

MAY

Half-Height 5¹/₄" Winchester Disk Drive 6.4 or 12.8 MBytes unformatted storage capacity

The MiniScribe III is a half-height drive series providing the popular 6.4 and 12.8 megabyte capacities in half the space of full-size 5¹/₄-inch Winchester disk drives. Where size, weight and power are at a premium in today's systems, it offers the OEM a drive that is simple, reliable and economical.

MiniScribe III delivers 85 or 155 milliseconds average access time. And it offers many innovative features that will appeal to the OEM system designer.

- Field proven rack-and-pinion motion translator allows an increased number of recording tracks, yet retains the full-step holding torque and positioning repeatability of the stepper-motor actuator.
- IC preamplifier, within the sealed enclosure and in close proximity to the read/write heads, assures data reliability in electrically noisy environments.
- Efficient temperature compensation system (patent pending) enhances the positioning repeatability over the operating temperature range.
- Unique breather filter arrangement (patent pending), plus a recirculating air system, guarantees a clean pressurized operating environment to the heads and disks.
- Microprocessor-controlled buffered seek takes full advantage of the stepper motor high-speed slew characteristics. This results in a fast 85 or 155 millisecond average access time.

• Crystal control assures constant spin-motor speed, regardless of temperature variations and effects of motor life, and eliminates all adjustments.

MiniScribe

- Microprocessor-controlled internal self diagnostics provide fast performance verification.
- A head shipping zone in a nondata area of the disk, coupled with a carriage locking feature, prevents disk damage during transport.
- ST412 interface compatibility, coupled with voltage requirements identical to the 5¼" floppy drive, simplify system integration.
- Slim-line package is ½ height of standard 5¼" floppy drive, providing volume efficiency.
- Rugged media and shock mounting has been incorporated to withstand severe handling encountered by today's smaller desk top and portable systems.

MiniScribe III

Storage Capacity-Unformatted Per Drive Per Track

Storage Capacity-Formatted Per Drive Per Track Per Sector Sectors per Track

Data Tracks

Recording Density Areal Linear (MFM) Radial

Cylinders

Data Transfer Rate

Access Time Average Latency Seek Time Track-to-Track Average Maximum

MTBF

MTTR Preventive Maintenance Data Reliability

Typical Power Consumption Input Power Required

Operating Temperature Relative Humidity

Physical Size

Weight

Model 3006

6.4 MBytes 10,416 Bytes

5.0 MBytes 8,192 Bytes 256 Bytes 32

612 (1 disk)

 4.87×10^6 bits per square inch 8290 bpi 588 tpi

306

5.0 Mbits per second

8.33 msec

3.0 msec85 msec (including settling)205 msec (including settling)

GENERAL SPECIFICATIONS

10,000 hours (continuous operation) 30 minutes None 1 soft error in 10^{10} bits read 1 permanent error in 10^{12} bits read 1 seek error in 10^6 seeks 17 watts + $12VDC \pm 5\%$, 1.1 amps max 2.5 amps start (20 seconds) + $5VDC \pm 5\%$, 1.5 amp max $40^{\circ}F$ ($4^{\circ}C$) to $115^{\circ}F$ ($46^{\circ}C$) 8% to 80%, non condensing 78°F ($26^{\circ}C$) maximum wet bulb 1.625 in, H × 5.75 in, W × 8.00 in, D

3.5 pounds

3/83—MIII—R1

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1871 Lefthand Circle Longmont, Colorado 80501 (303) 651-6000 (TLX) 216-174 (MINI-UR)

Model 3012

12.8 MBytes 10,416 Bytes

10.0 MBytes 8,192 Bytes 256 Bytes 32

1224 (1 disk)

 5.9×10^6 bits per square inch 10000 bpi 588 tpi

612

5.0 Mbits per second

8.33 msec

3.0 msec 155 msec (including settling) 420 msec (including settling)