

# Cheetah



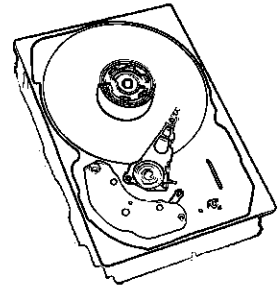
## Industry-leading performance for the most demanding applications, workstations, network file servers and enterprise servers

Industry's highest-performance 10,000-RPM 3.5-inch disc drives

Unsurpassed formatted data-transfer rates of 11.3 to 16.8 Mbytes per second

High-performance Ultra SCSI and Fibre Channel interfaces  
Average seek times as fast as 7.5 msec

Embedded servo provides uninterrupted data transfer for A/V applications



### 8-, 16-bit and Single Connector Ultra SCSI and Fibre Channel Interfaces



**ST34501N**  
**ST34501W**  
**ST34501WD**  
**ST34501WC**  
**ST34501DC**  
**Cheetah 4LP**



**ST34501FC**  
**Cheetah 4LP**



**ST19101N**  
**ST19101W**  
**ST19101WD**  
**ST19101WC**  
**ST19101DC**  
**Cheetah 9**



**ST19101FC**  
**Cheetah 9**

#### Capacity and Interface

Formatted Gbytes (512 bytes/sector) Interface	4.55 Ultra SCSI (8- and 16-bit, SCA)	4.55 Fibre Channel (Dual Port)	9.1 Ultra SCSI (8- and 16-bit, SCA)	9.1 Fibre Channel (Dual Port)
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#### Performance

Internal Transfer Rate, ZBR (Mbits/sec)	122 to 177	122 to 177	122 to 177	122 to 177
Internal Formatted Transfer Rate (Mbytes/sec)	11.3 to 16.8	11.3 to 16.8	11.3 to 16.8	11.3 to 16.8
External Transfer Rate, 8/16 (Mbytes/sec)	20/40	100 per port	20/40	100 per port
Multisegmented Cache (Kbytes)	512 (2,048 opt.)	1,024	512 (2,048 opt.)	1,024
Track-to-Track Seek, Read/Write (msec)	0.78/1.04	0.78/1.04	0.78/1.04	0.78/1.04
Average Seek, Read/Write (msec)	7.5/8.5	7.5/8.5	8/9	8/9
Maximum Seek, Read/Write (msec)	18	19	18	19
Average Latency (msec)	2.99	2.99	2.99	2.99
Spindle Speed (RPM)	10,033	10,033	10,033	10,033

#### Configuration/Organization

Discs/Heads	4/8	4/8	8/16	8/16
Servo	Embedded	Embedded	Embedded	Embedded
Sectors per Drive (512 bytes/sector)	8,890,080	8,890,080	17,839,344	17,839,344
Cylinders	6,526	6,526	6,526	6,526
Recording Method	PRML (0,4,4)	PRML (0,4,4)	PRML (0,4,4)	PRML (0,4,4)

#### Reliability/Data Integrity

MTBF (power-on hours)	1,000,000	1,000,000	1,000,000	1,000,000
Recoverable Read Errors per Bits Read	10 per 10 <sup>11</sup>	10 per 10 <sup>11</sup>	10 per 10 <sup>11</sup>	10 per 10 <sup>11</sup>
Nonrecoverable Read Errors per Bits Read	1 per 10 <sup>14</sup>	1 per 10 <sup>14</sup>	1 per 10 <sup>14</sup>	1 per 10 <sup>14</sup>
Seek Errors (per seek)	10 per 10 <sup>9</sup>	10 per 10 <sup>9</sup>	10 per 10 <sup>9</sup>	10 per 10 <sup>9</sup>
Limited Warranty (years)	5	5	5	5

#### Power Requirements

+12 VDC ±5% (amps typ)	0.82	0.94	1.42	1.6
(amps max)	2.0	3.0	4.0	4.2
+5 VDC ±5% (amps typ)	0.74	1.15	0.74	1.15
Power (Idle watts)	12.0	15.5	20.7	23.2

#### Environmental

Operating Temperature (°C)	5 to 50	5 to 50	5 to 50	5 to 50
Nonoperating Temperature (°C)	-40 to 70	-40 to 70	-40 to 70	-40 to 70

#### Physical

Height (inches/mm)	1.0/25.4	1.0/25.4	1.63/41.4	1.63/41.4
Width (inches/mm)	4.0/101.6	4.0/101.6	4.0/101.6	4.0/101.6
Depth (inches/mm)	5.75/146.1	5.75/146.1	5.75/146.1	5.75/146.1
Weight (lbs/kgs)	1.33/0.60	1.33/0.60	2.25/1.02	2.25/1.02

Capacity calculated with typical sparing. Sparing is user-optional.  
Internal formatted transfer rate calculated with 512 bytes per sector



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