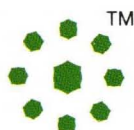


# Believe it!

## 3.5 inch Half-Height Disk Drives

HIGH PERFORMANCE 44 to 110 Mbyte CAPACITIES

*FASTER 18ms*

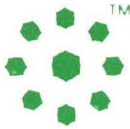


**Microscience**<sup>TM</sup>

- 4ms track to track access
- 18ms average positioning time
- Closed loop dedicated servo system
- Voice coil technology
- Single PCB with SMD-VLSI circuitry
- ST506, SCSI, ESDI, AT choices
- Patented magnetic actuator lock
- Dedicated head landing zone
- Dynamic spindle brake
- Low power consumption



Microscience New 3.5 inch Disk Drives		
Model	Interface	Capacity
4050	ST506	44Mbytes
5100	ESDI	110Mbytes
6100	SCSI	110Mbytes
7100	AT	110Mbytes
Formatted		



# Microscience™

## 3.5 inch High Performance Winchester Disk Drive **SPECIFICATIONS**

Model No.	4050	4060	4070	4090	5100	6100	7100	Model No.
<b>Capacity Unformatted</b>	53.3 MB	80.0 MB	74.2 MB	111.3 MB	124.6 MB	124.6 MB	124.6 MB	<b>Capacity Unformatted</b>
<b>Capacity Formatted</b>	44.5 MB	66.8 MB	62.3 MB	93.4 MB	110.3 MB	110.3 MB	110.3 MB	<b>Capacity Formatted</b>
Per sector	512 bytes	512 bytes	512 bytes	512 bytes	512 bytes	512 bytes	512 bytes	Per sector
Sectors per track	17	26	17	26	36	36	36	Sectors per track
<b>Data Transfer Rate</b>	5 Mb/s	7.5 Mb/s	5 Mb/s	7.5 Mb/s	10 Mb/s	10 Mb/s	10 Mb/s	<b>Data Transfer Rate</b>
<b>Seek Time (incl. settling)</b>								<b>SeekTime (incl. settling)</b>
Track to track	4 ms	4 ms	4 ms	4 ms	4 ms	4 ms	4 ms	Track to track
Average	18 ms	18 ms	18 ms	18 ms	18 ms	18 ms	18 ms	Average
Maximum	40 ms	40 ms	40 ms	40 ms	40 ms	40 ms	40 ms	Maximum
<b>Functional Specifications</b>								<b>Functional Specifications</b>
Recording density	14,445 bpi	21,668 bpi	14,445 bpi	21,668 bpi	25,406 bpi	25,406 bpi	25,406 bpi	Recording density
Track density	1,250 tpi	1,250 tpi	1,250 tpi	1,250 tpi	1,250 tpi	1,250 tpi	1,250 tpi	Track density
Cylinders per surface	1,024	1,024	1,024	1,024	855	855	855	Cylinders per surface
Platters	3	3	4	4	4	4	4	Platters
Read write heads	5	5	7	7	7	7	7	Read write heads
Servo heads	1	1	1	1	1	1	1	Servo heads
Recording code	MFM	RLL (2,7)	MFM	RLL (2,7)	RLL (2,7)	RLL (2,7)	RLL (2,7)	Recording code
Typical power dissipation	10 watts	10 watts	11 watts	11 watts	11 watts	11 watts	11 watts	Typical power dissipation
<b>Interface</b>	ST506/412	ST506/412	ST506/412	ST506/412	ESDI	SCSI	AT	<b>Interface</b>

### GENERAL SPECIFICATIONS:

<b>Reliability Specifications</b> MTBF (typical usage) 36,000 poh Preventive maintenance none Component life 5 years Error rates Soft read errors 1 in 10 <sup>10</sup> bit read Hard read errors 1 in 10 <sup>12</sup> bit read Seek errors 1 in 10 <sup>6</sup> seeks	<b>Environmental Limits (operating)</b> Ambient temperature 40° to 122°F (5° to 50°C) Relative humidity 8% to 80% non-condensing Wet bulb, maximum 78°F non-condensing (25.5°C) Altitude 0 to 10,000 ft. Vibration 5 to 500 Hz, 1.0 G Shock 10 G, 11 ms	<b>Mechanical Dimensions</b> Height 1.625 in. Width 4.000 in. Length 5.750 in. Weight 2.0 lb.
<b>Power Requirements</b> DC voltage + 12 volts ± 5% @ 0.6A typical 2.0A starting + 5 volts ± 5% @ 0.5A typical	<b>Environmental Limits (non-operating)</b> Ambient temperature -40° to 140°F (-40° to 60°C) Relative humidity 8% to 80% non-condensing Wet bulb, maximum 78°F non-condensing (25.5°C) Altitude -1,000 to 40,000 ft. Vibration 5 to 500 Hz, 2.0 G Shock 60 G, 11 ms	<b>Safety Approvals</b> UL, CSA, TUV
<b>Average Latency</b> 8.33 ms	<b>DISTRIBUTOR:</b>	

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