Apple 230MB Hard Drive: Specifications (3/93)

Article Created: 17 March 1993

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TOPIC ---

What are the technical specifications of the internal 230MB hard disk for the Macintosh.

DISCUSSION --

The specifications for the 230MB Hard Drive are as follows:

Capacity

Formatted Data Capacity: 245 MB
Data Surfaces: 2
Heads: 4
Block Size: 512 bytes

Performance

Average Seek Time: 16 ms NOC (Nominal Operating Conditions)
                             19 ms WOC (Worst Operating Consitions)
Data Transfer Rate: Up to 5.0 MB/sec (Asynchronous)

Startup: ≤16 sec WOC

Must operate equally well in any orientation

Physical

Form Factor: 3.5 inch
Dimensions: 146.1 x 101.6 x 25.4 mm

50 Pin SCSI Connector

Environmental

Temperature		
- Operating	5 degrees C to 55 degrees C	
- Non-operating	-40 degrees C to 70 degrees C	
Relative Humidity:	8 to 80%, operating, non-condensing	
	5 to 95%, non-operating	
Altitude		
- Operating	-200 feet to 10,000 ft	
- Non-operating	-200 feet to 15,000 ft	
Vibration peak levels:		
- Operating	1.0 g	with no errors
- Non-operating	2.0 g	with no damage allowed
Shock levels		
- Operating	6 g	with no errors
- Non-operating	70 g	

Power Requirements

Voltage	5V DC with tolerance of +/-5%	
	12V DC with tolerance of +10%/-5&	
Power Draw:		
- Startup	12.3 watts (avg.)	
- Idle	3.9 watts (avg.)	Drive is not reading, writing, seeking, or executing commands. A portion of the R/W circuitry is powered down.
- Access	4.9 watts (avg.)	This is when data is being written to or read from the drive. The head is assumed to be on track.
- Peak Current	<.31 amps on 5V, 1.0 amps on 12V	

Termination power is provided through pin 26 of the 50 pin SCSI connector.

Article Change History
03/19/93 - UPDATED • To include additional specifications

Support Information Services

Keywords: specsht

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This information is from the Apple Technical Information Library.

19960215 11:05:19.00

Tech Info Library Article Number: 11708