

TEXT,C,55
 CONNER PERIPHERALS INC - HOPI SERIES
 CP-30064 SPECIFICATION SUMMARY

Low-profile 3.5-inch Disk Drives.
 60 Mbytes Formatted Capacity.

KEY FEATURES:

- Designed for desktop and laptop computers
- Sub-19 msec average seek time
- Uses only 2.8 watts of power
- Patented one-inch high design
- PC/AT/EISA, MCA or SCSI 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	1850 TPI
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-19msec **
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 (0-3399 RPM)	
Typical	15 sec
Maximum	20 sec
Start Time - Power Down	
Typical	15 sec

Maximum	20 sec
Start/stop Cycles	40,000 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	33,184 BPI
Flux Density - ID (flux reversals per inch)	24,888

POWER REQUIREMENTS

(PC/AT/EISA interface typical):

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

PHYSICAL CHARACTERISTICS:

Physical Dimensions	Height	1.00" (25.4mm)
	Length	5.75" (146.1mm)
	Width	4.00" (101.6mm)
	Weight	1.3lbs (0.59kg)

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 1012 bits read

SHOCK AND VIBRATION:

Shock - 1/2 sine pulse, 11 msec duration

Operating Shock	5 Gs WNRE
Non-operating Shock	75 Gs

Vibration - swept sine, 1 octave per minute

Operating Vibration	
5 - 27 Hz (double amplitude)	.010"
28 - 500 Hz (peak)	.50 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 (dc - 1.5 MHz).

ACOUSTIC NOISE:

Acoustic Sound Pressure (max)	40 dBA at 1m
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