

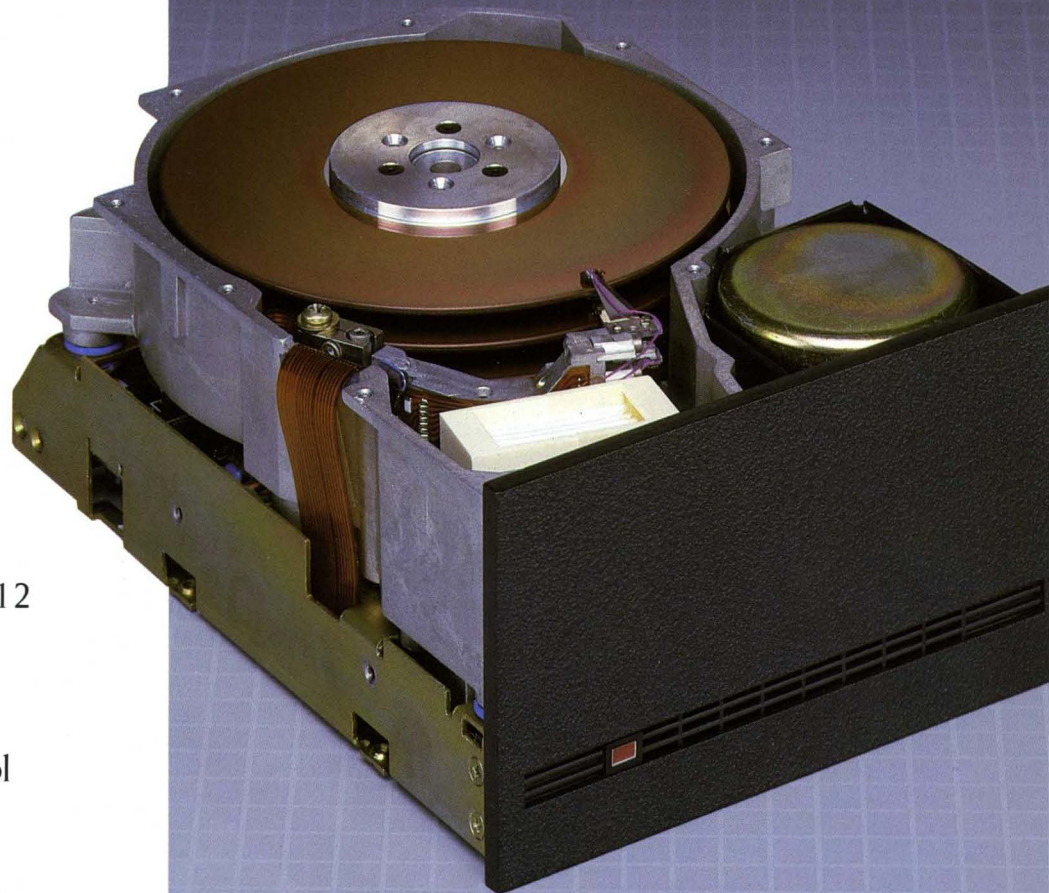


85 Megabyte

5¼" Winchester Disk Drive

CM 7885 FEATURES:

- Capacity of 85.3 megabytes unformatted
- 30 millisecond average access time
- Closed loop servo positioner
- Proven Winchester technology
- Identical mounting to 5¼" floppy drives
- Industry standard ST 506/412 interface
- Internal microprocessor
- Step-pulse buffering
- Head velocity profile control
- Optimized temperature compensation
- High output, high resolution heads
- Parking zone
- Head locking mechanism
- Read/write preamplifier within the head disk assembly



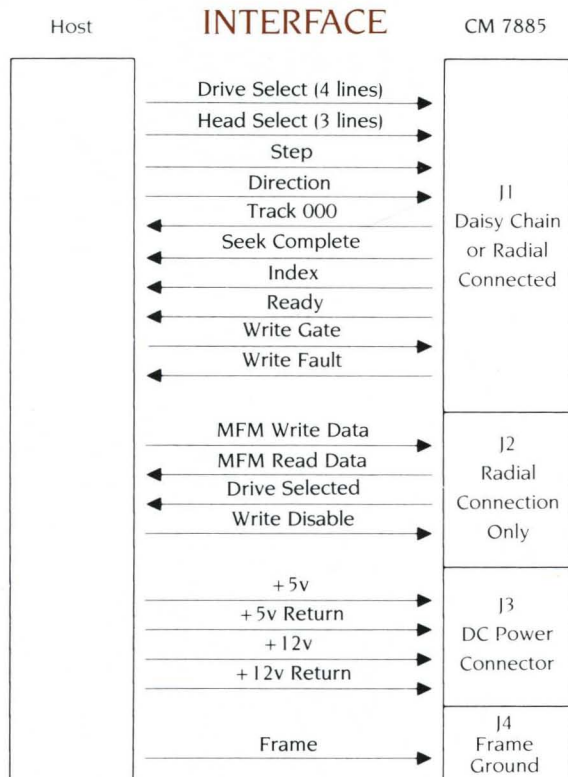
CM 7000 SERIES

CM 7885 disk drive product information

The Computer Memories CM 7885 Winchester disk drive offers 85 Mbytes of unformatted storage with high performance positioning providing 30 millisecond average access. The intelligent integration of Winchester technology with solid and proven design techniques assures the OEM the ultimate in quality and reliability, thus profitability.

System integration is simplified because the CM 7885 has the identical physical dimensions and mounting hole locations as a standard 5¼" inch floppy disk drive. DC voltage requirements are also the same as a mini-floppy drive, thus permitting the use of the same power supplies for both types of drives.

The exceptionally high capacity, performance and features of the CM 7885 are achieved through the use of a closed loop servo positioning system, on-board microprocessor, step-pulse buffering, head velocity profile control, mini-monolithic manganese zinc heads, parking zone, head locking mechanism and associated electronics as well as innovative mechanical design. Noise immunity is enhanced by incorporating a read/write amplifier in the HDA. Utilization of a swing-arm actuator used in concert with the appropriate electronics and head configuration achieves a track density of 1173 tpi.



CM 7885

Performance Specifications:

Capacity:	CM 7885
Unformatted:	
Per Drive	85.3 Mbytes
Per Surface	10.67 Mbytes
Per Track	10.4 Kbytes
Formatted:	
Per Drive	67.1 Mbytes
Per Surface	8.39 Mbytes
Per Track	8.2 Kbytes
Per Sector (32 sectors)	256 bytes
Density:	
Recording Density	9275 bpi
Track Density	1173 tpi
Cylinders	1024
Sectors/Track	32
Tracks	8192
R/W Heads	8
Disks	4

Functional Specifications:

Rotational Speed	3573 rpm
Transfer Rate	5.00 Mbits/sec
Access Time (includes settle time)	
Track to Track	10 msec
Average	30 msec
Maximum	60 msec
Average Latency	8.3 msec

Physical Specifications:

Environmental Limits	
Ambient Temperature	50°F to 115°F (10°C to 46°C)
Relative Humidity	8% to 80%
Temperature Variation	18°F (10°C) hour
Altitude	10,000 ft. (3050cm)

DC Voltage:

+5VDC ± 5% .9A typical, 1A max
+12VDC ± 5% 3A typical, 4A max

Mechanical Dimensions:

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)

Reliability Specifications:

MTBF:	17,000 POH typical usage
PM:	not required
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
Interface	ST/506/412

Computer Memories reserves the right to change specifications without notice.



Post Office Box 2740
9216 Eton Avenue, Chatsworth, California 91311
Telephone (818) 709-6445 TWX: 910 494-4834