8051A

- 42.0 MBytes formatted storage
- 28 msec. average access time.
- Automatic power down to shipping zone and head lock.
- Embedded servo system increases data reliability.
- Rotary voice coil positioning.
- Integrated drive and AT electronics on a single printed circuit board.
- 40 pin host interface connector.
- 1:1 interleave support maximizes system throughput.

The MiniScribe model 8051A is MiniScribe's solution for the new generation of AT* compatible, portable and desk top computer systems.

The 8051A is a 3½-inch 42 MByte drive with an on-board AT controller. The integration of the controller onto the drive increases system reliability and lowers overall system cost.

A rotary voice coil is utilized to achieve a fast 28 msec. average access time reliably. An embedded servo system is used to maximize data reliability. The embedded servo system significantly reduces mispositioning due to thermal off track.

The 8051A features automatic park and lockdown at a dedicated landing zone.

Like all MiniScribe products, the 8051A 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.

* AT is a trademark of IBM Corp.





3½" AT Winchester Disk Drive Specifications

Capacity Unformatted	51.3 17,220
Per Drive (MBytes) Per Track (Bytes)	
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)	up to 4.0
Access Time	
(including settling)	
Average (msec.)	28
Track-to-track (msec.)	5
Maximum (msec.)	60
Latency (average, msec.)	8.61
Interface	AT
Reliability	
MTBF	30,000 hours
PM	None
MTTR	30 minutes
Component Design Life	5 years
Error Rates	
Soft Read Errors	1 per 10 ¹⁰ bits
Hard Read Errors	1 per 10 ¹² bits
Tidia Tidad Elioto	1 per 10 ⁶ seeks

DC Power Requirements	
+ 5 VDC ±5%	0.5 amps typica
+12 VDC ±5%	0.5 amps typica
Max. Starting (5 sec.)	2.0 amps
Power Dissipation	8.0 watts avg.
Environmental Limits	
Ambient Temperature	40°F to 122°F (5°C to 50°C)
Relative Humidity	8% to 80%
Maximum Wet Bulb	78°F (26°C)
Physical	o mara eros
Height	1.625 in.
	(41.3 mm)
Width	4.00 in.
	(101.6 mm)
Depth	5.75 in.
	(164 mm) 1.43 lbs.
Weight	1.43 108.

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8051A

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

