

## Cheetah 10K.6

Reliability, Performance and Low Ownership Cost



Lowest Cost  
of Ownership  
10K Disc Drive

147, 73 and 36 Gbytes • 10K RPM • Ultra320 SCSI, 2 Gbit/sec Fibre Channel

### Key Advantages

- Cheetah® 10K.6 enables lower ownership cost
- Double the amount of storage per cubic foot means fewer systems deployed, less space utilized and lower operating costs
- Highest reliability and most mature 10K product design
- The fastest Cheetah 10K ever—25 percent improved data transfer rates
- Several millennia of consistent engineering and manufacturing experience

### Best-Fit Applications

- Data warehousing
- Imaging/multimedia video
- RAID
- Entry level to Enterprise server
- Network Attached Storage (NAS)
- Storage Area Network (SAN)



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### The Seagate® 3D Defense System™ — No One Does More to Protect Your Drives

#### DRIVE DEFENSE

- SeaShell™ packaging provides more than 1,000 Gs shock protection during handling, reducing returns up to 70 percent.

#### DATA DEFENSE

- Seagate Advanced Multidrive System™ (SAMS) reduces effects of rotational vibration generated by drives operating simultaneously.

#### DIAGNOSTIC DEFENSE

- SeaTools (available in Desktop or Enterprise editions)—this disc diagnostic utility prevents the expense and inconvenience of returning healthy drives.

### World-Class Technical Support

- Certified, experienced support staff
- Rated “Above Average to Excellent” by 95 percent of our customers
- Support lines with the shortest wait times in the industry
- Individually archived case histories for quick reference
- Web-based Q&A forum and autoreply e-mail
- Seagate Design Service Centers (DSC) help companies transform innovative ideas into viable products.

[www.seagate.com](http://www.seagate.com)  
1-800-732-4283 (1-800-SEAGATE)

Specifications	147 GB <sup>1</sup>	73 GB <sup>1</sup>	36 GB <sup>1</sup>
Model Number	ST3146807LC/LW/FC	ST373307LC/LW/FC	ST336607LC/LW/FC
<b>Capacity</b>			
Formatted 512 Kbytes/Sector (Gbytes)	146.8	73.4	36.7
Interface	Ultra 320 SCSI	Ultra 320 SCSI	Ultra 320 SCSI
External Transfer Rate (Mbytes/sec)	320	320	320
Interface	2 Gbit/sec FC	2 Gbit/sec FC	2 Gbit/sec FC
External Transfer Rate (Mbytes/sec)	200	200	200
<b>Performance</b>			
Spindle Speed (RPM)	10K	10K	10K
Average Latency (msec)	2.99	2.99	2.99
Seek Time			
Average Read/Write (msec)	4.7/5.2	4.7/5.2	4.7/5.2
Track-to-Track Read/Write (msec)	0.3/0.5	0.3/0.5	0.3/0.5
Transfer Rate			
Internal (Mbits/sec)	475 to 841	475 to 841	475 to 841
Internal Formatted (Mbytes/sec)	43 to 78	43 to 78	43 to 78
Sustained (Mbytes/sec)	38 to 68.5	38 to 68.5	38 to 68.5
Cache, Multisegmented (Mbytes)	8	8	8
<b>Configuration/Organization</b>			
Discs	4	2	1
Heads	8	4	2
Nonrecoverable Read Errors per Bits Read	1 sector per 10 <sup>15</sup>	1 sector per 10 <sup>15</sup>	1 sector per 10 <sup>15</sup>
MTBF (hours), AFR	1,200,000, 0.73%	1,200,000, 0.73%	1,200,000, 0.73%
<b>Power Management</b>			
Typical Op (amps) +12V/+5V SCSI	.95/1.0	.80/.89	.68/.89
Fibre Channel	.94/.97	.88/.97	.75/.97
Power Idle (watts) SCSI	10.5	8.0	7.2
Fibre Channel	10.7	9.0	7.9
<b>Environmental</b>			
Temperature, Operating (°C)	5 to 55	5 to 55	5 to 55
Temperature, Nonoperating (°C)	-40 to 70	-40 to 70	-40 to 70
Shock, Operating: 2 msec (Gs)	25	25	25
Shock, Nonoperating: 2 msec (Gs)	225	225	225
Acoustics Idle (bels—sound power)	3.4	3.3	3.2
Vibration, Operating: 22-350 Hz (Gs)	0.5	0.5	0.5
Vibration, Nonoperating: 22-350 Hz (Gs)	5.0	5.0	5.0
<b>Physical</b>			
Height (in/mm)	1.0/25.4	1.0/25.4	1.0/25.4
Width (in/mm)	4.0/101.6	4.0/101.6	4.0/101.6
Depth (in/mm)	5.75/146.05	5.75/146.05	5.75/146.05
Weight (lb/kg)	1.62/0.734	1.62/0.734	1.62/0.734
<b>Warranty</b>			
Limited Warranty (years)	5	5	5

<sup>1</sup>1 Mbyte = 1,000,000 bytes. For additional details, go to [cheetah.seagate.com](http://cheetah.seagate.com).