

Top Value and Reliability

RELIABILITY
RELIABILITY
RELIABILITY

Key Features and Benefits

- **The End-User Experience. The Fireball *lct20* is a drive designed to enhance and improve the end-user experience**
- **Lower Total Cost of Ownership. Quantum's exclusive Shock Protection System II and Data Protection System help deliver a lower total cost of ownership by protecting against physical damage, data loss, and unnecessary drive returns**
- **Quiet Drive Operation. Quantum's new Quiet Drive Technology provides a heightened user experience by reducing the level of acoustics and improving its quality**
- **Wide Range of Capacities. Available with 10.0 to 40.0 GB capacity in a 3.5-inch form factor to handle a wide range of applications, from home PCs to commercial systems**

The Market

What the industry presently demands from hard drives are reliability, quiet operation, low total cost of ownership, and the ability to support the most popular applications: word processing, sending and receiving e-mail, and browsing the Internet. The Quantum Fireball™ *lct20*, part of a family of hard drives expressly created to enhance and improve the end-user experience, efficiently meets these industry demands. Building on the proven Fireball platform, the Fireball *lct20* drive uses advanced, integrated electronics combined with numerous design innovations to achieve a wide range of capacity points, solid reliability, and quiet operation all at very competitive prices. Optimized RPM and seek provide these benefits that the end user truly values. As a result, these drives are today's premier value in desktop storage for consumer and business applications.

New Quantum-Developed Ultra ATA/100 Interface

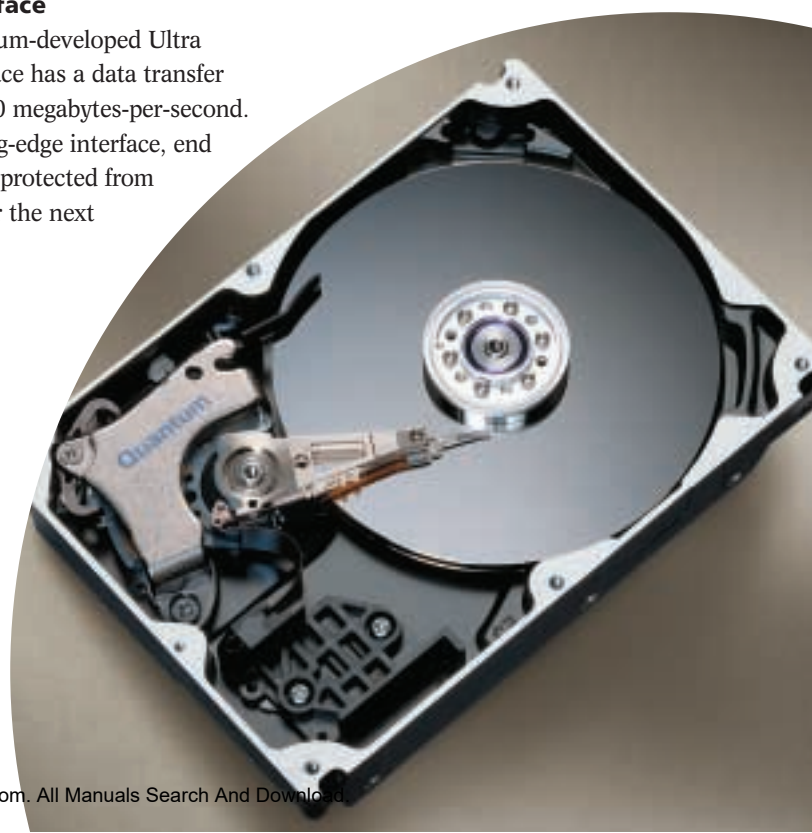
The new Quantum-developed Ultra ATA/100 interface has a data transfer rate of up to 100 megabytes-per-second. With this leading-edge interface, end users should be protected from obsolescence for the next several years.

Quantum Quiet Drive Technology

Quantum developed its exclusive Quiet Drive Technology (QDT) to provide users with the lowest possible disk drive acoustics and best overall sound quality from their drives. Through innovative technology, QDT reduces the drive noise by improving the sound quality while at the same time reducing the sound measurement.

Delivering Reliability

Like previous Fireball generations, the Fireball *lct20* takes reliability and data integrity to an even higher level with Quantum's Shock Protection System II (SPS II) and Data Protection System (DPS). SPS II gives the user enhanced protection against both operating and non-operating shock. DPS verifies essential functions in seconds to eliminate costly and unnecessary drive returns. Together, these systems deliver higher reliability and improved data integrity, while reducing drive returns and cutting processing and replacement costs.



| Specifications | 10.0 | 20.0 | 30.0 | 40.0 |
|---------------------------------------|--------------------|--------------------|--------------------|--------------------|
| Form Factor | 3.5" (low profile) | 3.5" (low profile) | 3.5" (low profile) | 3.5" (low profile) |
| Interface | Ultra ATA/100 | Ultra ATA/100 | Ultra ATA/100 | Ultra ATA/100 |
| Formatted Capacity (MB ¹) | 10,262 | 20,416 | 30,020 | 40,027 |

Disk Drive Configuration

| Recording Surfaces | 1 | 2 | 3 | 4 |
|-----------------------|--------|--------|--------|--------|
| ATA Logical Cylinders | 16,383 | 16,383 | 16,383 | 16,383 |
| Heads | 16 | 16 | 16 | 16 |
| Sectors | 63 | 63 | 63 | 63 |

Acoustics

| | |
|------------------------------|------|
| Sound Power (bels, typ) | |
| Idle | 2.7 |
| Seek | <3.0 |
| QDT (Quiet Drive Technology) | yes |

Power Specifications

| | |
|-------------------------------|-----------|
| Nominal Voltage (V) | +5/+12 |
| Voltage Margin (%) | ±5/±10 |
| Typical Power Draw (W) | |
| Idle | <5.0 |
| Operating ³ | <8.5 |
| Peak Current (mA on +5/+12 V) | 700/1,700 |

Reliability Specifications

| | |
|--|--------------------------|
| Start/Stop Cycles (ambient) | 50,000 |
| Nonrecoverable Data Errors (per bits read) | <10 per 10 ¹⁵ |
| Non-Op Shock @ 2 ms | 300 Gs |
| AFR projection (%) | <1.0 |
| SPS II | yes |
| DPS | yes |

Physical Specifications

| | |
|------------------------|--------------|
| Dimensions-inches (mm) | |
| Width | 4.00 (101.6) |
| Length | 5.75 (146.1) |
| Height | 1.00 (25.4) |
| Weight—pounds (g) | 1.1 (500) |

Environmental Limits

| | |
|--------------------------------|-----------|
| Operating Temperature (°C) | 5 to 55 |
| Non-Operating Temperature (°C) | -40 to 65 |
| Non-Condensing Humidity (%) | 10 to 85 |
| Non-Condensing Humidity (%) | 5 to 95 |

Performance Specifications

| | |
|---|-----------|
| Typical Seek Times ² (ms) | |
| Average | 12.0 |
| Track-to-Track | 2.0 |
| Full Stroke | 24.0 |
| Drive Class (RPM) | 4,500 |
| Internal Data Rate (Mb/sec) | Up to 248 |
| Data Transfer Rates (Buffer-to-Host) (MB/sec) | |
| Ultra ATA/100 | 100 |
| Ultra ATA/66 | 66.6 |
| Ultra ATA/33 | 33.3 |
| PIO Mode 4 | 16.6 |
| PIO Mode 2 | 16.6 |
| Buffer Size (KB) | 128 |
| Typical Power On to Drive Ready (sec) | ~8 |

1. GB = 1 billion bytes. Total accessible capacity varies depending on operating environment 2. Seek times are at nominal conditions and include settling. 3. Operating is defined as 40% seek, 30% read, 20% active, and 10% write. **Note:** Warranty is standard when products are purchased directly through authorized Quantum distributors/dealers. Unless otherwise agreed, a one-year warranty is provided to all OEM purchasing directly from Quantum. End-user warranties provided by computer manufacturers may vary.



Quantum
Fireball™ *lct20*

For more information on Maxtor's data storage products,
please visit our web site at www.maxtor.com

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