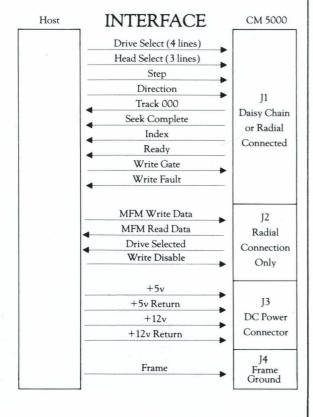
CM 5640 disk drive, product information. The Computer Memories series of Winchester technology disk drives offer the highest storage capacity currently available in a minifloppy size package. The CM 5640, at 40 Mbytes, offers the lowest cost/Mbyte in its capacity range. By means of a combination of Winchester technology and proven design techniques, the OEM is assured of the ultimate in quality and reliability.

In order to ease system integration, the CM 5640 has the same physical dimensions and mounting hole locations as a standard 5½" floppy disk drive. DC voltage requirements are also the same as a mini-floppy drive thus enabling the use of a single power supply for both types of drives.

The high capacities of the CM 5640 are achieved by the utilization of a closed loop servo positioning system, on-board microprocessor, and manganese-zinc heads—unique in such a small device. The combination of the swing-arm actuator, associated electronics, and head allow the CM 5640 to achieve a track density of 690 TPI and bit density of 9650 BPI.



CM 5640 Specifications

Performance Specifications:

Capacity

Unformatted		
Per Drive	40 Mbytes	
Per Surface	6.67 Mbytes	
Per Track	10.4 Kbytes	
Formatted		
Per Drive	31.5 Mbytes	
Per Surface	5.24 Mbytes	
Per Track	8.2 Kbytes	
Per Sector	256 bytes	
Sectors/Track	32	
Transfer Rate	5.00 Mbits/sec	
Average Seek Time	40 msec	
Average Latency	8.3 msec	

Functional Specifications:

Rotational Speed	3,600 rpm
Recording Density	9,650 bpi
Flux Density	9,650 fci
Track Density	690 tpi
Cylinders	640
Tracks	3840
R/W Heads	6
Disks	3

Physical Specifications:

Environmental Limits

Ambient Temperature = 50° F to 115° F (10° C to 46° C)	
Relative Humidity $= 8\%$ to 80%	
DC Power Requirements	1
+12 VDC±10% 2.0A typical, 3.5A max	
+5 VDC ±5% 0.9A typical, 1.0A max	

Mechanical Dimensions:

TTICCIONI	Tricerations.	
Height	= 3.25 in. (82.6 mm)	
Width	= 5.75 in. (146.1 mm)	
Depth	= 8.00 in. (203 mm)	
Weight	= 5 lbs. (2.3 Kg)	
Heat Dissi	pation = 100BTU/hr. typical (28.5 watts)	

Reliability Specifications:

Trees of the property of the p		
MTBF: 8000 POH	typical usage	
PM: Not required		
MTTR: 30 minute	s	
Component Life: 5	years	
Error Rates:		
Soft Read Errors:	1 per 1010 bits read	
Hard Read Errors	: 1 per 1012 bits read	
Seek Errors:	1 per 10 ⁶ seeks	



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