

CHEETAH 36XL

HIGH-PERFORMANCE DRIVES WITH CAPACITIES
TARGETED AT MAINSTREAM APPLICATIONS.



ULTRA160 SCSI



10K RPM

The fifth-generation Cheetah 36XL incorporates 36-, 18- and 9-Gbyte capacities, Ultra160 SCSI and faster speeds than ever.

- Formatted capacity up to 36.7 Gbytes
- 15 percent faster than the previous generation
- Average read/write seek times of 5.4/6.2 msec
- Ultra160 SCSI
 - External transfer rate of 160 Mbytes per second
 - “Fairness” to prevent timeouts due to bus access
 - Fully compatible with all SCSI implementations
- Seagate’s Advanced Multidrive System™ (SAMS) reduces effects of rotational vibration generated from multiple drives operating simultaneously in a single cabinet.
- SeaShell™ provides more than 1,000 Gs nonoperating shock protection.

DRIVES WITH HIGH-PERFORMANCE, ULTRA160 SCSI AND CAPACITIES TARGETED AT MAINSTREAM APPLICATIONS



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Seagate's 3D Defense System™ — No One Does More to Protect Your Drives

Drive Defense

- G-Force** protection reduces susceptibility to shock.
- SeaShell** packaging 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.

CHEETAH 36XL	36.7 GB ¹	18.4 GB ¹	9.2 GB ¹	KEY ADVANTAGES
Model Number	ST336705LC/LW	ST318405LC/LW	ST39205LC/LW	LVD, Single-Connector SCSI / Wide SCSI
INTERFACE				
Interface/External Transfer Rate (Mbytes/sec)	Ultra160 SCSI/160	Ultra160 SCSI/160	Ultra160 SCSI/160	
PERFORMANCE				
Spindle Speed (RPM)	10K	10K	10K	
Latency, average (msec)	2.99	2.99	2.99	
Seek Time				
Average read/write (msec)	5.4/6.2	5.4/6.2	5.4/6.2	
Track-to-Track read/write (msec)	1.0/1.5	1.0/1.5	1.0/1.5	
Transfer Rate				
Internal (Mbits/sec)	320 to 490	320 to 490	320 to 490	
Internal Formatted (Mbytes/sec)	29 to 46.6	29 to 46.6	29 to 46.6	15 percent faster than past-generation Cheetahs
Cache, Multisegmented (Mbytes)	4	4	4	
CONFIGURATION/ORGANIZATION				
Discs/Heads	4/8	2/4	1/2	
Sectors per drive, 512 bytes/sector	71,687,370	35,843,670	17,921,835	
Cylinders	19,036	19,036	19,036	
Recording Method PRML	32/34 EPR4	32/34 EPR4	32/34 EPR4	
RELIABILITY/DATA INTEGRITY				
Error Rate				
Recoverable, per bits read	10 per 10 ¹²	10 per 10 ¹²	10 per 10 ¹²	Best reliability rating in the industry.
Nonrecoverable, per sectors read	1 per 10 ¹⁵	1 per 10 ¹⁵	1 per 10 ¹⁵	You're covered with the industry's widest breadth of durability and compatibility testing.
Seek Errors, per seek	10 per 10 ⁶	10 per 10 ⁶	10 per 10 ⁶	
ENVIRONMENTAL				
Acoustics, Idle (bels)	3.8	3.8	3.8	Sound barrier technology for whisper-quiet acoustics
Temperature: Operating/Nonoperating (°C)	5 to 55/-40 to 70	5 to 55/-40 to 70	5 to 55/-40 to 70	Temperature Sensor warns when the drive exceeds heat specifications.
Shock: Operating 11 msec/Nonoperating 2 msec (Gs)	15/250	15/250	15/250	SeaShell provides more than 1,000 Gs nonoperating shock.
Vibration: Operating/Nonoperating 22-350 Hz (Gs)	0.5/2.0	0.5/2.0	0.5/2.0	G-Force Protection increases drive ruggedness.
POWER REQUIREMENTS				
+12/+5 VDC ± 5% (amps)	0.40/0.80	0.35/0.80	0.35/0.80	
Power, Idle SCSI, FC (watts)	9	8.5	8.5	
PHYSICAL				
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)	1.3/0.589	1.3/0.589	1.3/0.589	

1. Capacity calculated as 1 Gbyte = 10⁹ bytes, based on 512 bytes/sector

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