive
- Mainstream capacities up to 320GB
- Reliability, features and performance for Desktop PC computing

### FEATURES

- Leading technology supports popular capacity points
- Latest Serial ATA interface with 3.0 Gb/s data transfer speed
- Native Command Queuing
- Ultra ATA data transfer speeds up to 133MB/s
- Engineered for robustness and reliability
- RoHS compliant

### DESIGNED FOR

- Home desktop PCs
- Office and business PCs
- Dual drive PC applications
- General, non-PC, ATA hard drive storage applications

## Reliability, performance and leading mainstream features

DiamondMax 17 is the latest ATA disk drive from Maxtor and has been designed to provide reliability and value for home or office desktop PC users.

### Capacities

The drive offers the most efficient support of desktop capacity points 80GB to 320GB.

### Low Power and Quiet

The DiamondMax 17 disk drive design combines performance with low power and acoustics.

### Delivering reliability

The robust design of the DiamondMax 17 drive has been engineered to deliver reliability and data integrity.

The Maxtor-developed Shock Protection System™ and Data Protection System™ provide enhanced protection against operating and non-operating shock.

### Serial ATA

DiamondMax 17 disk drive incorporates the latest features of the Serial ATA interface (SATA II) with 3.0Gb data transfer rates and functions to accelerate system performance.

Available SATA II features include Native Command Queuing[2] which intelligently reorders read and write commands to optimize drive efficiency and performance.

### Parallel ATA

Also available with the Maxtor-developed Ultra ATA/133 interface.

### RoHS Compliant

Maxtor supports the EU directive for Restriction of Hazardous Substances (RoHS)[3]. DiamondMax 17 is RoHS compliant.

[1] Drive base casting temperature
[2] Native Command Queuing is not available on drives with a parallel ATA interface
[3] Directive 2002/95/EC of the European Parliament and of the Council of 27 January, 2003

## ORDER INFORMATION

| Capacity | 80GB | 160GB | 250GB | 320GB |
|---|---|---|---|---|
| **All products are RoHS Compliant** | | | | |
| **Model** Serial ATA (3.0Gb/s) 8MB buffer | **6G080E0** | **6G160E0** | **6G250E0** | **6G320E0** |
| **Model** ATA /133 2MB buffer | **6G080L0** | — | — | — |
| **Model** ATA/133 8MB buffer | — | **6G160P0** | **6G250P0** | **6G320P0** |

## SPECIFICATIONS

### Performance Specifications

| | |
|---|---|
| Rotational Speed | 7200 RPM |
| Buffer Size | |
| 80GB to 320GB SATA | 8MB |
| 80GB ATA/133 | 2MB |
| 160GB to 320GB ATA/133 | 8MB |
| External Data Transfer Rate (max) | |
| Serial ATA (Gb/s) | 1.5 or 3.0 |
| Parallel ATA (MB/s) | 133 |
| Typical Seek time 80GB (ms) | 12 |
| Typical Seek time 160-320GB (ms) | 8.9 |
| Average latency (ms) | 4.17 |
| SATA II Features<br>SATA versions of DiamondMax 17 have most of the extensions to the SATA II specification including Native Command Queuing | |

### Reliability Specifications

| | |
|---|---|
| Ramp Load/Unload cycles | 600k |
| Component Design Life (min) | 5 years |
| Annualized Return Rate (ARR) | <1% |

### Acoustics

| | |
|---|---|
| Idle—typical (Bels) | 2.6 |
| Quiet Seek—typical (Bels) | 2.7 |
| Normal Seek—typical (Bels) | 3.2 |

### Environmental Limits

| | |
|---|---|
| *Temperature* | |
| Operating (°C) | 0 to 60 |
| Non-operating (°C) | -40 to 70 |
| *Shock* | |
| Operating Mechanical Shock 2ms (G) | 65 |
| Non-operating Mechanical Shock 2ms (G) | 350 |

| Physical Dimensions | 1 disk | 2 disk |
|---|---|---|
| Width (max mm) | 102 | 102 |
| Length (max mm) | 147 | 147 |
| Height (max mm) | 26.1 | 26.1 |
| Weight—normal | 460g/1.02lb | 530g/1.12lb |

### Power Consumption

| | |
|---|---|
| Start up mode (typical peak W) | <25 |
| Sequential Read/Write (typical W) | <10 |
| Idle Mode (typical W) | <8 |
| Standby Mode (typical W) | <1 |

**For support or information, call us at 1-800-2Maxtor or visit us at www.maxtor.com**

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

To speak with a Maxtor product support representative in the U.S. and Canada, call 1-800-2MAXTOR, Mon.-Fri. from 7 a.m. to 4 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 005316-53616, and in Singapore, call 65-6852-0220 or 1-800-481-6788.

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.
Specifications subject to change without notice. Seek performance developed utilizing technology licensed from Convolve, Inc.

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