

The only 10K entry-level
SCSI solution.



CHEETAH 36ES

THE LOWEST COST/PERFORMANCE 10K DRIVE EVER

BEST-FIT ENTERPRISE
APPLICATIONS

PROFESSIONAL RAID

LAN ENVIRONMENTS

VIDEO EDITING
AND PRODUCTION



- Sixth-generation Cheetah® provides design maturity and reliability
- Formatted data rates up to 63.2 Mbytes per second
- Average seek times as fast as 5.2 msec
- Acoustics of 3.2 bels make this the quietest Cheetah ever!

UP TO 36.9 GBYTES • 10K RPM • ULTRA160 SCSI AND ULTRA320 SCSI

THE CHEETAH 36ES – THE LOWEST COST / PERFORMANCE 10K DRIVE EVER



- Sixth-generation Cheetah® provides design maturity and reliability
- Formatted data rates up to 63.2 Mbytes per second
- Average seek times as fast as 5.2 msec
- Acoustics of 3.2 bels make this the quietest Cheetah ever!

Seagate's 3D Defense System™—
No One Does More to Protect Your Drives
 Our 3D Defense System defends against every major challenge to high-performance data storage.

Drive Defense

- **G-Force** protection reduces susceptibility to shock.
- **SeaShell** packaging provides more than 1000 Gs nonoperating shock, reduces handling damage tenfold and returns by 70 percent.

Data Defense

- **Seagate's Advanced Multidrive System (SAMS)** reduces effects of rotational vibration generated by drives operating simultaneously.
- **Temperature Sensor** warns the host if heat exceeds configured limits.

Diagnostic Defense

- **SeaTools** software utility determines a drive's health and efficiency.
- **Web-Based Tools** help to solve common nondisc-related problems.

World-Class Technical Support

- Certified, experienced support staff
- Rated "Above Average to Excellent" by 95 percent of our customers
- Toll-free support with the industry's shortest queues
- Individually archived case histories for quick reference
- Web-based Q&A forum and autoreply e-mail

CHEETAH 36ES	36.9 GB	36.9 GB	18.4 GB	18.4 GB	KEY ADVANTAGES
Model Number	ST336706LC/LW	ST336746LC/LW	ST318406LC/LW	ST318446LC/LW	
CAPACITY AND INTERFACE					
Formatted-512 bytes/sector (Gbytes)	36.9	36.9	18.4	18.4	Capacities in the sweet spot of the market
Interface	Ultra160 SCSI	Ultra320 SCSI	Ultra160 SCSI	Ultra320 SCSI	Up to 320 Mbyte/sec transfer rate. Includes packetization and QAS.
External Transfer Rate (Mbytes/sec)	160	320	160	320	Fully compatible with Ultra 160
PERFORMANCE					
Spindle Speed (RPM)	10K	10K	10K	10K	Cheetah 36ES is the 10K entry SCSI solution.
Latency, average (msec)	2.99	2.99	2.99	2.99	
Seek Time					Designed with Seagate's Advanced Multidrive System™ (SAMS), a set of designs that reduces the effects of rotational vibration generated from multiple drives operating simultaneously in a cabinet, keeping performance on track while competitor drive performance suffers.
Average read/write (msec)	5.2/6.0	5.2/6.0	5.2/6.0	5.2/6.0	
Track-to-Track read/write (msec)	1.0/1.5	1.0/1.5	1.0/1.5	1.0/1.5	
Transfer Rate					Sixth-generation Cheetah—56 percent faster transfer rate over previous generation.
Internal (Mbits/sec)	520-682	520-682	520-682	520-682	
Internal Formatted (Mbytes/sec)	49.1-63.2	49.1-63.2	49.1-63.2	49.1-63.2	
Cache Multisegmented (Mbytes)	4	4	4	4	
CONFIGURATION/ORGANIZATION					
Discs/Heads	2/4	2/4	1/2	1/2	Areal density is maximized with Seagate's Zero Acceleration Path enhanced track spacing, allowing a lower disc and head count.
Sectors per drive, 512 bytes/sector	71,131,721	71,131,721	35,843,670	35,843,670	
Cylinders	19,036	19,036	19,036	19,036	
Recording Method PRML	32/34 EPRML	32/34 EPRML	32/34 EPRML	32/34 EPRML	
RELIABILITY/DATA INTEGRITY					
Error Rate					3D Defense System™: No one does more to protect your drive. 3D Data Defense; ECC, Safe Sparing, Continuous Background Defect Scanning 3D Diagnostics; Enhanced S.M.A.R.T. preempts errors. Web-based tools and Sea Tools diagnostic software helps customers identify problem sources.
Recoverable, per bits read	10 per 10 ¹²	10 per 10 ¹²	10 per 10 ¹²	10 per 10 ¹²	
Nonrecoverable, per bits read	1 sector per 10 ¹⁵	1 sector per 10 ¹⁵	1 sector per 10 ¹⁵	1 sector per 10 ¹⁵	
Seek Errors, per seek	10 per 10 ⁸	10 per 10 ⁸	10 per 10 ⁸	10 per 10 ⁸	
ENVIRONMENTAL					
Acoustics, Idle (bels)	3.2	3.2	3.2	3.2	Seagate's sound barrier technology ensures whisper-quiet acoustics. Temperature Sensor warns host when the temperature exceeds limits. 3D Drive Defense's SeaShell brings the non-op shock to over 1,000 G's. G-Force protection increases drive ruggedness and reliability
Temperature: Operating/Nonoperating (°C)	5 to 55,-40 to 70	5 to 55,-40 to 70	5 to 55,-40 to 70	5 to 55,-40 to 70	
Shock: Operating/Nonoperating 2 msec (Gs)	15/250	15/250	15/250	15/250	
Vibration: Operating/Nonoperating <400 Hz (Gs)	1.0/2.5	1.0/2.5	1.0/2.5	1.0/2.5	
POWER REQUIREMENTS					
+12, +5 VDC ±5% (amps)	0.40/0.80	0.40/0.80	0.40/0.80	0.40/0.80	Seagate's experience with the sixth generation Cheetah family of products ensures low power requirements
Power, Idle: SCSI/FC (watts)	9	9	8.5	8.5	
PHYSICAL					
Height (in/mm)	1.0/26.1	1.0/26.1	1.0/26.1	1.0/26.1	Seagate's Customer Service; rated above average to excellent by 95 percent of the 2,000 customers surveyed who used Seagate's service. > Seagate's team brings superior breadth and depth of experience to you. > In the complex world of storage design, support is often the deciding factor.
Width (in/mm)	4.0/101.9	4.0/101.9	4.0/101.9	4.0/101.9	
Depth (in/mm)	5.77/146.7	5.77/146.7	5.77/146.7	5.77/146.7	
Weight (lb/kg)	1.8/0.81	1.8/0.81	1.8/0.81	1.8/0.81	

www.seagate.com ■ 1-800-732-4283; 1-800-SEAGATE



CORPORATE HEADQUARTERS
 ASIA/PACIFIC
 EUROPE, MIDDLE EAST AND AFRICA

Seagate Technology LLC, 920 Disc Drive, Scotts Valley, California, 95066, United States 831-438-6550
 Seagate Technology International Ltd. 151 Lorong Chuan, New Tech Park #06-01, Singapore 556741, 65-488-7200
 Seagate Technology SA 62 bis, avenue André Morizet, 92643 Boulogne-Billancourt Cedex, France 33 1-41 86 10 00

© 2001 Seagate Technology LLC. All rights reserved. Printed in USA. Seagate, Seagate Technology, the Seagate logo, Cheetah, the Cheetah logo, SeaShell, Seagate's Advanced Multidrive System and the 3D Defense System are either registered trademarks or trademarks of Seagate Technology LLC. Other product names are registered trademarks or trademarks of their owners. Seagate reserves the right to change, without notice, product offerings or specifications. (CS1527-1) Publication Number: 1535-002, August, 2001.