50.5 MBytes 51/4" Half-Height Disk Drive

3650

 Based on MiniScribe's 3000 family of $5\frac{1}{4}$ -inch half-height disk drives. Field-proven rack and pinion actuator provides positioning accuracy throughout temperature extremes

- 50.5 MByte (unformatted)
- 61 msec. average access time
- Tri-colored LED
- 25,000 hours MTBF

Responding to the demand for a higher capacity, cost-effective, 51/4-inch half-height disk drive with increased performance, MiniScribe has met the challenge with its new model 3650. Based on MiniScribe's rugged 3000 family of 51/4-inch half-height Winchester disk drives, the 3650 is an innovative three disk, six head, 50.5 MByte configuration with an average access time of 61 milliseconds.

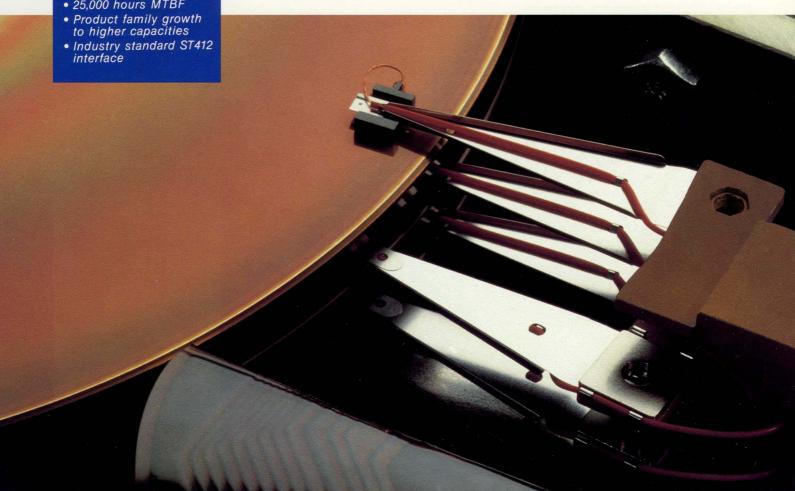
The 3650 features a tri-colored LED which allows the operator to view various operational phases of the disk drive by displaying a green light during normal operation, a blinking red light for error codes and an amber light while the heads are parked at the landing zone.

Like other MiniScribe products, the 3650 incorporates the company's high standards of quality and innovation. The 3650 utilizes MiniScribe's field-proven rack and pinion linear actuator system which provides positioning accuracy throughout temperature

extremes as well as rugged resistance to shock and vibration. In addition, the drive incorporates the industry standard ST412/506 interface.

With planned enhancements to higher storage capacities, the 3650 demonstrates MiniScribe's technical leadership by delivering one of the most favorable cost per megabyte solutions for your current and future storage requirements.

In addition to the 3650, MiniScribe produces a complete line of 31/2-inch and 51/4-inch Winchester disk drives which begins at 12.75 MBytes, extends to high capacity, high performance models, and includes a variety of standard, intelligent and custom interfaces.





3650 Specifications

Capacity Unformatted	
Per Drive (MBytes) Per Track (Bytes)	50.5 10,416
Per Drive (MBytes)	42.25
Per Track (Bytes)	8,704
Per Sector (Bytes)	512
Sectors per Track	17
Functional	Management of the second
Disks	3
R/W Heads	6
Cylinders	809
Total Data Tracks	4,854
Track Density (tpi)	763
Recording Density (bpi)	10,124
Areal Density (Mbits/sq.in.)	7.72
Rotational Speed (RPM)	3,600
Data Transfer Rate	
(Mbits per Second)	5.0
Recording Method	MFM
Access Time (incl. settlin	g)
Average (msec.)	61
Track-to-track (msec.)	15
Maximum (msec.)	132
Latency (average, msec.)	8.33
Interface	ST412
Reliability	
MTBF	25,000 hours.
PM	None
MTTR	30 minutes
Component Design Life	5 years

Error Rates	
Soft Read Errors	1 in 10 ¹⁰ bits
	transferred
Hard Read Errors	1 in 10 ¹² bits
	transferred
Seek Errors	1 per 10 ⁶ seeks
DC Power Requiremen	its
+5V DC +/-5%	0.5 amps typical
+12V DC +/-5%	1.3 amps typical
Max. Starting (22 sec.)	3.5 amps
Power Dissipation	18.1 watts
Environmental Limits	- Very de parters
Ambient Temp.	40°F - 122°F
In the second	(4°C to 50°C)
Relative Humidity	8% - 80%
Marrian una Mat Dulle	70 95 (00 90)
Maximum Wet Bulb	78°F (26°C)

Weight 3.1 lbs. (1.4 kg.)

Features and specifications subject to change without notice.

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1.625 in. (41.3 mm)

5.75 in. (146 mm)

8.00 in. (203 mm)

Physical

Height

Width

Depth

3650

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