



Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for MAXTOR ATLAS 10K III ULTRA 320 SCSI. You'll find the answers to all your questions on the MAXTOR ATLAS 10K III ULTRA 320 SCSI 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 ULTRA 320 SCSI
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Instruction manual MAXTOR ATLAS 10K III ULTRA 320 SCSI

Maxtor SCSI Hard Disk Drives

ENTERPRISE

Atlas 10K III ULTRA320 SCSI

Industry-leading Performance for the Most Demanding High Bandwidth Applications

Setting the Standard
Introducing Atlas™ 10K III-Ultra320, the next generation Maxtor SCSI hard disk drive providing full implementation of all mandatory and optional Ultra320 SCSI interface features as defined in T10/SPI-4 rev. 9 draft standard. These features include Adaptive Active Filtering (AAF), Packetization and Quick Arbitration and Selection (QAS). Adaptive Active Filtering is a Maxtor technology innovation that allows the drive to adapt to changing system configurations and components while optimizing signal quality. This translates into lower error rates, easier integration, and increased bus efficiency for optimal system performance. Ultra320 SCSI provides the highest ever data bus bandwidth and is designed to handle the most demanding enterprise server applications.

Best-Fit Enterprise Applications
Enterprise computer users will now have faster, more reliable data transfer rates for optimal use in: multi-stream video and audio, data warehousing applications, web servers, RAID applications, large file transfers, non-linear editing, high-end graphics, electronic cinema, scientific data processing, video servers, image processing, high definition play back, super computer, and 3D animation.

Proven Full Inter-operability
The Atlas 10K III-U320 has proven full inter-operability with major SCSI and SCSI RAID controller manufacturers and it is backwards compatible with prior SCSI interface standards.

Exceptional Performance

- Ultra320 SCSI with AAF Packetization and QAS for faster overall system performance and data reliability
- 4.5 ms seek time
- Large 8 MB cache buffer
- Maximum sustained interface transfer rate up to 55MB/sec
- High performance Atlas architecture that is ideal for cluster server environments

Industry Leading Bandwidth

- 320M B/sec bus speed

Superior Reliability

- Proven Atlas drive architecture and firmware
- Adaptive Active Filtering (AAF)
- Maxtor's breakthrough Shock Protection System™
- Data Protection System™
- Thermal and Shock Sensors
- S.M.A.R.T. Compliance features

18GB
36GB
73GB



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Manual abstract:

5 ms seek time · Large 8 MB cache buffer · Maximum sustained interface transfer rate up to 55MB/sec · High performance Atlas architecture that is ideal for cluster server environments Industry-leading Performance for the Most Demanding High Bandwidth Applications Setting the Standard Introducing Atlas™ 10K III-Ultra320, the next generation Maxtor SCSI hard disk drive providing full implementation of all mandatory and optional Ultra320 SCSI interface features as defined in T10/SPI-4 rev. 9 draft standard. These features include Adaptive Active Filtering (AAF), Packetization and Quick Arbitration and Selection (QAS). Adaptive Active Filtering is a Maxtor technology innovation that allows the drive to adapt to changing system configurations and components while optimizing signal quality. @@@@ Ultra 320 SCSI widens Maxtor's SCSI leadership. · Ultra 320 SCSI is the latest evolution of SCSI and takes drive performance and reliability to the next level. · As a rule of thumb, Bus Bandwidth needs to be 4X the drive throughput to attain optimal system performance Ultra 320 SCSI makes it possible! · Best-in-Class HDD max sustained interface transfer rates: 1999--28 MB/sec, 2000--42 MB/sec, 2001--55 MB/sec · One Atlas 10K III drive can sustain 55 MB/sec peak data rate throughput. Therefore, as few as three drives can saturate an Ultra160 bus limiting your system performance. The Ultra320 Advantage 500 · Ultra 320 SCSI provides optimal system performance, extending your system advantage beyond 2003. Atlas 10K III-Ultra320 provides all the advantages of the Ultra320 SCSI standard.

Features like: free-running clock, training pattern, skew compensation and Adaptive Active Filtering (AAF), Packetization provide unsurpassed data and signal integrity. Quick Arbitration and Selection (QAS) and Flow control optimize system performance. These features are only available with the Ultra320 SCSI standard and the Maxtor Atlas 10K III-Ultra320. Adaptive Active Filtering the Maxtor Advantage Maxtor's Atlas 10K III-U320 AAF implementation improves signal integrity and as a consequence maximizes system performance. Signals with AAF are crisper and have a better peak-to-peak amplitude definition.

@@@@@@@ Data Protection System, Thermal and Shock Sensors, S.M.A.R.T.

@@@@@@@ Used with DT to attain 320 MB/s transfer rate. Reduces signal cross talk. @@@@ Increases overall system performance. @ PROTECTS CUSTOMER'S SCSI INVESTMENT Supports legacy systems running at transfer rates and protocols defined by prior SCSI interface standards. Customer Benefit Training pattern Skew compensation of data signals Cyclic redundancy check (CRC) Domain validation Information unit transfer Transmitter pre-compensation Backward compatibility Optional Features Maxtor Adaptive Active Filtering (AAF) DATA INTEGRITY AND RELIABILITY A closed loop method of improving received signals. It is capable of adjusting to changes in system conditions (e.g. adding a new device to the bus, changing electrical characteristics of the cable plant, etc). PERFORMANCE Reduces arbitration overhead hence increasing system performance. PERFORMANCE Guarantees that all devices have an opportunity to access the bus.

PERFORMANCE Signals the end of data transmission. Increases system performance. DATA INTEGRITY AND RELIABILITY Provides an enhance error detection method and protects data being transfer. Quick Arbitration and Selection (QAS) SCSI bus fairness Flow Control Asynchronous Information Protection (AIP) Specifications Form Factor Interface 18.4 3.5" 36.7 3.5" 73.4 3.5" U320 and U160.

Backwards compatible to Ultra2, Ultra SCSI. In 68-pin wide and 80-pin SCA-2 18,400 36,700 73,400 Specifications Reliability Specifications Data Errors (per bits read) Recoverable Nonrecoverable Error-Correction Method 18.4 36.7 73.4 <10 per 1012 <10 per 1016 360-bit non-interleaved Reed Solomon ECC with on-chip correction 5 Formatted Capacity (MB) 1 Disk Drive Configuration Disks Head/Recording Surfaces Bytes per Sector Encoding/Detection Method 512 Maximum Areal Density (Gb/sq.

in.) 17.9 1 2 2 4 4 8 Warranty 3 (years) Physical Specifications Dimensions--inches (mm) Width Length Height Weight--pounds (kg) 4.00 (101.6) 5.

787 (147.0) 1.028 (26.1) max - 1.54 (0.7) 50/52 RLL PRML Performance Specifications Typical Seek Times 2 (ms) Average Track-to-Track Full Stroke Average Rotational Latency (ms) Rotational Speed (RPM) Internal Data Rate (Mb/sec) Sustained Throughput (MB/sec) Ultra320 SCSI (MB/sec) Ultra160 SCSI (MB/sec) Ultra2 SCSI (MB/sec) Ultra SCSI (MB/sec) Buffer Size (MB) 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) -40 to 70 5 to 95 250 2.0 5 to 55 5 to 95 0.

5 3.1 3.4 3.6 Maximum Burst Interface Transfer Rate 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 1. Maxtor defines a megabyte (MB) as 106 or 1,000,000 bytes. 2. Seek times are at nominal conditions and include settling. 3.

@@End-user warranties provided by computer manufacturers may vary. ©2002 Maxtor Corporation. @@@ Specifications subject to change without notice. Total accessible capacity varies depending on operating environment. Maxtor Corporation, 500 McCarthy Boulevard, Milpitas, CA, 95035.

3/02 #6393 JC/Patsons/10K KU Order Information Part Number KU018L2 KU018J2 KU036L4 KU036J4 KU073L8 KU073J8 Capacity 18.4 18.4 36.7 36.7 73.

4 73.4 Interface Ultra 320 Ultra 320 Ultra 320 Ultra 320 Ultra 320 Ultra 320 Connector 68-pin Wide LVD 80-pin SCA-2 68-pin Wide LVD 80-pin SCA-2 68-pin Wide LVD 80-pin SCA-2 For more information on Maxtor storage products, visit our website at www.maxtor.com All Maxtor products are backed by the No Quibble Service® policy-- the benchmark for service and support in the industry. No Quibble Service includes: · Advance replacement in 2 business days · MaxFax® 24-hour automated technical support · 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 9:30 a.m. to 6 p.m (CET) and Fri. 9:30 a.m. to 5 p.m. (CET). In Asia/Pacific, call +61 2 9369 3662 Mon.-Fri. from 8 a.m. to 5:30 p.m. (GMT+8).



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