Atlas® 15K

SCSI HARD DRIVE

18GB 36GB 73GB

ENTERPRISE

15,000 RPM ENTERPRISE-CLASS HARD DRIVE

EXCEPTIONAL CAPACITY AND PERFORMANCE

- Industry's Highest IOPS performance
- 3.2ms seek time
- Second-generation Ultra320 SCSI with MaxAdapt™
- Maximum sustained data rate up to 75MB/sec
- 8MB cache

EXTRAORDINARY VALUE

- Industry's lowest cost-per-I/O disk drive solution
- 45% more IO/sec than the average 10K 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

The World's Fastest Hard Disk Drive—Seek Times as Fast as 3.2 ms Provide the Industry's Highest Performance for Demanding I/O-intensive Applications

Extending the Advantage

The Maxtor Atlas 15K SCSI drive is the fastest hard drive in the world. Its 3.2ms seek time enables 45% more I/Os per second than the average 10K RPM drives can achieve. The Atlas 15K drive can sustain up to 75MB/sec data transfer rate and is ideal for use in high-performance workstations, NAS and SAN environments, OLTP applications, enterprise servers and data mining applications. The drive is equipped with Maxtor-developed Ultra320 SCSI and is backwards compatible with all prior versions of SCSI. The Ultra320 interface includes MaxAdapt™, 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, which translates into lower error rates, easier integration, and increased bus efficiency for optimal system performance.

Best-fit Enterprise Applications

Enterprise computer users will now have the highest IOPS performance for use in:

- Scientific data processing
- Economic modeling
- Enterprise servers
- Mathematical modeling
- Data mining
- OLTP
- Workstations
- 3D animation
- SAN environments
- NAS environments
- GIS, non-linear editing
- Large scale ISP systems
- Many others

Maxtor Ultra320 SCSI

Maxtor's Ultra320 SCSI interface implementation has proven full interoperability with all major SCSI and SCSI RAID controller manufacturers and it is backwards compatible with prior SCSI interface standards.

Specifications	18.4	36.7	73.4
Formatted Capacity (GB)	18.4	36.7	73.4
Bytes per Sector	512	512	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

Disks	1	2	4
Heads	2	4	8

Performance Specifications

Seek Time			
Average Read/Write (ms)	3.2/3.6	3.2/3.6	3.4/3.8
Track-to-Track Read/Write (ms)	0.3/0.5	0.3/0.5	0.3/0.5
Full stroke Read/Write (ms)	8.0/9.0	8.0/9.0	8.0/9.0
Spindle Speed (RPM)	15,000	15,000	15,000
Average Rotational Latency (ms)	2	2	2
Transfer Rate			
Internal (Mb/sec)	860	860	860
To/From Media (MB/sec)	100	100	100
Maximum Sustained (MB/sec)	75	75	75
Cache (MBytes)	8	8	8

Reliability Specifications

AFR (Annualized Failure Rate)	0.7%	0.7%	0.7%
Data Error Rate per Bits Read			
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	18.4	36.7	73.4
Environmental Specifications			
Operating			
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			
Temperature (°C)	-40 to70	-40 to70	-40 to70
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

Voltage Requirements	+5VDC +/- 5%	+12VDC +10%/-7%	
Idle Power (W)	7.2	9.4	11.8

Physical Dimensions

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)	1.8/0.81	1.8/0.81	1.8/0.81

Order Information

Model Number	Capacity	Interface	Connector
8C018L0	18.4	Ultra 320	68-pin Wide LVD
8C018J0	18.4	Ultra 320	80-pin SCA-2
8C036L0	36.7	Ultra 320	68-pin Wide LVD
8C036J0	36.7	Ultra 320	80-pin SCA-2
8C073L0	73.4	Ultra 320	68-pin Wide LVD
8C073J0	73.4	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.

Specifications subject to change without notice. GB means 1 billion bytes. Total accessible capacity varies depending on operating environment. Seek times are at nominal conditions and include settling. 1This warranty is standard when products are purchased directly through authorized Maxtor distributors/dealers. End-user warranties provided by computer manufacturers may vary.

Maxtor®
What drives you.™