



## Overview

Three Macintosh™ Internal Hard Disks—the 20SC, 40SC, and 80SC—provide access to high-performance storage and large-capacity solutions. The Macintosh Internal Hard Disk 20SC fits inside Macintosh SE and Macintosh II personal computers, and the 40SC or 80SC fit inside the Macintosh II. These disks require no desk space, and virtually eliminate disk swap—because they can accommodate multiple applications, lengthy documents, and large data bases, in one convenient location.

Besides providing up to 100 times the storage capacity of an 800K floppy disk, Macintosh Internal Hard Disks let you access data up to six times faster than 3.5-inch floppy-disk drives.

## Features

- ▶ 20, 40, or 80 megabytes of internal disk storage
- ▶ Fast data access:
  - 30 milliseconds with the Macintosh Internal 40SC and 80SC Hard Disks
  - 85 milliseconds with the 20SC Hard Disk
- ▶ Industry-standard Small Computer System Interface (SCSI)

## Benefits

- ▶ Provides space for data-intensive files, large documents, and bigger applications.
- ▶ Virtually eliminates disk swapping.
- ▶ Finds data significantly faster than 3.5-inch floppy drives.
- ▶ Provides faster data transmission than a serial interface.
- ▶ Provides connection to the Apple Tape Backup 40SC for efficient file backup and restoration.
- ▶ Lets you expand your system with up to six additional SCSI hard disks, tape backup drives, or other SCSI devices.

# Macintosh Internal Hard Disk 20SC

## System Requirements

To use an Macintosh Internal Hard Disk 20SC, you must have a Macintosh SE or Macintosh II personal computer.

## Technical Specifications

### Recording Media

Two double-sided rigid fixed disks with two dual read/write heads

### Capacity

Data capacity:	20 megabytes (formatted)
Data surfaces:	4
Heads/Surfaces:	1
Block size:	512
Total disk blocks:	39,360
Sectors/Tracks:	32

### Characteristics

Average seek time:	85 milliseconds
Transfer rate:	
Macintosh Plus:	265,000 bytes per second
Macintosh SE:	660,000 bytes per second
Macintosh II:	937,000 bytes per second
Rotational speed:	2,744 rpm
Startup time:	15 seconds
Spin-down time:	25 seconds

### Interface

Connects directly to the Macintosh SE or Macintosh II via the internal SCSI 50-pin connector.

### Electrical requirements

Line voltage:	85 to 270 volts AC
Frequency:	47 to 64 hertz
Maximum power:	60 watts

### Environmental requirements

Operating temperature:	50° to 104° F (10° to 40° C)
Storage temperature:	32° to 122° F (0° to 50° C)
Relative humidity:	20% to 80% (noncondensing)
Altitude:	0 to 10,000 ft. (0 to 3,048 m)

### Size and weight

Height: 3.1 in. (78.5mm)	Depth: 10.5 in. (266 mm)
Width: 9.7 in. (246mm)	Weight: 9 lbs. (4kg)

## Ordering Information

**Macintosh Internal  
Hard Disks 20SC**  
Order No. M0216

With your order, you'll receive:

- ▶ Macintosh Internal Hard Disk (20 megabytes)
- ▶ Owner's Guide
- ▶ Macintosh utilities disk
- ▶ Macintosh utilities manual
- ▶ Power cord
- ▶ Limited warranty statement

# Macintosh Internal Hard Disk 40SC

## System Requirements

To use an Macintosh Internal Hard Disk 40SC, you must have a Macintosh SE or Macintosh II personal computer.

## Technical Specifications

<b>Recording Media</b>	Two double-sided rigid fixed disks with two dual read/write heads	
<b>Capacity</b>	Data capacity:	40 megabytes (formatted)
	Data surfaces:	4
	Heads/Surfaces:	1
	Block size:	512
	Total disk blocks:	78,246
	Sectors/Tracks:	32
<b>Characteristics</b>	Average seek time:	30 milliseconds
	Transfer rate:	
	Macintosh II:	937,000 bytes per second:
	Rotational speed:	3,662 rpm
	Startup time:	13 seconds
	Spin-down time:	18 seconds
<b>Interface</b>	Connects directly to the Macintosh II via the internal SCSI 50-pin connector.	
<b>Electrical requirements</b>	Line voltage:	85 to 270 volts AC
	Frequency:	47 to 64 hertz
	Maximum power:	60 watts
<b>Environmental requirements</b>	Operating temperature:	50° to 104° F (10° to 40° C)
	Storage temperature:	32° to 122° F (0° to 50° C)
	Relative humidity:	20% to 80% (noncondensing)
	Altitude:	0 to 10,000 ft. (0 to 3,048 m)
<b>Size and weight</b>	Height: 3.1 in. (78.5mm)	Depth: 10.5 in. (266 mm)
	Width: 9.7 in. (246mm)	Weight: 9 lbs. (4kg)

## Ordering Information

**Macintosh Internal  
Hard Disks 40SC**  
Order No. M0232

With your order, you'll receive:

- ▶ Macintosh Internal Hard Disk (40 megabytes)
- ▶ Owner's Guide
- ▶ Macintosh utilities disk
- ▶ Macintosh utilities manual
- ▶ Power cord
- ▶ Limited warranty statement



# Macintosh Internal Hard Disk 80SC

## System Requirements

To use an Macintosh Internal Hard Disk 80SC, you must have a Macintosh SE or Macintosh II personal computer.

## Technical Specifications

<b>Recording Media</b>	Three double-sided rigid fixed disks with two dual read/write heads	
<b>Capacity</b>	Data capacity:	80 megabytes (formatted)
	Data surfaces:	6
	Heads/Surfaces:	1
	Block size:	512
	Total disk blocks:	156,370
	Sectors/Tracks:	32
<b>Characteristics</b>	Average seek time:	30 milliseconds
	Transfer rate:	
	Macintosh II:	937,000 bytes per second:
	Rotational speed:	3,662 rpm
	Startup time:	13 seconds
	Spin-down time:	18 seconds
<b>Interface</b>	Connects directly to the Macintosh II via the internal SCSI 50-pin connector.	
<b>Electrical requirements</b>	Line voltage:	85 to 270 volts AC
	Frequency:	47 to 64 hertz
	Maximum power:	60 watts
<b>Environmental requirements</b>	Operating temperature:	50° to 104° F (10° to 40° C)
	Storage temperature:	32° to 122° F (0° to 50° C)
	Relative humidity:	20% to 80% (noncondensing)
	Altitude:	0 to 10,000 ft. (0 to 3,048 m)
<b>Size and weight</b>	Height: 3.1 in. (78.5mm)	Depth: 10.5 in. (266 mm)
	Width: 9.7 in. (246mm)	Weight: 9 lbs. (4kg)

## Ordering Information

**Macintosh Internal Hard Disks 80SC**  
Order No. M0233

With your order, you'll receive:

- ▶ Macintosh Internal Hard Disk (80 megabytes)
- ▶ Owner's Guide
- ▶ Macintosh utilities disk
- ▶ Macintosh utilities manual
- ▶ Power cord
- ▶ Limited warranty statement