

TEXT,C,55
CONNER PERIPHERALS INC - SUMMIT SERIES
CP-3540 SPECIFICATION SUMMARY

High Performance, High Capacity 3.5-inch Disk Drives.

KEY FEATURES:

- Ideal for high-end desktop PCs, workstations and file servers
- Fast 12 msec average seek time
- 4500 RPM rotation speed, 6.7 msec average latency
- 256K segmented cache buffer
- 2.5 Mbytes/sec sustained transfer rate
- High reliability: uses only 6.7 watts of power
- SCSI-2 interface

GENERAL:

Embedded Controller/Interface	SCSI-2
Capacity (Formatted)	543.7 MB

PHYSICAL CONFIGURATION:

Actuator type	Rotary voice-coil
Number of Disks	6
Data Surfaces	12
Data Heads	12
Servo	Embedded
Tracks per Surface	1806
Track Density	2150 TPI
Track Capacity (formatted)	25,088 bytes
Bytes per Block	512
Blocks per Drive	1,061,928
Sectors per Track	49, 1 user

PERFORMANCE:

Seek Times (*)	
Track to Track	3 msec
Average (random)	12 msec
Maximum	30 msec
Average Latency	6.7 msec
Rotation Speed (+/-1%)	4500 RPM
Controller Overhead	< 500 usec
Data Transfer Rate	
To/from Media	2.5 MB/sec
Data Transfer Rate	
To/from Buffer	5.0 MB/sec
Start Time - Power Up (0-4500 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	256K

* = At nominal DC input voltages

READ/WRITE:

Recording Method	2,7 RLL code
Recording Density - ID	44,325 BPI
Flux Density - ID	
(flux reversals per inch)	29,550

POWER REQUIREMENTS

(PC/AT interface typical):

POWER

R/W Mode	7.5W
Seek Mode	10.0W
Idle Mode	6.7W

PHYSICAL CHARACTERISTICS:

Physical Dimensions	Height	1.625 (41.3mm)
	Length	5.75" (146.1mm)
	Width	4.00" (101.6mm)
	Weight	2.2lbs (1.00kg)

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, 11 msec duration

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)	.50 Gs WNRE
Non-Operating Vibration	
5 - 62 Hz (double amplitude)	0.020"
63 - 500 Hz (peak)	4 Gs

WNRE = Without Non-Recoverable Errors

ACOUSTIC NOISE:

Acoustic Sound Pressure (max)	40 dBA at 1m
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