

TEXT,C,55
 CONNER PERIPHERALS INC
 CP-3200F SPECIFICATION SUMMARY

High Performance, 3.5-inch Disk Drives.
 212 Mbytes Formatted Capacity.

KEY FEATURES:

- Designed primarily for high-end desktop computers
- Sub-16 msec average seek time
- Low 4.2 watt typical power dissipation
- Half-height form factor
- PC/AT or SCSI interface

GENERAL:

Embedded Controller/Interface	SCSI
Capacity (Formatted)	212.6 MB

PHYSICAL CONFIGURATION:

Actuator type	Rotary Voice-coil
Number of Disks	4
Data Surfaces	8
Data Heads	8
Servo	Embedded
Tracks per Surface	1366
Track Density	1700 TPI
Track Capacity (formatted)	19,456 bytes
Bytes per Block	512
Blocks per Drive	415,264
Sectors per Track	38

PERFORMANCE:

Seek Times (*)	
Track to Track	5 msec
Average	Sub-16msec **
Maximum	35 msec
Average Latency	8.61 msec
Rotation Speed (+/-1%)	3485 RPM
Controller Overhead	1 msec
Data Transfer Rate	
To/from Media	1.5 MB/sec
Data Transfer Rate	
To/from Buffer	5.0 MB/sec
Start Time - Power Up (0-3485 RPM)	
Typical	15 sec
Maximum	20 sec
Start Time - Power Down	
Typical	15 sec

Maximum	20 sec
Start/stop Cycles	10,000 min
Interleave	1:1
Buffer Size	64K

* = At nominal DC input voltages

**= Average seek time is determined by dividing the total time required to seek between all possible ordered pairs of track addresses by the total number of these ordered pairs.

READ/WRITE:

Recording Method	1,7 RLL code
Recording Density - ID	31,800 BPI
Flux Density - ID (flux reversals per inch)	23,850

POWER REQUIREMENTS

(PC/AT interface typical):

+12VDC+/-5% POWER

R/W Mode	400 ma	4.2W
Seek Mode	400 ma	2.8W
Idle Mode	250 ma	2.0W
Spin-up Mode	2.0 amp max	n/a

PHYSICAL CHARACTERISTICS:

Physical Dimensions	Height	1.65" (41.3mm)
	Length	5.75" (146.1mm)
	Width	4.00" (101.6mm)
	Weight	2.0lbs (0.90kg)

ENVIRONMENTAL CHARACTERISTICS:

Temperature	
Operating	5oC to 55oC
Non-Operating	-40oC to 60oC
Thermal Gradient (maximum)	20oC per hour
Humidity (non-condensing)	
Operating	8% to 80%
Non-operating	8% to 80%
Maximum Wet Bulb	26oC
Altitude (relative to sea level)	
Operating	-200 to 10,000 feet
Non-operating (max.)	40,000 feet

RELIABILITY AND MAINTENANCE:

MTBF (POH)	>150,000 hrs
MTTR (typical)	10 minutes
Preventative Maintenance	None
Component Design Life	5 years
Data Reliability	<1 nonrec- overable error in 1013 bits read

SHOCK AND VIBRATION:

Shock - 1/2 sine pulse

Operating Shock	5 Gs WNRE
Non-operating Shock	50 Gs

Vibration - swept sine, 1 octave per minute

Operating Vibration

5 - 27 Hz (double amplitude)	.010"
28 - 500 Hz (peak)	.5 Gs WNRE

Non-Operating Vibration

5 - 62 Hz (double amplitude)	0.020"
63 - 500 Hz (peak)	4 Gs

WNRE = Without Non-Recoverable Errors

MAGNETIC FIELD:

The externally induced magnetic flux density may not exceed 6 gauss as measured at the disk surface (0-700 Khz).

ACOUSTIC NOISE:

Acoustic Sound Pressure (max)	40 dBA at 1m
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