



# Tech Info Library

## Macintosh IICI and IIFX: New 3.5-Inch 160MB SCSI Hard Drive

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Security: Everyone

Macintosh IICI and IIFX: New 3.5-Inch 160MB SCSI Hard Drive

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### TOPIC -----

Apple is now using a new 3.5-inch 160MB SCSI hard disk drive mechanism as an optional component in the Macintosh IICI and Macintosh IIFX. (It is not a separate product.) Here are the technical specifications for this drive mechanism.

### DISCUSSION -----

#### Capacity

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Formatted data capacity: 160MB  
Data surfaces: 8  
Heads per surface: 1  
Block size: 512 bytes  
Total disk blocks: 327,780  
Sectors per track: 39

#### Characteristics

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Average access time: 16 milliseconds, including settling  
Transfer rate: up to 1.5MB/sec (CPU/bus dependent)  
Rotation speed: 3,600 RPM  
Startup: <20 seconds  
Spindown: <20 seconds

#### Physical

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Form Factor: 3.5-inch, half height  
Weight: 0.85 kg (30 ounces) without carrier  
Size: 150 x 102 x 42 millimeters

Miscellaneous

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Encoding method: 2,7 RLL (Run-Length Limited)  
Servo mechanism: Embedded sector servo  
Actuator type: Balanced Rotary Voice Coil  
Landing zone: Dedicated (i.e. 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

Environmental

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Exceeds all Macintosh CPU environmental  
specifications (operating and non-operating  
temperature, humidity, altitude, vibration and shock).

Safety

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UL, CSA and TUV certified

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