



# Tech Info Library

## Apple Internal 230MB Hard Drive: Specifications

Revised: 7/21/92  
Security: Everyone

Apple Internal 230MB Hard Drive: Specifications

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### TOPIC -----

This article provides the technical specifications for the 230MB internal hard disk drive.

### DISCUSSION -----

#### Capacity

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Formatted capacity: 232MB  
Formatted sector size: 512 bytes  
Sectors per track: 44 to 87  
Total data tracks/surface: 1,930  
Total data sectors (blocks): 471,140

#### Performance

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Track to track: 4 milliseconds, including settling  
Average access time: 16 milliseconds, including settling  
Full stroke: 28 milliseconds, including settling  
Average latency: 7 milliseconds  
SCSI Data Burst Rate: 5.0 megabytes/second (CPU/bus dependent)  
Time to ready from power on: <20 seconds  
Time to stop from power down: <20 seconds

#### Environmental

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Exceeds all Macintosh system environmental specifications: operating and non-operating temperature, humidity, altitude, vibration, and shock.

#### Size and Weight

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Dimensions: 150 x 102 x 25.4 millimeters (1/3 height, 3.5-inch form factor)

Weight: 0.85 kilograms (30 ounces) not including mounting carrier

## Miscellaneous

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Encoding Method: 1,7 RLL (Run-Length Limited)

Servo mechanism: optical encoder servo

Actuator type: balanced rotary voice coil

Landing zone: dedicated (not on data)

Head park and lock: the actuator automatically parks and locks in the landing zone at power down.

Mounting: any mounting orientation is supported.

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