



Macintosh IIfx



Whether you're working on a Macintosh today and want more speed and a larger, color display or considering your first Macintosh and looking for plenty of future expansion, Apple has good news for you: The Macintosh IIfx, Apple's new, fast, flexible personal computer.

First, the Macintosh IIfx streamlines your work by running programs four times faster than the Macintosh Classic personal computer. It also comes with a minimum of 4 megabytes of memory—expandable to 68—and includes an accelerator slot so you can increase system performance later on.

The Macintosh IIfx also is designed to deliver dazzling color. It has built-in 256-color support for the Macintosh Color Display, and can easily be upgraded to deliver 32,000 colors. If that's not enough for the

work you do, you can upgrade the Macintosh IIfx to display photo-realistic images in up to 16.7 million colors by plugging an appropriate card into one of three NuBus expansion slots. You also can use the slots to work with large-screen monitors.

The enhanced storage capability of the Macintosh IIfx supports up to three internal storage devices. Thus it's an ideal system for working with the wealth of information stored on CD-ROM discs, high-capacity SyQuest drives, and other hard disk drives—without losing valuable desk space.

And when you purchase a Macintosh IIfx that's configured with the AppleCD 300i internal CD-ROM drive, you not only get one of the fastest drives available, you get an upgraded system with 5 megabytes of memory, 32,000-color capability, software for Kodak's new Photo CD format, and a selection of CD-ROM titles.

Macintosh IIfx Features

Power and speed

- > 16-MHz 68030 microprocessor
- > Optional math coprocessor (FPU)

Memory

- > 4 MB of RAM, expandable to 68

Expansion

- > Room for three internal storage devices, including the AppleCD 300i CD-ROM drive
- > Three NuBus expansion slots
- > One accelerator slot

Display

- > Built-in support for Apple monitors
- > 256 colors, expandable to 32,000

Features Built Into Every Macintosh

Usability

- > Runs thousands of Macintosh applications
- > Easy to set up, learn, and use

System software

- > System 7 with multitasking, file sharing, Balloon Help, and TrueType fonts

Networking

- > Built-in LocalTalk
- > File sharing without a dedicated server

Compatibility

- > Macintosh, MS-DOS, OS/2, and ProDOS floppy disk formats



Macintosh IIfx

Technical Specifications

Microprocessor

- > 68030, running at 16 MHz
- > Optional 68882 math coprocessor
- > Integral Paged Memory Management Unit (PMMU)

Memory (DRAM)

- > Comes with 4 MB of RAM standard
- > Expands to up to 68 MB of RAM by installing four 16 MB SIMMs in the expansion bank
- > Includes RAM disk software

Disk storage

- > 1.4 MB internal Apple SuperDrive
- > Support for one 3.5-in. hard disk drive
- > Support for one 5.25-in. half-height device, such as the AppleCD 300i internal CD-ROM drive

AppleCD 300i configuration

- > Operates at twice the speed of ordinary CD-ROM drives
- > Data streaming rate, double speed (2X)
 - Mode 1: 300 KB/sec
 - Mode 2: 342 KB/sec
- > Automatic lens cleaning and double front-loading door for dust protection
- > Auto-inject caddy loading
- > Support for multi-session Kodak Photo CD format
- > Support for bootable CDs
- > 5 MB RAM
- > 1 MB video RAM

Video display

- > Supports Apple monochrome and color monitors, including:
 - Macintosh 12" Monochrome Display
 - Macintosh 12" RGB Display
 - AppleColor High-Resolution RGB Monitor
 - Macintosh Color Display
- > Supports some other VGA monitors

Video RAM (VRAM)

- > 512K minimum supports 256 colors on Apple color video displays listed above
- > Expandable to 1 MB for support of 32,000 colors on the same displays

Interfaces

- > Three internal NuBus expansion slots
- > One accelerator slot
- > SCSI bus interface
- > Video port to support RGB and monochrome monitors of various sizes and resolutions
- > One sound output port for stereo playback from CDs and monaural playback of Macintosh sounds
- > One sound input port
- > Two serial (RS-232/RS-422) ports, 230.4 Kbit/sec maximum (up to 0.920 Mbit/sec if clocked externally)
- > Two Apple Desktop Bus (ADB) ports, supporting a keyboard, mouse, and other devices daisy-chained through a synchronous serial bus

Keyboard

- > Supports all Apple Desktop Bus keyboards

Mouse

- > Apple Desktop Bus Mouse; mechanical tracking, optical shaft, or contact encoding

Sound generator

- > Custom Sound Chip drives stereo miniature headphone jack

Clock/calendar

- > Custom chip with long-life lithium battery

Microphone

- > Electret, omnidirectional; output voltage is 4 mV, peak to peak, at normal volume

Disability access

- > CloseView, Easy Access, and visible beep are included with system software. These built-in features and third-party options provide alternative input and output tools for people with disabilities.

Electrical requirements

- > Line voltage: 100 to 240 V AC, RMS automatically configured
- > Frequency: 50 to 60 Hz, single phase
- > Power: 112 W maximum, not including monitor power

ADB power requirements

- > Maximum current draw for all ADB devices: 500 mA (a maximum of three ADB devices is recommended)
- > Mouse draws 10 mA
- > Keyboard draws 25 to 80 mA, depending on the keyboard model used

Operating environment

- > Operating temperature: 50° F to 104° F (10° C to 40° C)
- > Storage temperature: -40° F to 116.6° F (-40° C to 47° C)
- > Relative humidity: 5% to 95% noncondensing
- > Maximum altitude: 10,000 ft. (3,048 m)

Size and weight

Main unit:

- Height: 6.0 in. (15.2 cm)
- Width: 13.0 in. (33.0 cm)
- Depth: 16.5 in. (41.9 cm)
- Weight*: 25 lbs. (11.3 kg)

Mouse:

- Height: 1.1 in. (2.8 cm)
- Width: 2.1 in. (5.3 cm)
- Depth: 3.8 in. (9.7 cm)
- Weight: 6 oz. (170 g)

*Weight will vary based on internal devices installed

Ordering Information

Macintosh IIfx 4D/0.5V/40

Order No. M1351LL/A

- > Macintosh IIfx personal computer with 4 MB of RAM, 512K video RAM for 256-color capability, and 40 MB internal hard disk drive and 1.4 MB internal Apple SuperDrive
- > Mouse and microphone
- > System software
- > Complete setup, learning, and reference documentation
- > Limited warranty statement

Macintosh IIfx 4D/0.5V/80

Order No. M1352LL/A

- > Macintosh IIfx personal computer with 4 MB of RAM, 512K video RAM for 256-color capability, and 80 MB internal hard disk drive and 1.4 MB internal Apple SuperDrive
- > All software and accessories provided with the Macintosh IIfx 4D/0.5V/40

Macintosh IIfx 5D/1V/80/CD

Order No. M1370LL/A

- > Macintosh IIfx personal computer with 5 MB of RAM, 1 MB of video RAM for 32,000-color capability, 80 MB internal hard disk drive, AppleCD 300i CD-ROM drive, and 1.4 MB internal Apple SuperDrive
- > All software and accessories provided with the Macintosh IIfx 4D/0.5V/40

Apple Computer, Inc.
20525 Mariani Avenue
Cupertino, CA 95014
(408) 996-1010
TLX 171-576

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