

# barracuda

## 3.5

INCH FAMILY, HALF-HEIGHT

*Fibre Channel Interface*



- *Open, industry-standard interface*
- *Fibre Channel high-performance interface (100 Mbytes per second)*
- *Hot plug Fibre Channel Single Connector Attachment (FCSCA)*
- *Dual-port*
- *Built-in Exclusive-OR (XOR) RAID 5 support*
- *Up to 125 drives per host port supported*
- *Formatted capacity of 4.29 Gbytes*
- *7,200 RPM, average latency of 4.17 msec*
- *5.9 to 9 Mbyte per second peak internal data rate*
- *800,000 hour MTBF*
- *Five-year limited warranty*
- *Average read seek time of 8 msec*
- *Track-to-track read seek time of 0.6 msec*
- *1 Mbyte adaptive cache*
- *Synchronized spindles*

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For additional information, please call 408/438-8111.



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## Fibre Channel Interface



ST15150FC  
Barracuda 4

### Capacity

Unformatted Mbytes	5,062
Formatted Mbytes (512 bytes/sector)*	4,294

### Interface

Fibre Channel  
(dual port)

### Performance

Internal Transfer Rate, ZBR (Mbits/sec)	47.5 to 72
External Transfer Rate (Mbytes/sec)	100
Cache, multisegmented (Kbytes)	1,024
Track-to-Track Seek, Read/Write (msec)	0.6/0.9
Average Seek, Read/Write (msec)	8/9
Maximum Seek, Read/Write (msec)	17/19
Spindle Speed (RPM)	7,200
Average Latency (msec)	4.17

### Configuration/Organization

Discs/Data Surfaces	11/21
Servo Heads	1
Bytes per Track	49,350 to 74,900
Sectors per Drive (512 bytes/sector)	8,388,315
Cylinders	3,711
Recording Method	RLL (1,7)

### Reliability and Data Integrity

MTBF (power on hours)	800,000
MTTR (hrs)	depot
Service Life (yrs)	5
Recoverable Read Errors per Bits Read	10 per 10 <sup>11</sup>
Nonrecoverable Read Errors per Bits Read	1 per 10 <sup>14</sup>
Seek Errors (per seek)	10 per 10 <sup>8</sup>
Auto-Park	yes
Limited Warranty (yrs)	5

### Power Requirements

+12 VDC ±5% (amps typ)	0.75
(amps max)	2.2
+5 VDC ±5% (amps)	1.65
Power (Idle watts)	17

### Environmental

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

### Physical

Height (inches/mm)	1.63/41.4
Width (inches/mm)	4/101.6
Depth (inches/mm)	5.97/151.6
Weight (lb/kg)	2.3/1.04

\* Capacity calculated with typical sparing. Sparing is user optional.

Fibre Channel is the first truly open industry-standard serial interface for the high-performance community. Fibre Channel supports the industry-standard SCSI protocol providing a significant saving in SCSI software development while the 100 Mbyte per second data transfer rate provides a dramatic increase in I/O performance. Fibre Channel is the latest addition to the field-proven and highest performance 7,200 RPM 4Gbyte Barracuda family.

An impressive list of features — 100 Mbyte per second interface data transfer rate; hot plug Fibre Channel Single Connector Attachment (FCSCA); dual-porting for fault tolerance and superior performance; high connectivity; built-in hardware Exclusive-OR (XOR); SCSI command support for RAID 5 implementations — gives the industry-standard Fibre Channel interface unmatched performance for application platforms such as network file servers, disc arrays, workstations, mainframes and supercomputers.