Maxtor®

10,000 RPM ENTERPRISE-CLASS HARD DRIVE

EXCEPTIONAL CAPACITY AND PERFORMANCE

- Industry's largest capacity 10K RPM drive
- Highest performance— 4.3ms seek time
- Second-generation Ultra320 SCSI with MaxAdapt™
- Maximum sustained data rate up to 72MB/sec
- 8MB cache

EXTRAORDINARY VALUE

- Lowest cost-per-gigabyte disk drive solution
- Double the capacity of 15K RPM drives
- SCSI investment protection

SUPERIOR RELIABILITY

- MaxAdapt for better signal quality
- 24x7 dependability
- Proven Atlas drive architecture and firmware
- Shock Protection System™
- Thermal sensor
- S.M.A.R.T. features

Atlas® 10K IV

SCSI HARD DRIVE

36GB 73GB 147GB

The Industry's Highest Performing 10K RPM Enterprise Class HDD with Leading Capacity for Demanding High-Bandwidth Applications

The Workhorse Just Got Faster

Introducing the Maxtor Atlas™ 10K IV drive, the industry's fastest and largest performing 10K RPM hard disk drive. Its 147GB capacity point and 4.3 ms seek time provide just the right combination of performance and capacity to meet mainstream enterprise hard disk drive market requirements. The Atlas 10K IV drive provides up to a 24% increase in sustained data transfer rates and delivers 5% faster seek times than prior 10K RPM hard disk drive generations. The drive is equipped with the Maxtor second-generation Ultra320 SCSI interface, which includes MaxAdapt™, Maxtor's implementation of Adaptive Active Filtration technology. MaxAdapt is a closed-loop method of improving signal quality by amplifying the fundamental frequency of the signal in the receiver while filtering noise and other undesirable components. MaxAdapt allows the drive to adapt to changing system conditions and components. This translates into lower error rates, easier integration, and increased bus efficiency for optimal system performance. MaxAdapt is only available on Maxtor SCSI hard disk drives.
The Atlas 10K IV drive is designed to handle the most demanding high-bandwidth and high-capacity enterprise server applications.

Best-fit Enterprise Applications

Enterprise computer users now have the highest capacity and performance 10K RPM drive for use in:

- Multi-stream video and audio
- RAID applications
- Large file transfers
- Enterprise servers
- High-end graphics
- Video servers
- Imaging
- NAS environments
- Data warehousing
- SAN environments
- Email servers
- Supercomputing
- Electronic cinema
- Many others

Maxtor Ultra320 SCSI

The Maxtor Ultra320 SCSI interface implementation has proven fully interoperable with all major SCSI and SCSI RAID controller manufacturers, and it is backwards compatible with prior SCSI interface standards.

Specifications	36.7	73.5	147.1
Formatted Capacity (GB)	36.7	73.5	147.1
Bytes per Sector	512		
Interface	Ultra 320 SCSI (Backwards compatible with Ultra160, Ultra2, Ultra SCSI)		
Interface Connectors	68-pin WIDE and 80-pin SCA-2		

Disk Drive Configuration

	36.7	73.5	147.1
Disks	1	2	4
Heads	2	4	8

Performance Specifications

Seek Time

	36.7	73.5	147.1
Average Read/Write (ms)	4.3/4.8	4.3/4.8	4.4/4.9
Track-to-Track Read/Write (ms)	0.3/0.5	0.3/0.5	0.3/0.5
Full stroke Read/Write (ms)	11.0/12.0	11.0/12.0	11.0/12.0
Spindle Speed (RPM)	10,000	10,000	10,000
Average Rotational Latency (ms)	3	3	3

Transfer Rate

	36.7	73.5	147.1
Internal (Mb/sec)	820	820	820
To/From Media (MB/sec)	96	96	96
Maximum Sustained (MB/sec)	72	72	72
Cache (MBytes)	8	8	8

Reliability Specifications

	36.7	73.5	147.1
AFR (Annualized Failure Rate)	0.7%	0.7%	0.7%

Data Error Rate per Bits Read

	36.7	73.5	147.1
Recoverable	<1 per 10^{11}	<1 per 10^{11}	<1 per 10^{11}
Nonrecoverable	<1 per 10^{15}	<1 per 10^{15}	<1 per 10^{15}
Warranty (years)	5	5	5

Specifications	36.7	73.5	147.1

Environmental Specifications

Operating

	36.7	73.5	147.1
Temperature (°C)	5 to 55	5 to 55	5 to 55
Non-Condensing Humidity (%)	8 to 95	8 to 95	8 to 95
Shock 2 ms (G) R/W	63/30	63/30	63/30
Vibration 5-500 Hz (G)	1.5	1.5	1.5
Acoustics, Idle (bels)	3.2	3.2	3.4

Non-Operating

	36.7	73.5	147.1
Temperature (°C)	-40 to 70	-40 to 70	-40 to 70
Non-Condensing Humidity (%)	5 to 95	5 to 95	5 to 95
Shock 2 msec (G)	250	250	250
Vibration 5-500 Hz (G)	2	2	2

Power Specifications

	36.7	73.5	147.1
Voltage Requirements	+5VDC +/- 5%	+12VDC +10%/-7%	
Idle Power (W)	7.8	8.9	10.3

Physical Dimensions

	36.7	73.5	147.1
Width max (inches/mm)	4/101.6	4/101.6	4/101.6
Length max (inches/mm)	5.787/147	5.787/147	5.787/147
Height max (inches/mm)	1.028/26.1	1.028/26.1	1.028/26.1
Weight max (lb/kg)	1.6/0.74	1.6/0.74	1.6/0.74

Order Information

Model Number	Capacity	Interface	Connector
8B036L0	36.7	Ultra 320	68-pin Wide LVD
8B036J0	36.7	Ultra 320	80-pin SCA-2
8B073L0	73.5	Ultra 320	68-pin Wide LVD
8B073J0	73.5	Ultra 320	80-pin SCA-2
8B146L0	147.1	Ultra 320	68-pin Wide LVD
8B146J0	147.1	Ultra 320	80-pin SCA-2

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.

Service includes:
- Advance replacement in 2 business days
- 24-hour on-line troubleshooting tools and e-mail
- 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 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 00531653616, And in Singapore, call 65-6852-0220 or 1-800-481-6788.

Maxtor®

What drives you.™