



# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for MAXTOR ATLAS 10K III. You'll find the answers to all your questions on the MAXTOR ATLAS 10K III in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

- User manual MAXTOR ATLAS 10K III
- User guide MAXTOR ATLAS 10K III
- Operating instructions MAXTOR ATLAS 10K III
- Instructions for use MAXTOR ATLAS 10K III
- Instruction manual MAXTOR ATLAS 10K III



**Atlas 10K III** 18.4 GB, 36.7 GB, 73.4 GB

### Exceptional performance and value for servers, workstations, and storage subsystems

#### THE MARKET

Explosive growth in enterprise-wide computing and Internet applications is creating increased demand for larger and faster servers, performance workstations, and storage subsystems. To address this growth, Maxtor offers the award-winning Atlas™ 3.5-inch Product Family. The latest offering is the Atlas 10K III hard disk drive, which extends Maxtor's leadership position in the market. Atlas 10K III offers its customers the necessary capacity, leading performance, and rock-solid reliability to generate significant competitive advantages.

#### PERFORMANCE AND MORE...

The Atlas 10K III drive continues Maxtor's performance leadership position. It sports a 10,000 RPM platter rotational speed, blazing fast 4.5 millisecond (ms) seek time, a large 8 megabyte (MB) cache buffer, and a 55 megabyte-per-second (MB/sec) peak sustained data throughput. These specs lead to one conclusion—the Atlas 10K III drive delivers the leading random I/O performance and sequential throughput required by our customer's data-intensive applications.

Per-platter data densities directly influence customer value and drive reliability. The Atlas 10K III boasts the highest per-platter data density of 18.4 gigabytes (GB) per platter. This allows us to pack 18.4 GB, 36.7 GB and 73.4 GB offerings in a 1-inch form factor. The combination of performance and value makes the Atlas 10K III the optimum choice for Windows NT and UNIX enterprise and departmental servers, high-performance workstations, and storage subsystems.

#### MAXTOR QUALITY AND RELIABILITY

To ensure flawless and consistent performance, the Atlas 10K III drive features Maxtor's breakthrough Shock Protection System II (SPS II). SPS II protects the drive from mistreatment during handling and integration. For systems integrators, SPS II results in lower returns, lower total cost of ownership, and more satisfied customers. SPS II is but an example of Maxtor's continuous commitment to quality—we confidently stand behind the Atlas 10K III with a five-year warranty.

#### KEY FEATURES AND BENEFITS

**Exceptional Performance** – 10,000 RPM, 4.5ms seek time, large 8 MB cache buffer, and peak 55 MB/sec sustained data throughput.

**Exceptional Value** – 18.4 GB/platter leads the way for the next generation of SCSI drives. Higher data densities allow for higher reliability and customer value.

**Advanced Interfaces** – U160 and U320 interfaces available. U320 includes new features such as Packetization and Quick Arbitrate & Select, which greatly increase data throughput performance. The U320 interface keeps Maxtor in the lead in providing the latest interface technology.

**Superior Reliability** – Maxtor Shock Protection System, Data Protection System, Thermal and Shock Sensors, S.M.A.R.T. Compliance.

**Superior Manageability** – Active LVD bus hot pluggable design, intelligent bus management, and automatic SCSI mode configuration for U320, U160, Ultra2, Ultra, and Fast SCSI interfaces.

**Improved Acoustics** – Acoustics are very important for many customers. To address their needs, we designed the acoustic levels of a 7,200 rpm drive into a 10,000 rpm drive! Yet another example of Maxtor setting a new standard.



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<http://yourpdfguides.com/dref/2375636>

**Manual abstract:**

Atlas 10K III offers its customers the necessary capacity, leading performance, and rock-solid reliability to generate significant competitive advantages. Per-platter data densities directly influence customer value and drive reliability. The Atlas 10K III boasts the highest per-platter data density of 18.4 gigabytes (GB) per platter. This allows us to pack 18.4 GB, 36.7 GB and 73.4 GB offerings in a 1-inch form factor. The combination of performance and value makes the Atlas 10K III the optimum choice for Windows NT and UNIX enterprise and departmental servers, high-performance workstations, and storage subsystems. **KEY FEATURES AND BENEFITS** Exceptional Performance 10,000 RPM, 4.

5ms seek time, large 8 MB cache buffer, and peak 55 MB/sec sustained data throughput. Exceptional Value 18.4 GB/platter leads the way for the next generation of SCSI drives. @@Advanced interfaces U160 and U320 interfaces available. @@@@Compliance.

@@Backwards compatible to Ultra2, Ultra SCSI. In 68-pin wide and 80-pin SCA-2 18,400 36,700 73,400 Formatted Capacity (MB) Disk Drive Configuration Disks Head/Recording Surfaces Bytes per Sector Encoding/Detection Method 512 Maximum Areal Density (Gb/sq. in.) 17.9 <10 per 1012 <10 per 1016 360-bit non-interleaved Reed Solomon ECC with on-chip correction 5 1 2 2 4 4 8 Warranty3 (years) Physical

Specifications Dimensions--inches (mm) Width Length Height Weight--pounds (kg) 50/52 RLL PRML 4.

00 (101.6) 5.787 (147.0) 1.028 (26.1) max - 1.54 (0.7) Performance Specifications Typical Seek Times (ms) Average Track-to-Track Full Stroke 2 4.5 0.3 11 3.

0 10,000 350 to 622 33 to 55 320 160 80 40 8 Environmental Limits Operating Temperature (°C) Non-Condensing Humidity (%) Vibration (G, 5 to 500 Hz) Acoustics (bels, Idle) - typical Non-Operating Temperature (°C) Non-Condensing Humidity (%) Shock (G, 2 ms, 1/2 sine) Vibration (G, 5 to 500 Hz) Power Specifications Voltage Requirements (V) Typical Power Draw (W, Idle) SCSI Peak Current (A on +5V/+12V) Start-up +5V DC±5% +12V DC ±5% 10 0.9/2.2 5 to 55 5 to 95 0.5 3.1 -40 to 70 5 to 95 250 2.0 3.4 3.6 Average Rotational Latency (ms) Rotational Speed (RPM) Internal Data Rate (Mb/sec) Sustained Throughput (MB/sec) Data Transfer Rates (Buffer Host) Ultra320 SCSI (MB/sec) Ultra160 SCSI (MB/sec) Ultra2 SCSI (MB/sec) Ultra SCSI (MB/sec) Buffer Size (MB) 1. Maxtor defines a megabyte (MB) as 106 or 1,000,000 bytes. 2.

Seek times are at nominal conditions and include settling. 3. This warranty is standard when products are purchased directly through authorized Maxtor distributors/dealers. End-user warranties provided by computer manufacturers may vary. All Maxtor products are backed by the No Quibble Service® policy, the benchmark for service and support in the industry.

No Quibble includes: · Advance replacement in 2 business days · MaxFax® 24-hour automated technical support · Maxtor's commitment to total customer satisfaction · Phone technicians available Monday-Friday For more information or to talk to a customer support representative, call: · U.S. and Canada 800-2MAXTOR. Available 5 a.m.

- 5 p.m. (PT) Mon-Fri · Europe +353 1 204 1111. Available 9:30 a.m. - 6 p.m. (CET) Mon-Thurs and 9:30 a.m. - 5 p.

m. (CET) Fri · Asia/Pacific +61 2 9369 3662. Available 8 a.m. - 5:30 p.m. @ Copyright ©2001 Maxtor Corporation. All rights reserved. @ Atlas is a trademark of Maxtor Corporation. Printed in the U.S.A. 50K Ellipsis DS-10KIII .



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