TEXT,C,55
CONNER PERIPHERALS INC - CP-30064H

KEY FEATURES:

- Ideal for mid-range desktp computers
- Sub-19 msec average seek time
- 32 K buffer
- Uses only 2.8 watts of power
- Weighs just 1.3 pounds
- Patented one-inch high design
- PC/AT/EISA interface

GENERAL:

Embedded Controller/Interface	PC/AT/EISA
Capacity (Formatted)	60 MB

PHYSICAL CONFIGURATION:

Actuator type	Rotary voice-coil
Number of Disks	1
Data Surfaces	2
Data Heads	2
Servo	Embedded
Tracks per Surface	1524
Track Density	1850TPI
Track Capacity (formatted)	19,968 bytes
Bytes per Block	512
Blocks per Drive	118,716
Sectors per Track	39

PERFORMANCE:

Seek Times (*)	
Track to Track	8 msec
Average	sub-19 msec**
Maximum	35 msec
Average Latency	8.8 msec
Rotation Speed (+/-1%)	3399 RPM
Controller Overhead	1 msec
Data Transfer Rate	
To/from Media	1.5 MB/sec
Data Transfer Rate	
To/from Buffer	4.0 MB/sec
Start Time - Power Up (0-Ready)	
Typical	15 sec
Maximum	20 sec
Stop Time - Power Down	
Typical	15 sec
Maximum	20 sec

Start/stop Cycles	20,000 min
Interleave	1:1
Buffer Size	32K

* = 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	1,7RLL code
Recording Density	33,184 BPI
Flux Density - ID (flux reversals per inch)	24,888

POWER REQUIREMENTS (typical):

	+12VDC	+5VDC +/-5%	POWER
R/W Mode	200ma	280ma	3.8W
Seek Mode	260ma	150ma	3.9W
Idle Mode	175ma	150ma	2.8W
Spin-up Mode	1100ma	380ma	n/a

PHYSICAL CHARACTERISTICS:

Physical Dimensions	Height 1.00" (25.4mm)
	Length 5.75" (146.1mm)
	Width 4.00" (101.6 mm)
	Weight 1.3lbs (.59kg)

ENVIRONMENTAL CHARACTERISTICS:

Temperature	
Operating	5oC to 55oC
Non-Operating	-40oC to 60oC
Thermal Gradient	20oC per hour maximum
Humidity	
Operating	8% to 80% non-condensing
Non-operating	8% to 80% non-condensing
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	In excess of 150,000 hours (POH)
MTTR	10 minutes typical

Preventative Maintenance	None
Component Design Life	5 years
Data Reliability	<1 non-recoverable error in 1012 bits read

SHOCK AND VIBRATION:

Shock	1/2 sine pulse,11 msec duration
Vibration	Swept sine, 1/2 octave per minute
Non-operating Shock	75 G's
Non-Operating Vibration	
5 - 62 Hz	.020" (double amplitude)
63 - 500 Hz	4 G's (peak)
Operating Shock, without non-recoverable errors	5 G's
Operating Vibration, without non-recoverable errors	
5 - 27 Hz	.010" (double amplitude)
28 - 500 Hz	.50 G's (peak)

MAGNETIC FIELD:

The externally induced magnetic flux density may not exceed 6 gauss as measured at the disk surface (DC - 1.5 MHz).

ACOUSTIC NOISE:

Acoustic Sound Pressure