



Half Height 5.25" Winchester Disk Drive

MiniScribe, the leader in half highs, introduces the 3425. Featuring 25 MBytes of storage capacity on just two disks, the 3425 is an engineering innovation that provides the OEM with simple yet reliable and economical data storage, all in half the height of standard 5.25 inch Winchester disk drives.

To ensure that OEM's are getting the highest quality and most reliable 5.25 inch Winchester available, MiniScribe disk drives must pass 96 continuous hours of extensive performance and quality control tests. That's the MiniScribe standard of excellence.

Features:

- Proven rack and pinion actuator for positioning accuracy over temperature extremes.
- IC preamplifier, within the sealed enclosure, assures data reliability in electrically noisy environments.
- Microprocessor-controlled internal self diagnostics provide fast performance verification.
- Industry standard interface.
- Heat dissipation of only 14 watts.
- Patented breather filter, coupled with a recirculating filter, guarantees a clean and pressurized environment to heads and disk.
- Dedicated shipping zone in non-data area, plus durable shock mounting, provides outstanding protection against severe handling.
- Single PC board increases reliability through reduced component count and fewer interconnections.



6/26/84

Half Height 5.25" Winchester Disk Drive

Specifications

Capacity Unformatted

Per Drive	25.5 MBytes
Per Track	10,416 Bytes

Capacity Formatted

Per Drive	20.0 MBytes
Per Track	8,192 Bytes
Per Sector	256 Bytes
Sectors Per Track	32

Functional

Rotational Speed	3600 RPM
Recording Density	10,030 bpi
Areal Density	5.9 Mbits/sq. in.
Track Density	588 tpi
Tracks	2,448
Cylinders	612
R/W Heads	4
Disks	2

Access Time (including settling)

Average	85 msec.
Track-To-Track	15 msec.
Latency (average)	8.33 msec.

Reliability

MTBF	10,000 hours
PM	None
MTTR	30 minutes

Error Rates

Soft Read Errors	1 per 10 ¹⁰ bits read
Hard Read Errors	1 per 10 ¹² bits read
Seek Errors	1 per 10 ⁶ seeks

DC Power Requirements

+ 5 V DC ± 5%	.4 amps typical
+ 12 V DC ± 5%	1.0 amps typical
Max. Starting (10 sec.)	3.5 amps

Environmental Limits

Ambient Temperatures	50°F to 122°F (10°C to 50°C)
Relative Humidity	8% to 80%
Maximum Wet Bulb	78°F (26°C)

Heat Dissipation

14 watts

Physical

Height	1.625 in.
Width	5.75 in.
Depth	8.00 in.
Weight	4.5 pounds

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