## 51.3 MByte 3½" Winchester Disk Drive

8051S

The 8051S represents MiniScribe's solution for the next generation of higher performance computers. Featuring 42.0 MBytes of formatted storage, the 8051S incorporates an on-board Small Computer System Interface (SCSI) controller. A unique rotary actuator provides a fast 28 msec. average access speed to maximize performance.

The single printed circuit board utilizes surface mount technology to increase reliability and decrease power consumption to a very cool 8 watts. The 8051S supports

the common command set as well as other options. Defect handling and error management is transparent to the user.

Like all MiniScribe products, the 8051S undergoes a rigorous testing and burn in process to insure the highest reliability.

The MiniScribe line of 3½-inch and 5¼-inch Winchester disk drives begin at 12.75 MBytes and extend to high capacity/high performance models.

• Fast 28 msec. average access speed

- On-board SCSI controller
- Rotary voice coil actuator
- Host transfer rate up to 1.0 MBytes/sec
- Cool 8 watts avg. power consumption
- Single printed circuit board for greater reliability
- Head shipping zone





## 3½" SCSI Winchester Disk Drive Specifications

Capacity Unformatted	
Per Drive (MBytes)	51.3
Per Track (Bytes)	17,220
Capacity Formatted	
(including alternatives)	
Per Drive (MBytes)	42.0
Per Track (Bytes)	14,336
Per Sector (Bytes)	512
Sectors Per Track	28
Functional	
Disks	2
R/W Heads	4
Cylinders	745
Total Data Tracks	2,980
Track Density (tpi)	1,109
Recording Density (bpi)	23,202
Areal Density (Mbits/sq.in.)	25.73
Rotational Speed (RPM)	3,484
Data Transfer Rate	
Device (Mbits per second)	8.0
Host (MBytes per second)	0 to 1.0
Access Time	
(including settling)	
Average (msec.)	28
Track-to-track (msec.)	5
Maximum (msec.)	60
Latency (average, msec.)	8.61
Interface	SCSI
Reliability	
MTBF	30,000 hours
PM	None
MTTR	30 minutes
Component Design Life	5 years
Error Rates	40
Soft Read Errors	1 per 10 <sup>10</sup> bits
Hard Read Errors	1 per 10 bits
Seek Errors	1 per 10 <sup>6</sup> seeks

0.5 amps typical 0.5 amps typical 2.0 amps	
	8.0 watts avg.
	40°F to 122°F (5°C to 50°C)
8% to 80%	
78°F (26°C)	
1.625 in. (41.3 mm)	
4.00 in. (101.6 mm)	
5.75 in. (164 mm)	
1.43 lbs. (.65 kg)	

Features and specifications subject to change without notice.

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## 8051S

MiniScribe Corporation 1861 Lefthand Circle Longmont, CO 80501-6798 (303) 651-6000 (Telex) 216174 (miniur)

MiniScribe Sales Offices Cupertino, CA (408) 725-2929 Fremont, CA (415) 656-9941 Garden Grove, CA (714) 895-1010 Atlanta, GA (404) 455-1311 Framingham, MA (617) 875-2111 Chester, NJ (201) 879-2882 Irving, TX (214) 550-7668 Itasca, IL (312) 773-7350

Far East Sales Hong Kong Tel. 852-5-8730811 (Fax) 852-5-8730353

Taiwan Tel. 886-(2) 776-3129 (Fax) 886-(2) 751-2003

Singapore Tel. 65-459-8055 (Fax) 65-454-7685

European Operations MiniScribe GmbH Eschborn, Germany Tel. 49-6196-481608 (Telex) 841-418-368 (Fax) 49-6196-45616

U.S. Distributors Arrow Electronics, Inc. (800) 323-4373 Hamilton/Avnet (800) 442-6458

