



# Apple Facts

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# The Apple Advantage

## Desktop Computer Systems

## Portable Computers

## Servers

## Networking Products

## Printers, Displays, and Imaging Products

## Newton Mobile Products

## Apple Software and Technologies

## QuickCharts

Welcome to **AppleFacts 8.97**—a concise guide to Apple products offered worldwide. Because product availability, configurations, and part numbers vary worldwide, we suggest that you contact your local Apple dealer or Apple office for this information.

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## **The Apple Advantage**

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## A key to symbols used in


- Indicates either a product that is available in a configuration specifically designed for use with Windows software, or a peripheral product that can be used with Windows software-based systems.
- ★ Indicates a new product.
-  32 Represents a cross-reference. For more information, simply turn to the page listed (in this case, page 32).

# The Apple Advantage

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## What comes with every Macintosh

- *The Mac OS.* Imitated, but never equaled, the popular Macintosh operating system makes computers from Apple incredibly easy to learn and use. The latest version, Mac OS 8, dramatically improves user productivity and Internet integration, setting a new standard in user-friendly power. 9
- *PowerPC processor technology.* Every Macintosh computer available today comes with a RISC-based PowerPC processor—and some Power Macintosh systems are based on the latest offering in this high-performance processor line, which features even higher clock speeds as well as direct access to inline cache through a 100-megahertz bus. Taking advantage of the PowerPC processor family's power and speed, software developers have already designed more than 2,000 applications that provide new levels of performance.
- *Peripheral Component Interconnect (PCI) slots.* All current Power Macintosh computers feature PCI expansion slots, rather than the NuBus slots used by earlier computers from Apple. PCI offers three main advantages: higher performance (up to three times faster), more solutions (because PCI is a cross-platform standard), and lower cost.
- *An Apple SuperDrive floppy disk drive.* The Apple SuperDrive floppy disk drive is a high-density floppy disk drive that can read from and write to Macintosh, MS-DOS, Windows (Windows 95, Windows 3.1, and Windows for Workgroups 3.11), OS/2, and ProDOS disks. You can, for example, use it to open a file that's stored on an MS-DOS disk, modify the file with a Mac OS program, and save your work back to the MS-DOS disk.
- *Built-in networking ports.* All Macintosh computers come with a LocalTalk port for convenient, low-cost AppleTalk network connections, as well as built-in Ethernet ports or an Ethernet option

for higher-speed networking. You can also connect a Macintosh to DECnet, TCP/IP, SNA, APPC, 3270, and X.25 networking environments.  82


- **WYSIWYG.** Macintosh offers “what you see is what you get” capabilities—things you create and view on the screen will appear exactly as you expect when you print them.
- **Easy connectivity.** All Macintosh computers include an Apple Desktop Bus (ADB) port for input devices, and a SCSI port for connecting devices such as hard disk drives, CD-ROM drives, scanners, and more—with no need for extra cards or connectors. In fact, all you need to connect your Macintosh to an Apple printer or other Apple peripheral is a single cable. (And by the way, if your computer is connected to more than one printer over a network, it's also extremely easy to select the particular printer you want to use.)
- **Integrated sound capabilities.** Every Macintosh features sound-output capabilities that allow you to play back high-quality sound, as well as sound-input capabilities for adding voice annotation or music to your work.
- **Built-in video.** Nearly all Macintosh computers include built-in display support, so there's no need to purchase, configure, or install video cards. Many offer additional video features, such as the ability to plug in a camcorder or a VCR for easy, direct video input and output. And some even let you watch television in a window on your Macintosh desktop.
- **Features for individuals with disabilities.** Out of the box, the Macintosh is an exceptionally accessible personal computer, offering features for individuals with difficulties in sight, hearing, and movement.

## Why Macintosh?

The short answer to that question is this: People are more productive with Macintosh computers than with PCs running Windows. And when you look for reasons, the first thing you'll find yourself looking at is the Mac OS, the system software that brought the term graphical user interface (GUI) out of the research realm and onto millions of desktops. Since its 1984



debut, the Mac OS has continued to set the standards for GUIs by pioneering new graphical capabilities and features designed to improve not only user productivity, but also overall user experience.

Recently, Apple “raised the bar” yet again with our release of Mac OS 8, system software that dramatically improves on the latest implementation of System 7—enough to warrant a numerical jump. With a user experience that’s far more responsive and efficient, and a complete set of Internet services, Mac OS 8 is the most significant release of the Mac OS since 1984. From a streamlined Installer to its PowerPC-native Finder, multitasking, spring-loaded folders, and pop-up windows, Mac OS 8 enhances everything from the look of the desktop to the way you interact with your computer. Mac OS 8 also provides a wealth of Internet services to offer true seamless integration of Internet capabilities into your everyday computer use. For additional specifics about Mac OS 8, and how it can help you to get more done—better—turn to the System Software and Related Products section in this book.  132

Ease of use and Internet support—the keystones of the Mac OS 8 release—are clearly vital to the Macintosh appeal, but they’re far from the whole story. For example, Apple enthusiasts also commonly cite power and performance, as well as PC compatibility, as major factors in their choice of the Macintosh platform.

- *Power/performance.* Power Macintosh computers offer the high-performance advantage of the RISC-based PowerPC processor. Independent studies in 1997 by Market Presence, Inc. and *Macworld* magazine have shown that Power Macintosh computers can run some application programs significantly faster than comparable Pentium processor–based PCs running Windows. This Macintosh performance/power advantage is complemented by powerful applications (including thousands of 32-bit applications); advanced system software features such as Open Transport, AppleScript, and WorldScript; and flexible built-in hardware features, including networking and SCSI support.

- *PC compatibility.* Macintosh computers can fit easily into multi-vendor environments—and they coexist particularly well with PCs running MS-DOS and Windows. All current Macintosh computers can read from and write to DOS and Windows disks, using their built-in Apple SuperDrive floppy disk drive and compatibility software that forms an integral part of the Mac OS. In addition, simply installing a PC Compatibility Card from Apple can turn any Power Macintosh with an available 12-inch PCI slot into a versatile system that runs MS-DOS and Windows (including Windows 95), as well as the Mac OS.

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### **Why is Apple the industry leader in multimedia?**

Another long-standing Apple strength is multimedia. Apple has been considered the de facto industry leader in cutting-edge multimedia ever since the emergence of the Macintosh, with its integrated sound and graphics capabilities. And we continue to lead in the new media industry of today—and tomorrow—with an impressive array of advanced platform technologies, tools, and support programs.

Currently, in fact, Apple—and in particular, the Macintosh computer—can boast some pretty impressive figures. For example, a 1996 study by Dataquest named Apple the leading personal computer vendor worldwide for multimedia. In addition, research has indicated that approximately 62 percent of CD-ROM authoring—and more than 50 percent of the digital video data creation for the Internet—is done using Apple media technologies. One of the primary reasons for the popularity of Apple technologies in multimedia is that the Mac OS includes advanced media software. The performance of PowerPC processor technology enables Apple to provide software-only solutions in areas such as graphics and video. The current version of the Mac OS includes the technologies that combine to form the QuickTime Media Layer (QTML)—now an industry standard for the creation of media-rich Internet content. QTML consists of the following:



- QuickTime is the core technology, uniting QTML into a single, cohesive, open standard for creating, storing, and distributing digital media. It provides a means of creating and controlling virtually any digital media content, including digital video text tracks, digital music/MIDI tracks, MPEG tracks, virtual-reality (VR) objects, 3D objects, 3D sprites, and animation tracks.
- QuickDraw 3D brings real-time, workstation-class three-dimensional graphics to desktop computing. Developers can take advantage of the QuickDraw 3D toolkit to create applications that offer users features such as rapid shading and rendering.
- QuickTime VR is a virtual-reality tool that supports three types of interactive user experiences: a panoramic technology that lets users explore 360-degree scenes, an interaction technology that lets users actually pick up and interact with objects, and multinode experiences that combine multiple scenes and objects.
- PlainTalk technology encompasses both speech recognition and speech synthesis, allowing for the creation of applications that both talk and listen. Apple's speech-recognition engine is speaker-independent, allows users to talk naturally without pausing between words, and operates accurately even in noisy environments.




Apple tools and technologies were designed with digital media in mind. If you're creating digital media projects, the intersection of PowerPC processor performance with Apple's advanced multimedia capabilities offers you the power to take on even the most demanding projects. So if your plans include video integration, 3D animation, virtual reality, music composition, speech recognition, or use of other digital media, Apple provides the best environment for both integration and playback of these elements—whether you're working with the Mac OS or Windows, distributing the results via CD-ROM or the Internet.

Networking is another historical “Apple win.” We were the first company to integrate networking into a personal computer as a standard feature. And we continue to enhance our networking support over time, for example, by including full support for TCP/IP at the system software level.

Today’s “Internet is all” attitude has put a new spin on what it means to provide “outstanding networking capabilities.” Apple can add to its numerous networking credentials a long—and continuing—history of Internet involvement, support, and pioneering development. Apple’s current Internet support—described below—focuses on making it easier to connect to, explore, and publish your own information on the Internet and World Wide Web, with solutions for Internet access and servers.

- All Apple products come Internet-ready. At Apple, we recognize the vital (and rapidly growing) importance of the Internet, and we have responded by shipping all of our products in an “Internet-ready” state, complete with everything required for Internet access. For example, Macintosh computers come with built-in networking capabilities, as well as adequate power, memory, and storage for getting online and making the most of it. Finally, both our entire desktop computer line and our complete line of mobile computers now come with all of the software tools required to gain access to the Internet. The Internet Setup Assistant and Internet Dialer in Mac OS 8 make getting online easy even for beginners, while built-in tools and services such as Netscape Navigator, America Online, and PointCast offer users a range of ways to explore—and enjoy—the vast resources of the Internet.

- Apple offers a range of unique Internet server solutions. For our customers who want to publish material on the Internet—and for the rapidly growing number of organizations interested in taking advantage of Internet technology to meet their internal communications needs—Apple offers numerous possibilities. For example,

our Apple Internet Server Solution  143 is a unique combination of our Mac OS–based Workgroup Servers  74–79 with a complete set of the state-of-the-art software tools required to set up an Internet or intranet server. Already, its exceptional ease of use and simplicity of maintenance have made this solution a favorite among web publishers. In addition, our next-generation AppleShare product, AppleShare IP 5.0  142, incorporates TCP/IP support. More specifically, it's a PowerPC-native application that combines traditional file and print services with web, mail, and File Transfer Protocol (FTP) services, to provide an easy, effective, and efficient solution for departments, workgroups, and small businesses that need to share information and resources.

- Apple technologies facilitate content creation. Our QTML technologies are already web standards—used to create the majority of multimedia content currently posted on the Internet. By using QuickTime plug-ins for Netscape's popular Navigator browser, you'll find that it's easy to make media-rich web content broadly accessible to potential viewers.
- Apple provides proven solutions for corporate intranets. More and more organizations—from global enterprises to small businesses—are adopting Internet technology to meet internal networking and communications needs. As organizations move to Internet Protocol (IP) networking, they gain the advantages of streamlined development, since they can create an application that will run on all of their supported client platforms without requiring porting or even modification. And the popular Macintosh computer, with its versatile connectivity and networking and ease of use, fits easily into corporate intranets. The Macintosh is especially popular with developers and support staff, who enjoy its extensive tool set and ease of development, as well as its comparatively low maintenance, support, and training requirements. It's considerations such as these that explain why Apple itself has become a model intranet user—and why growing numbers of organizations are taking a second look at what Apple products can do for them.

After reading the preceding pages, you might well be inclined to ask one very basic question: "What does all of this mean to me?"

Our reply would be just this: "Quite simply, Apple offers exceptionally productive and cost-effective computing solutions." So if you're looking to buy a personal computer or related technology, your first look should be at Apple.

What do we mean by "exceptionally productive and cost-effective"? Well, a lot of things.

Apple's Macintosh computers integrate a host of capabilities that seamlessly combine to enhance productivity and provide an unmatched user experience. For example, all Macintosh computers are extraordinarily easy to set up and use, so you're productive from Day 1. And their flexible communications features support true "plug-and-play" connectivity—so connecting an Apple computer to a network or to an Apple display or printer is merely a matter of plugging in a cable and pressing a power switch. Finally, the Macintosh goes beyond the basics to make the extraordinary ordinary, with outstanding audio and video capabilities, as well as ColorSync, Apple's advanced color correction and color matching technology.

Apple's ease of use extends to a full range of peripheral products, creating a quality solution for taking your ideas from concept to completion. Apple offers a broad selection of printers, from our most affordable ink-jet printer to our most advanced color laser printer, that provide outstanding results. Though they offer a range of capabilities, all Apple printers share a few important characteristics: They come complete, they connect easily to Apple computers (and in some cases, also to PCs), and they take advantage of Apple's ColorSync technology to ensure consistency of color from computer screen to printed output. In fact, the same can be said of virtually all Apple peripherals—including the Apple Color OneScanner scanning devices, the QuickTake 200 digital camera, and our complete line of displays, from the Apple Multiple Scan 15AV to our new high-end, two-page display offerings: the AppleVision 850 and 850AV models.

Another aspect of Apple's complete solution is the fact that we offer a full spectrum of systems—from handheld devices based on our award-winning Newton technology to our Macintosh PowerBook line of advanced notebook computers to our feature-rich Power Macintosh desktop computers—as well as our Workgroup Server line of file, print, application, and Internet server systems. Despite their obvious differences in size and functionality, all of these systems continue to reflect the user-centered design principles that lie at the foundation of Apple's approach: They are practical, attractive in industrial design, easy to set up, and simple to use and maintain. And all of our current system offerings support flexible connectivity and versatile networking capabilities—including the ability to access the Internet.

In short, through our ongoing focus on making complex technology simple, Apple is continuing to make computing more accessible—and people more productive.



# Desktop Computer Systems

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# Macintosh Performa 6360

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## At a glance

- The Macintosh Performa 6360 is a powerful, versatile, and multimedia-enhanced computer.
- It combines flexible Internet access with a wealth of features that can meet both your current and future needs.

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**Specifications** *(Note: Macintosh Performa model numbers, configurations, and availability may vary worldwide.)*

- **Processor:** PowerPC 603e with integrated math coprocessor and 32K on-chip cache; optional 256K level 2 cache
- **Speed:** 160 megahertz
- **Memory:** 16MB of RAM, supports up to 136MB—8MB on logic board and an 8MB DIMM in one of the two DIMM slots
- **Storage:**
  - Internal Apple SuperDrive floppy disk drive
  - Internal 1.2GB IDE hard disk drive
  - Internal 8x-speed CD-ROM drive
- **Expansion capabilities:** PCI expansion slot (6.88 in.); communications slot for 28.8-Kbps modem (can be replaced with Ethernet card); video slot for NTSC, PAL, or SECAM video card; bay for Apple TV/FM Radio System; supports six external SCSI devices
- **Ports:** Two serial ports, ADB port, monitor port, high-performance SCSI port, 16-bit stereo sound-input/output ports with SRS 3D surround sound
- **Displays:** Built-in support for most Apple displays; 16-bit color at resolutions of 640 by 480 and 800 by 600 pixels, and 8-bit color at resolutions of up to 1,024 by 768 pixels



- *Networking ports:* Built-in LocalTalk; optional Ethernet (requires Ethernet card)
- *Dimensions (HWD):* 4.3 by 12.6 by 16.5 inches (10.95 by 32.0 by 41.9 cm)
- *Weight:* 17.0 lb. (7.7 kg)—will vary based on internal devices installed
- *Other features:* 28.8-Kbps data/fax/voice modem

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### **Key features**

- Features a fast RISC-based PowerPC 603e processor.
- Offers impressive multimedia capabilities in a flexible, modular design.
- Offers high-speed Internet access through its standard 28.8-Kbps internal fax modem.
- Comes with a trial version of the America Online information and communications service.
- Includes the Apple Internet Connection Kit software, for fast and easy Internet access.
- Provides 16-bit, CD-quality stereo sound for high-quality audio playback, as well as an audio-input port that lets you record your own sounds.
- Qualifies for the EPA Energy Star rating (U.S.A.) as an energy-efficient product.

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### **Other Macintosh models to consider**

If you want even more power in a convenient, space-saving mini-tower design, you should consider the Macintosh Performa 6400 series models, which feature 180-megahertz and 200-megahertz processors.

# Macintosh Performa 6400 Series

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## At a glance

- The Macintosh Performa 6400 computers are powerful and flexible systems.
- They feature a space-saving mini-tower design—a first for the Performa line—and provide a wealth of multimedia capabilities.

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## Specifications *(Note: Macintosh Performa model numbers, configurations, and availability may vary worldwide.)*

- *Processor:* PowerPC 603e with integrated math coprocessor and 32K on-chip cache; 256K level 2 cache (optional on Performa 6400/180)
- *Speed:* 180 or 200 megahertz
- *Memory:* 16MB of RAM, supports up to 136MB—8MB on logic board and an 8MB DIMM in one of the two DIMM slots
- *Storage:*
  - Internal Apple SuperDrive floppy disk drive
  - Internal 1.6GB or 2.4GB hard disk drive
  - Internal 8x-speed CD-ROM drive
- *Expansion capabilities:* Two PCI expansion slots (6.88 in.); communications slot for 28.8-Kbps modem (can be replaced with Ethernet card); video slot for NTSC, PAL, or SECAM video card; bay for Apple TV/FM Radio System; supports six external SCSI devices
- *Ports:* Two serial ports, ADB port, monitor port, high-performance SCSI port, 16-bit stereo sound-input/output ports with integrated subwoofer and SRS 3D surround sound
- *Displays:* Built-in support for most Apple displays; 16-bit color at resolutions of 640 by 480 and 800 by 600 pixels, and 8-bit color at resolutions of 832 by 624 and 1,024 by 768 pixels

- *Networking ports:* Built-in LocalTalk; optional Ethernet (requires Ethernet card)
- *Dimensions (HWD):* 16.0 by 7.8 by 16.9 inches (40.6 by 19.8 by 42.8 cm)
- *Weight:* 44.5 lb. (20.0 kg)—will vary based on internal devices installed
- *Other features:* 28.8-Kbps data/fax/voice modem

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**Key features**

- Features fast RISC-based PowerPC 603e processors.
- Offers outstanding multimedia capabilities in a space-saving tower design.
- Includes an 8x-speed CD-ROM drive for smooth multimedia playback.
- Provides two PCI expansion slots, for flexibility in configuring the system to provide additional capabilities.
- Supports high-quality audio capabilities through its SRS 3D surround sound and integrated subwoofer.
- Offers high-speed Internet access through its standard 28.8-Kbps internal modem.
- Includes an energy-saving sleep mode.

# Power Macintosh 4400/200

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## At a glance

- The Power Macintosh 4400/200 combines affordability with performance, through a unique design that couples economical industry-standard parts with advanced PowerPC processor technology.
- It's an ideal productivity system for small-business, education, home, and home office users.

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## Specifications *(Note: Configurations and availability may vary worldwide.)*

- *Processor:* PowerPC 603e with integrated math coprocessor and 32K on-chip cache; 256K level 2 cache
- *Speed:* 200 megahertz
- *Memory:* 16MB of RAM, supports up to 160MB—8MB on logic board and an 8MB DIMM in one of the two DIMM slots
- *Storage:*
  - Internal Apple SuperDrive floppy disk drive
  - Internal 2GB IDE hard disk drive
  - Internal 12x- or 24x-speed CD-ROM drive
- *Expansion capabilities:* Two PCI expansion slots (one 12 in., one 7 in.); supports seven external SCSI devices
- *Ports:* Two GeoPort-compatible serial ports, ADB port, monitor port, high-performance SCSI port, 16-bit stereo sound-input/output ports
- *Displays:* Built-in support for most Apple displays; supports display formats up to 1,280 by 1,024 pixels
- *Networking ports:* Built-in LocalTalk and Ethernet

- *Dimensions (HWD)*: 5.4 by 15.1 by 17.4 inches (13.9 by 38.4 by 44.2 cm)
- *Weight*: 24.0 lb. (10.9 kg)—will vary based on internal devices installed

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**Key features**

- Features an innovative design that takes advantage of industry-standard parts to provide superior economy.
- Uses a fast RISC-based PowerPC 603e processor.
- Includes a 12x- or 24x-speed CD-ROM drive for smooth multimedia playback.
- Includes one built-in Ethernet port.
- Provides two PCI expansion slots, for flexibility in configuring the system to provide additional capabilities.
- Comes with all of the software you need to connect directly to the Internet.
- Qualifies for the EPA Energy Star rating (U.S.A.) as an energy-efficient product.

# Power Macintosh 4400/200 PC Compatible

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## At a glance

- The Power Macintosh 4400/200 PC Compatible combines Macintosh performance and ease of use with a streamlined, cost-effective design and outstanding compatibility with the PC world.
- In addition to its PowerPC processor, it includes a card containing a Cyrix PR166 6x86 processor—so you can work in nearly any environment you choose: Mac OS, MS-DOS, Windows 3.1, Windows for Workgroups 3.11, or Windows 95, switching instantly between environments.

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## Specifications *(Note: Configurations and availability may vary worldwide.)*

- **Processor:** PowerPC 603e with integrated math coprocessor, 32K on-chip cache, and 256K level 2 cache; Cyrix PR166 6x86 with integrated math coprocessor and integrated level 2 cache
- **Speed:** 200 megahertz for PowerPC processor; Cyrix PR166 processor
- **Memory:** 32MB of EDO RAM, supports up to 160MB (Power Macintosh); 16MB of local RAM (PC Compatibility Card), supports up to 80MB
  - 8MB on logic board and an 8MB DIMM in one of the two DIMM slots
- **Storage:**
  - Internal Apple SuperDrive floppy disk drive
  - Internal 2GB IDE hard disk drive
  - Internal 12x-speed CD-ROM drive
- **Expansion capabilities:** Two PCI expansion slots compatible with PCI 2.0-compliant cards (one is dedicated to PC Compatibility Card); supports seven SCSI devices

- *Ports:* Two GeoPort-compatible serial ports, ADB port, monitor port, high-performance SCSI port, 16-bit stereo sound-input/output ports, PC game port
- *Displays:* Built-in support for most Apple displays as well as many third-party VGA and SVGA displays; separate DSub 15-pin connector provides photorealistic images with fast-switched video between Mac OS, MS-DOS, and Windows environments (concurrent video support on two monitors)
- *Networking ports:* Built-in LocalTalk and Ethernet (10BASE-T)
- *Dimensions (HWD):* 5.4 by 15.1 by 17.4 inches (13.9 by 38.4 by 44.2 cm)
- *Weight:* 24.0 lb. (10.9 kg)—will vary based on internal devices installed

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### Key features

- Features the RISC-based PowerPC 603e processor.
- Comes with a Cyrix PR166 6x86 processor, for hardware-level compatibility with MS-DOS, Windows 3.1, Windows for Workgroups 3.11, and Windows 95.
- Provides two PCI expansion slots, for flexibility in configuring the system to provide additional capabilities (one slot is dedicated to the PC Compatibility Card).
- Includes built-in Ethernet (10BASE-T), for faster data transfer over a network.
- Comes with 2MB of EDO VRAM (Macintosh logic board) and 1MB of Graphics Accelerated Video DRAM (PC Compatibility Card).
- Supports Sound Blaster 16 stereo sound output for PC multimedia compatibility.



# Power Macintosh 5400 Series

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**At a glance** *(Note: This computer is available to U.S. and Canadian education customers only.)*

- The Power Macintosh 5400 series systems are all-in-one computers that pack a lot of power into a convenient, compact package.
- These systems offer a number of multimedia options, including an internal TV tuner (the Apple TV/FM Radio System) to view television channels in a window on the computer screen, as well as a video-input card to connect your video camera or VCR.

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**Specifications** *(Note: Configurations and availability may vary worldwide.)*

- **Processor:** PowerPC 603e with integrated math coprocessor and 32K on-chip cache; 256K level 2 cache (optional on 5400/180)
- **Speed:** 180 or 200 megahertz
- **Memory:** 16MB or 32MB of RAM, supports up to 136MB—8MB on logic board and an 8MB or 24MB DIMM in one of the two DIMM slots
- **Storage:**
  - Internal Apple SuperDrive floppy disk drive
  - Internal 1.2GB or 1.6GB hard disk drive
  - Internal tray-loading CD-ROM drive
- **Expansion capabilities:** PCI expansion slot (6.88 in.); PCI-based communications slot for Ethernet card, included on the 5400/200 only, optional on the 5400/180 (can be replaced with 28.8-Kbps modem card); video slot for NTSC, PAL, or SECAM video-input card; bay for Apple TV/FM Radio System; supports six external SCSI devices

- *Ports:* Two GeoPort-compatible serial ports, ADB port, optional video connector that supports connection to another display, high-performance SCSI port, 16-bit stereo sound-input/output ports with SRS 3D surround sound
- *Display:* Built-in 15-inch flat, square multiple-scan color display (12.8-inch diagonal viewable image size)
- *Networking ports:* Built-in LocalTalk and Ethernet (10BASE-T)
- *Dimensions (HWD):* 17.5 by 15.1 by 16.0 inches (44.5 by 38.3 by 40.6 cm)
- *Weight:* 47.0 lb. (21.0 kg)—will vary based on internal devices installed
- *Other features:*
  - Push-button sound controls located on front
  - Infrared remote capabilities
  - Built-in stereo speakers
  - Built-in microphone

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### Key features

- Features the RISC-based PowerPC 603e processor.
- Offers impressive—and flexible—multimedia capabilities in an innovative and advanced all-in-one design.
- Includes built-in 10BASE-T Ethernet port.
- Uses the PCI expansion architecture, for flexibility in configuring the system to provide additional capabilities.
- Lets you adjust for maximum viewing convenience, using its tilt-and-swivel base and multiple-scan technology.
- Lets you easily expand the multimedia capabilities of your system by connecting one of a variety of multimedia kits. **E3** 138
- Includes an expansion bay for the Apple TV/FM Radio System.
- Qualifies for the EPA Energy Star rating (U.S.A.) as an energy-efficient product.

# Power Macintosh 5500/225

★28



**At a glance** *(Note: This computer is available to U.S. and Canadian education customers only.)*

- The Power Macintosh 5500/225 combines all-in-one convenience with RISC power and PCI slots.
- It combines the speed of a PowerPC processor with built-in hardware acceleration of 2D and 3D graphics, video, and QuickTime and MPEG movie playback to enable users to accomplish tasks previously possible only on expensive professional workstations.
- This system comes with built-in video input and NTSC video output for easy connection to a TV, a VCR, or a camcorder.

**Specifications** *(Note: Configurations and availability may vary worldwide.)*

- **Processor:** PowerPC 603e with integrated math coprocessor and 32K on-chip cache; 256K level 2 cache
- **Speed:** 225 megahertz
- **Memory:** 32MB of RAM, supports up to 128MB
  - Two DIMM slots, one occupied by a 32MB DIMM
- **Storage:**
  - Internal Apple SuperDrive floppy disk drive
  - Internal 2GB IDE hard disk drive
  - Internal tray-loading CD-ROM drive
- **Expansion capabilities:** One PCI expansion slot (6.88 in.); communications slot for Ethernet card (installed) or modem card; video slot for NTSC, PAL, or SECAM video-input card; bay for Apple TV/FM Radio System; supports six external SCSI devices
- **Ports:** Two GeoPort-compatible serial ports, ADB port, monitor port, high-performance SCSI port, 16-bit stereo sound-input/output ports with SRS 3D surround sound

- *Display:* Built-in 15-inch multiple-scan color display (12.8-inch diagonal viewable image size); 0.28-mm dot pitch; 2MB of SGRAM video memory supports up to 24-bit color (millions of colors) at resolutions of 640 by 480 and 800 by 600 pixels; 16-bit color (thousands of colors) at resolutions up to 1,024 by 768 pixels
- *Networking ports:* Built-in LocalTalk and Ethernet (10BASE-T)
- *Dimensions (HWD):* 16.0 by 7.8 by 16.9 inches (40.6 by 19.8 by 42.9 cm)
- *Weight:* 44.5 lb. (20.0 kg)—will vary based on devices installed
- *Audio:* 16-bit stereo recording and playback; SRS 3D surround sound; built-in front panel stereo speakers and microphone
- *Other features:*
  - Hardware acceleration of 2D graphics, QuickDraw 3D, video capture, and QuickTime and MPEG-1 movie playback
  - Apple Internet Connection Kit for easy Internet access
  - Apple VideoPhone software for audio and video conferencing
  - Infrared sensor for remote control of TV and audio CD playback
  - Energy-saving sleep mode
  - NTSC video out for output to a TV, a VCR, or a camcorder
- *Options:*
  - Avid Cinema for simple yet powerful video editing
  - Apple Video System and Apple TV/FM Radio System

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### Key features

- Features a fast, RISC-based PowerPC 603e processor.
- Accelerates the creation and playback of rich data types found on today's Internet and multimedia titles.
- Offers outstanding multimedia capabilities in a convenient, affordable, all-in-one design.
- Includes a tray-loading CD-ROM drive for multimedia playback.
- Provides a PCI expansion slot, for flexibility in configuring the system to provide additional capabilities.
- Offers high-speed networking and Internet access through its standard twisted-pair Ethernet connection.

# Power Macintosh 6400/200



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## At a glance

- The Power Macintosh 6400/200 is powerful and flexible, and includes the PowerPC 603e processor.
- It features a space-saving mini-tower design and provides a wealth of multimedia capabilities.

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## Specifications *(Note: Configurations and availability may vary worldwide.)*

- *Processor:* PowerPC 603e with integrated math coprocessor and 32K on-chip cache; 256K level 2 cache
- *Speed:* 200 megahertz
- *Memory:* 16MB of RAM, supports up to 136MB—8MB on logic board and an 8MB DIMM in one of the two DIMM slots
- *Storage:*
  - Internal Apple SuperDrive floppy disk drive
  - Internal 2.4GB hard disk drive
  - Internal 8x-speed CD-ROM drive
- *Expansion capabilities:* Two PCI expansion slots (6.88 in.); communications slot for Ethernet card; video slot for NTSC, PAL, or SECAM video card; bay for Apple TV/FM Radio System; supports six external SCSI devices
- *Ports:* Two GeoPort-compatible serial ports, ADB port, monitor port, high-performance SCSI port, 16-bit stereo sound-input/output ports with integrated subwoofer and SRS 3D surround sound
- *Displays:* Built-in support for most Apple displays; 16-bit color at resolutions of 640 by 480 and 800 by 600 pixels, and 8-bit color at resolutions of 832 by 624 and 1,024 by 768 pixels

- *Networking ports:* Built-in LocalTalk and Ethernet (10BASE-T)
- *Dimensions (HWD):* 16.0 by 7.8 by 16.9 inches (40.6 by 19.8 by 42.9 cm)
- *Weight:* 44.5 lb. (20.2 kg)—will vary based on internal devices installed

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**Key features**

- Features the RISC-based PowerPC 603e processor.
- Offers outstanding multimedia capabilities in a space-saving tower design.
- Comes with a built-in 10BASE-T Ethernet port.
- Includes an 8x-speed CD-ROM drive for smooth multimedia playback.
- Provides two PCI expansion slots, for flexibility in configuring the system to provide additional capabilities.
- Supports high-quality audio capabilities through its SRS 3D surround sound and integrated subwoofer.
- Includes an energy-saving sleep mode.



# Power Macintosh 6500 Series



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## At a glance

- The Power Macintosh 6500 systems are the most powerful and feature-rich Macintosh computers designed specifically for home, small-business, and education customers.
- They feature a flexible mini-tower design that includes built-in high-speed communications, a 12x-speed CD-ROM drive, advanced video and graphics capabilities, and an integrated subwoofer for superior-quality audio, as well as a wealth of multimedia capabilities.
- They combine the speed of a PowerPC processor with built-in hardware acceleration of 2D and 3D graphics, video, and QuickTime and MPEG movie playback to enable users to accomplish tasks previously possible only on expensive professional workstations.

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## Specifications *(Note: Configurations and availability may vary worldwide.)*

- **Processor:** PowerPC 603e with 32K on-chip cache; 256K or 512K level 2 cache
- **Speed:** 225, 250, 275, or 300 megahertz
- **Memory:** 32MB, 48MB, or 64MB of RAM, supports up to 128MB—Two DIMM slots, one occupied by a 32MB DIMM
- **Storage:**
  - Internal Apple SuperDrive floppy disk drive
  - Internal 2GB, 3GB, or 4GB IDE hard disk drive
  - Internal 12x-speed CD-ROM drive
  - Optional internal 100MB Iomega Zip drive (removable cartridge)\*

\*Available only as a factory-installed option on some models.



- *Expansion capabilities:* Two PCI expansion slots (7 in.); communications slot for Ethernet or modem card; video slot for NTSC, PAL, or SECAM video-input card; bay for Apple TV/FM Radio System; 5.25-inch precabled SCSI expansion bay (not available on models with Zip drives); supports five external SCSI devices
- *Ports:* Two GeoPort-compatible serial ports (one when internal modem is installed), ADB port, monitor port, high-performance SCSI port, 16-bit stereo sound-input/output ports
- *Displays:*
  - Built-in support for most Apple displays (up to 21 inches)
  - 2MB of fast SGRAM video memory
  - Supports up to 24-bit color (millions of colors) at resolutions of 640 by 480 and 800 by 600 pixels; 16-bit color (thousands of colors) at resolutions up to 1,152 by 870 pixels
  - Supports “flicker-free” 85-hertz refresh rates (640 by 480 and 800 by 600 pixels)
- *Networking and communications:*
  - Built-in LocalTalk networking
  - Built-in 10BASE-T Ethernet or 33.6-Kbps fax/data modem (depends on specific model)
  - Models with built-in modem include fax, speakerphone, and digital voicemail software
- *Audio:*
  - 16-bit stereo recording and playback
  - SRS 3D surround sound enhancement
  - Built-in dual-mode subwoofer
- *Dimensions (HWD):* 16.0 by 7.8 by 16.9 inches (40.6 by 19.8 by 42.8 cm)
- *Weight:* 44.5 lb. (20.2 kg)—will vary based on internal devices installed
- *Other features:*
  - Hardware acceleration of 2D graphics, QuickDraw 3D, video capture, and QuickTime and MPEG-1 movie playback
  - Apple Internet Connection Kit for easy Internet access
  - Apple VideoPhone software for audio and video conferencing via the Internet

- Headphone jack and sound controls located on front panel
- Infrared sensor for remote control of TV and audio CD playback
- Energy-saving sleep mode
- Rugged, “kid-proof” mini-tower enclosure with smoothed edges for easy handling and relocation
- True plug and play: Logic board, CD-ROM drive, and hard disk all slide out for very easy access
  - *Options (may be preinstalled in some models):*
    - 100MB Iomega Zip drive for file transfer and backup
    - Avid Cinema for simple yet powerful video editing
    - Apple Video System for low-cost video input
    - Apple TV/FM Radio System
    - NTSC video out for output to a TV, a VCR, or a camcorder\*
  - *Complete solutions:*
    - The Home Macintosh (includes more than 25 software titles carefully selected for home and family use)
    - The Small Business Macintosh (includes a broad range of software titles carefully selected for running a small or home-based business)
    - The Creative Studio Macintosh (includes award-winning hardware and software for creating and editing your own videos, music, art, 3D models, photos, and Internet sites)
    - Education Solutions (a variety of curriculum-based software bundles available to education customers)

\*Available only as a factory-installed option on some models.

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## Key features

- Features fast RISC-based PowerPC 603e processors.
- Accelerates the creation and playback of rich data types found on today's Internet and multimedia titles.
- Supports 24-bit color on displays up to 17 inches.
- Features a mini-tower enclosure and two PCI expansion slots, for flexibility in configuring the system to provide additional capabilities.
- Supports easy, convenient file sharing, transfer, and backup through its internal Iomega Zip drive (on some models).
- Offers high-speed networking and Internet access through either a standard twisted-pair Ethernet connection or a high-speed, 33.6-Kbps fax/data modem.
- Most models ship with a complete solution bundle, which adds best-of-class software and/or hardware geared to home, small-business, or education use.

# Power Macintosh 7300 Series

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## At a glance

- The Power Macintosh 7300 series combines affordability and high performance to provide an ideal system for small and medium-size businesses, for home offices, and for organizations of any size that run productivity or multimedia applications.
- It offers three PCI slots that enable you to customize the system to your needs, while the PowerPC 604e processor provides the power needed to boost your productivity.

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## Specifications *(Note: Configurations and availability may vary worldwide.)*

- **Processor:** PowerPC 604e with integrated math coprocessor and 64K on-chip cache
- **Speed:** 180 or 200 megahertz
- **Memory:** 16MB or 32MB of RAM, supports up to 512MB
  - Eight 168-pin DIMM slots
  - Standard 256K level 2 cache on DIMM socket
- **Storage:**
  - Internal Apple SuperDrive floppy disk drive
  - Internal 2GB SCSI hard disk drive
  - Internal 12x-speed CD-ROM drive
  - Supports one additional 3.5-inch storage device
- **Expansion capabilities:** Three PCI expansion slots compatible with PCI 2.0-compliant cards; supports six SCSI devices
- **Ports:** Two GeoPort-compatible serial ports, ADB port, monitor port, high-performance SCSI port, 16-bit stereo sound-input/output ports
- **Displays:** Built-in support for most Apple displays; supports display formats up to 1,280 by 1,024 pixels (with 4MB of VRAM)

- *Networking ports:* Built-in LocalTalk and Ethernet (10BASE-T and AAUI-15)
- *Dimensions (HWD):* 6.15 by 14.37 by 16.93 inches (15.6 by 36.5 by 43.0 cm)
- *Weight:* 22.0 lb. (9.97 kg)—will vary based on internal devices installed

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### **Key features**

- Features the RISC-based PowerPC 604e processor.
- Provides three PCI expansion slots, for flexibility in configuring the system to provide additional capabilities.
- Features an easy-access enclosure.
- Includes two built-in Ethernet ports (10BASE-T and AAUI-15), for faster data transfer over a network.
- Comes with 2MB of VRAM.
- Supports 64-bit data path to VRAM.

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### **Other Power Macintosh models to consider**

If your tasks require additional multimedia features, you should consider the Power Macintosh 8600 series, which offers video-input/output capabilities.

# Power Macintosh 7300/180 PC Compatible



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## At a glance

- The Power Macintosh 7300/180 PC Compatible is a powerful system that offers a special plus: outstanding compatibility with the PC world.
- In addition to its PowerPC processor, it includes a card containing a second processor—a Pentium running at 166 megahertz—so you can work in nearly any environment you choose: Mac OS, MS-DOS, Windows 3.1, Windows for Workgroups 3.11, or Windows 95, switching instantly between environments.

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## Specifications *(Note: Configurations and availability may vary worldwide.)*

- **Processors:** PowerPC 604e with integrated math coprocessor, 64K on-chip cache, and 256K level 2 cache; Pentium with integrated math coprocessor, on-chip cache, and 256K level 2 cache
- **Speed:** 180 megahertz for PowerPC processor; 166 megahertz for Pentium processor
- **Memory:** 32MB of RAM, supports up to 512MB (Power Macintosh); 16MB of local RAM (PC Compatibility Card), supports up to 80MB
  - Eight 168-pin DIMM slots; one 168-pin DIMM slot for PC Compatibility Card
- **Storage:**
  - Internal Apple SuperDrive floppy disk drive
  - Internal 2GB SCSI hard disk drive
  - Internal 12x-speed CD-ROM drive
  - Supports one additional 3.5-inch storage device
- **Expansion capabilities:** Three PCI expansion slots compatible with PCI 2.0-compliant cards (one is dedicated to PC Compatibility Card); supports six SCSI devices



- *Ports:* Two GeoPort-compatible serial ports, ADB port, monitor port, high-performance SCSI port, 16-bit stereo sound-input/output ports, PC game port
- *Displays:* Built-in support for most Apple displays as well as many third-party VGA and SVGA displays; separate DSub 15-pin connector provides photo-realistic images with fast-switched video between Mac OS, MS-DOS, and Windows environments (concurrent video support on two monitors)
- *Networking ports:* Built-in LocalTalk and Ethernet (10BASE-T and AAUI-15)
- *Dimensions (HWD):* 6.2 by 14.4 by 16.9 inches (15.7 by 36.6 by 42.9 cm)
- *Weight:* 22.0 lb. (9.97 kg)—will vary based on internal devices installed

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### **Key features**

- Features the RISC-based PowerPC 604e processor.
- Comes with a 166-MHz Pentium processor, for hardware-level compatibility with the MS-DOS and Windows world.
- Provides three PCI expansion slots, for flexibility in configuring the system to provide additional capabilities (one slot is dedicated to the PC Compatibility Card).
- Includes built-in Ethernet (10BASE-T and AAUI-15).
- Comes with 2MB of VRAM (Macintosh logic board) and 2MB of Graphics Accelerated Video DRAM (PC Compatibility Card).
- Supports Sound Blaster 16 stereo sound output for PC multimedia compatibility.

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### **Other Power Macintosh models to consider**

If you need even more power and are interested in working with media, you should consider the Power Macintosh 8600 series, which has video-input/output capabilities and can accommodate a PC Compatibility Card from Apple.

# Power Macintosh 7600/200

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## At a glance

- The Power Macintosh 7600/200 is a flexible computer that offers high performance.
- The RISC-based PowerPC 604e processor running at 200 megahertz gives this computer the power you need to get your work done—no matter what your professional computing needs are.

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## Specifications *(Note: Available in Japan only.)*

- *Processor:* PowerPC 604e with integrated math coprocessor and 64K on-chip cache; 256K level 2 cache
- *Speed:* 200 megahertz
- *Memory:* 32MB of RAM, supports up to 136MB
  - Eight 168-pin DIMM slots
- *Storage:*
  - Internal Apple SuperDrive floppy disk drive
  - Internal 2GB Fast SCSI hard disk
  - Internal 12x-speed CD-ROM drive
  - Supports one additional 3.5-inch storage device
- *Expansion capabilities:* Three PCI expansion slots; supports six SCSI devices
- *Ports:* Two GeoPort-compatible serial ports, ADB port, monitor port, video-input ports (composite and S-video), digital audio/video (DAV) connector, audio line input/output ports, dual-channel high-performance SCSI port, 16-bit stereo sound-input/output ports
- *Displays:* Built-in support for most Apple displays; supports display formats up to 1,280 by 1,024 pixels (with 4MB of VRAM)

- *Networking ports:* Built-in LocalTalk and Ethernet (10BASE-T and AAUI-15)
- *Dimensions (HWD):* 6.15 by 14.37 by 16.93 inches (15.6 by 36.5 by 43.0 cm)
- *Weight:* 22.0 lb. (9.97 kg)—will vary based on internal devices installed

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### **Key features**

- Features the RISC-based PowerPC 604e processor.
- Provides three PCI expansion slots, for flexibility in configuring the system to provide additional capabilities.
- Features an easy-access enclosure.
- Offers built-in Fast SCSI for faster data transfer.
- Includes two built-in Ethernet ports (10BASE-T and AAUI-15), for faster data transfer over a network.
- Comes with 2MB of VRAM.
- Supports 64-bit data path to VRAM.
- Provides built-in digital video-input capabilities.

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### **Other Power Macintosh models to consider**

If your tasks might require even more multimedia features and greater storage capacity, you should consider the Power Macintosh 8600 series, which offers video-output capability, an internal Iomega Zip drive, and space for additional 5.25-inch storage devices.

# Power Macintosh 8600 Series

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## At a glance

- The Power Macintosh 8600 series models are based on the latest PowerPC processor for higher speeds, and offer 1MB of Apple inline cache (level 2) with built-in video-input/output capabilities.
- The increased performance, built-in video capabilities, and high-speed AV-capable hard disk drive make these computers ideal for users engaged in media authoring, in-house publishing, or any of a variety of content creation tasks.
- These systems also feature easy addition of functionality and servicing through their convenient, space-saving tower design, which lets you gain access to the logic board in just seconds.

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## Specifications *(Note: Configurations and availability may vary worldwide.)*

- **Processor:** New PowerPC 604e with integrated math coprocessor and 32K on-chip data cache and 32K instruction cache; 1MB of Apple inline cache (level 2) on processor card
- **Speed:** 250 or 300 megahertz
- **Memory:** 32MB of RAM, supports up to 512MB
  - Eight 168-pin DIMM slots
- **Storage:**
  - Internal Apple SuperDrive floppy disk drive
  - Internal 4GB Fast SCSI hard disk drive
  - Internal 24x-speed CD-ROM drive
  - Internal Iomega Zip drive
  - Expansion bays for additional storage devices—four 5.25-inch removable bays, three internal bays (open bays vary with configuration)
- **Expansion capabilities:** Three PCI expansion slots; supports six SCSI devices

- *Ports:* Two GeoPort-compatible serial ports, ADB port, monitor port, DAV connector, video-input/output ports (composite and S-video), audio line input/output ports, dual-channel high-performance SCSI port, 16-bit stereo sound-input/output ports
- *Displays:* Built-in support for most Apple displays; supports display formats up to 1,280 by 1,024 pixels
- *Networking ports:* Built-in LocalTalk and Ethernet (10BASE-T and AAUI-15)
- *Dimensions (HWD):* 17.3 by 9.7 by 17.3 inches (44.0 by 24.6 by 44.0 cm)
- *Weight:* 35.0 lb. (15.9 kg)—will vary based on internal devices installed

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### Key features

- Features the next-generation RISC-based PowerPC 604e processor design and Apple inline cache, to provide unprecedented power for your Power Macintosh computer.
- Provides built-in digital video-input/output capabilities.
- Gives you easy access to the logic board and includes three PCI expansion slots, for flexibility in configuring the system to provide additional capabilities.
- Includes an Iomega Zip drive for data transmission and backup.
- Offers built-in Fast SCSI for faster data transfer.
- Has two built-in Ethernet ports (10BASE-T and AAUI-15), for faster data transfer over a network.
- Supports 24-bit video input, with a real-time playthrough of up to 640 by 480 pixels with NTSC, and 24-bit video output.

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### Other Power Macintosh models to consider

For greater flexibility, you should consider the Power Macintosh 9600 series systems, which offer twice the flexibility—six PCI expansion slots.

# Power Macintosh 9600 Series

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## At a glance

- The Power Macintosh 9600 series models are based on the latest PowerPC processor for higher speeds, and offer 1MB of Apple inline cache (level 2) as well as a built-in accelerated graphics card.
- The increased performance offered by these computers brings new levels of functionality to the desktop for even the most complex capabilities—such as real-time manipulation of complex three-dimensional images—making them ideal for professionals in a variety of creative fields.
- These systems also feature easy addition of functionality and servicing, through their convenient, space-saving tower design, which lets you gain access to the logic board in just seconds.

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## Specifications *(Note: Configurations and availability may vary worldwide.)*

- **Processor:** New PowerPC 604e with integrated math coprocessor and 32K on-chip data cache and 32K instruction cache; 1MB of Apple inline cache (level 2) on processor card
- **Speed:** 300 or 350 megahertz
- **Memory:** 64MB of RAM; supports up to 768MB
  - Twelve 168-pin DIMM slots
- **Storage:**
  - Internal Apple SuperDrive floppy disk drive
  - Internal 4GB Fast SCSI hard disk drives
  - Internal 24x-speed CD-ROM drive
  - Internal Iomega Zip drive
  - Expansion bays for additional storage devices—four 5.25-inch removable bays, three internal bays (open bays vary with configuration)



- *Expansion capabilities:* Six PCI expansion slots; supports six SCSI devices
- *Ports:* Two GeoPort-compatible serial ports, ADB port, monitor port, dual-channel high-performance SCSI port, 16-bit stereo sound-input/output ports
- *Displays:* Support for Apple displays via built-in PCI-based accelerated graphics card (8MB VRAM IMS Twin Turbo); supports display formats up to 1,600 by 1,200 pixels
- *Networking ports:* Built-in LocalTalk and Ethernet (10BASE-T and AAUI-15)
- *Dimensions (HWD):* 17.3 by 9.7 by 17.3 inches (44.0 by 24.6 by 44.0 cm)
- *Weight:* 35.0 lb. (15.9 kg)—will vary based on internal devices installed

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### Key features

- Features the next-generation RISC-based PowerPC 604e processor design; Apple inline cache on the processor card provides direct access to the cache on the 100-MHz bus, for unprecedented power in your Power Macintosh computer.
- Includes a built-in accelerated graphics card featuring 8MB of VRAM, for outstanding display capabilities and stunning performance on graphics-intensive applications.
- Gives you easy access to the logic board and includes six PCI expansion slots, for flexibility in configuring the system to provide additional capabilities.
- Includes an Iomega Zip drive for data transmission and backup.
- Offers built-in Fast SCSI for faster data transfer.
- Has two built-in Ethernet ports (10BASE-T and AAUI-15), for faster data transfer over a network.
- Supports 24-bit color at 1,600 by 1,200 pixels.

# Power Macintosh 9600/200MP

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## At a glance

- The Power Macintosh 9600/200MP offers multiprocessing (MP) capabilities, with two PowerPC 604e processors for powerful performance improvements for applications that take advantage of computation-intensive tasks, such as media authoring, publishing, software development, and a variety of technical uses.
- The Power Macintosh 9600/200MP offers high performance and is especially suited for professionals working in advanced color applications, multimedia, and engineering.
- The outstanding performance of this computer brings new capabilities—such as real-time manipulation of complex three-dimensional images—to the desktop.

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## Specifications *(Note: Configurations and availability may vary worldwide.)*

- **Processor:** Two PowerPC 604e processors with integrated math coprocessors and 64K on-chip cache; 512K level 2 cache
- **Speed:** 200 megahertz
- **Memory:** 32MB of RAM, supports up to 768MB  
—Twelve 168-pin DIMM slots
- **Storage:**
  - Internal Apple SuperDrive floppy disk drive
  - AV-capable internal 4GB Fast SCSI hard disk drive
  - Internal 12x-speed CD-ROM drive
  - Expansion bays for additional storage devices—four 5.25-inch removable bays, three internal bays (open bays vary with configuration)
- **Expansion capabilities:** Six PCI expansion slots; supports six SCSI devices

- *Ports:* Two GeoPort-compatible serial ports, ADB port, monitor port, dual-channel high-performance SCSI port, 16-bit stereo sound-input/output ports
- *Displays:* Support for most Apple displays via included accelerated graphics card (most configurations); supports display formats up to 1,280 by 1,024 pixels (4MB of VRAM standard)
- *Networking ports:* Built-in LocalTalk and Ethernet (10BASE-T and AAUI-15)
- *Dimensions (HWD):* 17.3 by 9.7 by 17.3 inches (44.0 by 24.6 by 44.0 cm)
- *Weight:* 35.0 lb. (15.9 kg)—will vary based on internal devices installed

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### Key features

- Features two RISC-based PowerPC 604e processors, which provide unprecedented power for your Power Macintosh computer.
- Offers easy system access through its new tower design.
- Features six PCI expansion slots, for outstanding flexibility in configuring the system to provide additional capabilities.
- Offers a built-in, high-performance, AV-capable internal 4GB Fast SCSI hard disk for faster data transfer.
- Has two built-in Ethernet ports (10BASE-T and AAUI-15), for faster data transfer over a network.
- Comes with 4MB of VRAM; the included accelerated graphics card (most configurations) supports 24-bit color at 1,280 by 1,024 pixels.

# The Twentieth Anniversary Macintosh

★48



## At a glance

*(Note: This product is a special edition, with limited availability. For more information about the Twentieth Anniversary Macintosh, see our web site at [www.twentiethanniversary.apple.com/](http://www.twentiethanniversary.apple.com/).)*

- The Twentieth Anniversary Macintosh represents a unique celebration of Apple's twentieth birthday—commemorating 20 years of engineering for excellence as well as ease of use.
  - It's a very special, limited-edition Macintosh system that offers a glimpse of the future, while paying tribute to the triumphs of past Apple efforts.
  - It comes with a variety of custom service and support offerings, including on-site setup, and three years of hardware repair coverage (parts and labor; eligibility as specified under standard one-year limited warranty) and telephone support on an as-needed basis.\*
- \*Availability may vary by location; check with your authorized Apple reseller.*

## Specifications

- *Processor:* PowerPC 603e with integrated math coprocessor and 32K on-chip cache; 256K level 2 cache
- *Speed:* 250 megahertz
- *Memory:* 32MB of RAM, supports up to 128MB
  - Two DIMM slots
- *Storage:*
  - Internal Apple SuperDrive floppy disk drive
  - Internal 2GB hard disk drive
  - Custom vertical-mount CD-ROM drive
- *Expansion capabilities:* PCI expansion slot; PCI-based communications slot for Ethernet card or fax/modem card

- **Multimedia capabilities:** Custom Acoustimass sound system by Bose with integrated stereo speakers and floor-standing bass unit; integrated Apple TV/FM Radio System; built-in S-video input (and adapter cable for composite video)

- **Display:** 14-inch (12.1-inch diagonal viewable image size) color active-matrix flat-panel display with backlighting; 800- by 600-pixel resolution; thousands of colors

- **Connectivity capabilities:** 33.6-Kbps GeoPort modem and Apple Internet Connection Kit (Internet access requires an Internet service account)

- **Dimensions (HWD):**

- 17.3 by 16.5 by 10.0 inches (43.8 by 41.9 by 25.4 cm) for computer

- 10.6 by 8.3 by 11.8 inches (27.0 by 21.1 by 29.8 cm) for bass unit

- **Weight:**

- 14.9 lb. (6.8 kg) for computer

- 10.5 lb. (4.8 kg) for bass unit

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## Key features

- Is a special, limited-edition Macintosh that features a variety of multimedia and other capabilities in a unique and appealing all-in-one product design.

- Provides a range of audio/video capabilities, including:

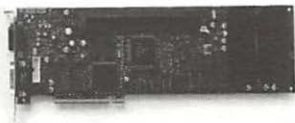
- An outstanding custom Acoustimass sound system by Bose, with integrated stereo speakers and a floor-standing bass unit.

- An integrated Apple TV/FM Radio System—so you can watch anything from Fox's *Married with Children* to Bergman's *Scenes from a Marriage* (as long as it's being televised), and listen to everything from rock to Rachmaninoff.

- Offers built-in S-video input, as well as an adapter cable for composite video.

- Includes a high-speed modem and Internet access software, so it's easy to go online wherever you are (requires an Internet service account).

- Features a custom keyboard with adjustable trackpad and Italian leather palm rests.



## **PC Compatibility Card from Apple**

Apple's PC Compatibility Card can turn any Power Macintosh computer with a 12-inch PCI slot into a flexible, versatile system that can run more software than any other mainstream personal computer. This user-installable 12-inch PCI card includes a 166-megahertz Pentium processor with built-in math coprocessor, 256K level 2 cache, and 16MB of local RAM (supports up to 80MB), as well as a PC game port. It comes with QuickTime for the Mac OS and Windows and MS-DOS 6.22, and is compatible with Windows 3.1, Windows for Workgroups 3.11, and Windows 95. (Note: The PC Compatibility Card does not support Windows NT or OS/2.) With a Power Macintosh equipped with the PC Compatibility Card, users can move seamlessly—and simply—between Windows applications and applications written for the Mac OS. The PC Compatibility Card also features support for accelerated SVGA video and Sound Blaster 16-compatible multimedia and entertainment applications, as well as networking support for Novell NetWare SPX/IPX, TCP/IP, and NETBEUI protocols in MS-DOS and Windows environments using the built-in Ethernet connector and ODI and NDIS 2.0 drivers (client software is not included).



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## **The QuickDraw 3D Accelerator Card**

The QuickDraw 3D Accelerator Card brings workstation-class 3D acceleration to any Power Macintosh or Macintosh Performa computer with a PCI slot. Working in conjunction with QuickDraw 3D, this easy-to-install card lets you design high-quality 3D scenes and shade and texture objects faster than ever before. You can interact smoothly with 3D models that cover the full screen, and quickly build shadows or add textures. And you'll find that the motion in your 3D animations flows smoothly and looks natural, even when you're working in real time with large, complicated models.

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## **Multimedia and Ethernet options**

- Apple Video System, Apple TV/FM Radio System, and Ethernet cards  138, 83

# Apple Keyboards and Mouse

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## AppleDesign Keyboard

- Sleek, ergonomically designed keyboard for use with any Macintosh computer.
- Adjustable keyboard slope.
- Includes function keys, a numeric keypad, cursor arrow keys, and special screen-editing keys.
- Dual-legend keycaps represent some of the most common functions of the MS-DOS environment.



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## Apple Extended Keyboard II

- Includes function keys, a numeric keypad, cursor arrow keys, and special screen-editing keys.
- Adjustable keyboard slope.
- Ideal for running alternate operating systems or terminal-emulation programs.

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## Apple Desktop Bus Mouse II

- Round shape fits the contour of the palm of the hand.
- Large button allows easy clicking and dragging.
- Front ball design allows finer movements with ease.



# Portable Computers

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# *The PowerBook Advantage*

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## **The PowerBook advantage: Truly portable computing**

- Apple understands the difference between portable computing and desktop computing. That's why Apple PowerBook computers are not just miniature desktop computers—they're designed to fit the specific lifestyle and usage patterns of mobile computer users. Although PowerBook computer systems use the Mac OS, the same system software as the Macintosh desktop systems, their unique design and carefully selected features make PowerBook computers very personal machines.

- Since you'll probably use your PowerBook when you're away from your desk, all of the features you'll need are built in. For example, most PowerBook computers now come equipped with both a PC Card slot and an expansion bay. These features let you customize your system to meet your needs—for example, you can add a wired or wireless modem and an additional hard disk drive or magneto-optical drive. In addition, all PowerBook computers comply with the U.S. Environmental Protection Agency's Energy Star guidelines for energy conservation.

- PowerBook computers currently come in three series: the PowerBook 1000, 2000, and 3000 series. Each series offers a unique set of capabilities, allowing PowerBook computers to meet a range of needs.

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## **The PowerBook 1000 series**

The Macintosh PowerBook 1400cs/117, 1400cs/133, 1400c/133, and 1400c/166 build on Apple's traditional strengths—excellence in design and unparalleled ease of use. Designed to suit users' lifestyles and to meet their individual needs, these "portables with personality"

sport a sleek contoured design, including a flip-up keyboard that makes it easy to access and customize the system. They also offer a unique design feature: a clear exterior panel called a BookCover that lets users personalize these systems' appearance by using any of a variety of colorful, interchangeable inserts. And the PowerBook 1000 series features an internal 8x-speed CD-ROM drive (a removable module that's optional on one configuration and standard on the rest), as well as high-performance PowerPC processors and a large (11.3 inches diagonal) color display (dual-scan on the PowerBook 1400cs/117 and 1400cs/133; active-matrix on the PowerBook 1400c/133 and 1400c/166).

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### **The PowerBook 2000 series**

The Macintosh PowerBook 2400c/180 is the lightest PowerBook computer, yet it features high performance and connectivity. Now you can have a portable with an ultralight weight (only 4.3 pounds) without sacrificing performance.

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### **The PowerBook 3000 series**

The innovative Macintosh PowerBook 3000 series represents the state of the art in notebook computing today. Like the PowerBook 1000 series, these systems feature an expansion bay, PC Card slots, and infrared technology for easy, wireless file sharing. But the PowerBook 3400 systems also offer performance capabilities that rival those of desktop systems, with their high-speed PowerPC 603e processors, large-capacity hard disk drives, and high-quality color displays. Macintosh PowerBook 3400 systems include a high-speed internal CD-ROM drive (most configurations), 16-bit video-output capability, video-input with zoomed video capabilities, and a unique four-speaker sound system—an extensive multimedia feature set. Communications is the other key concern of mobile professionals, and the PowerBook 3400 systems feature built-in Ethernet and high-speed 33.6-Kbps modem capabilities (most configurations). Given this advanced feature set, many users may find that a PowerBook 3400 is the only computer they need.



# Macintosh PowerBook 1400cs/117



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## At a glance

- The PowerBook 1400cs/117 is an advanced color (dual-scan display) portable computer that offers the option of built-in CD-ROM drive capability.
- It features a sleek, contoured design that not only makes it easy to access the system for enhancement or service, but also allows for personal customization through a variety of colorful, interchangeable panels.

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## Specifications *(Note: Configurations and availability may vary worldwide.)*

- *Processor:* PowerPC 603e with integrated math coprocessor and 32K on-chip cache
- *Speed:* 117 megahertz
- *Memory:* 12MB or 16MB of RAM, supports up to 64MB
  - Includes one open memory expansion slot
- *Storage:*
  - Internal 1.4MB Apple SuperDrive floppy disk drive
  - Internal 1GB hard disk drive
  - Internal 8x-speed CD-ROM drive (depending on configuration)
- *Expansion capabilities:* Memory expansion slot; PC Card slot supports two Type I or Type II PC Cards or one Type III PC Card; expansion bay for CD-ROM drive or third-party storage solutions, such as a second hard disk drive, a Zip drive, or a magneto-optical drive; internal expansion slot for video-output or Ethernet cards
- *Ports:* Serial port, ADB port, power adapter port, SCSI port
- *Display:* 11.3-inch (diagonal) dual-scan color SVGA display (thousands of colors)



- *Battery*: High-capacity nickel-metal-hydride; average life: 2 to 4 hours
- *Sound*: 16-bit, CD-quality stereo sound-input/output ports; integrated microphone and speaker
- *Networking*: Built-in LocalTalk port; built-in infrared technology supports IRTalk protocol; Ethernet networking through PC Cards
- *Dimensions (HWD)*: 2.0 by 11.5 by 9.0 inches (5.2 by 29.2 by 22.5 cm)
- *Weight*: 6.7 lb. (3.0 kg) with floppy disk drive installed; 7.0 lb. (3.15 kg) with CD-ROM drive installed
- *Security*: Security slot for locking (requires third-party cable); password security software
- *Other features*:
  - Full-size extended keyboard, palm rests, and Apple trackpad
  - Preinstalled software, including productivity, communications, and Internet access software

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### Key features

- Uses a high-performance, 117-megahertz PowerPC 603e processor, so it can handle even computation-intensive tasks with ease.
- Has a built-in, 11.3-inch dual-scan color display.
- Includes a removable, internal 8x-speed CD-ROM drive (depending on configuration).
- Features a sleek, contoured shape and a variety of colorful panels that let you change the appearance of your computer.
- Lets you flip the keyboard forward for easy access to the system.
- Lets you add Ethernet networking, a wired or wireless modem, RAM, storage, or other capabilities through PC Cards.
- Comes with productivity tools, including the Apple Internet Connection Kit, Claris Organizer, ClarisWorks, and software for remote access and cross-platform compatibility.
- Qualifies for the EPA Energy Star rating (U.S.A.).

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### Other Macintosh PowerBook models to consider

The Macintosh PowerBook 1400c/133 features an active-matrix color SVGA display, a larger hard disk drive, and a faster processor.

# Macintosh PowerBook 1400cs/133 and 1400c/133



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## At a glance

- The PowerBook 1400cs/133 and 1400c/133 are CD-ROM-equipped systems that offer a high-quality color display.
- They feature a sleek, contoured design that not only makes them easy to service, but also allows for personal customization through colorful, interchangeable panels.

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## Specifications *(Note: Configurations and availability may vary worldwide.)*

- *Processor:* PowerPC 603e with integrated math coprocessor and 32K on-chip cache; 128K level 2 cache
- *Speed:* 133 megahertz
- *Memory:* 16MB of RAM, supports up to 64MB
  - Includes one open memory expansion slot
- *Storage:*
  - Internal 1.4MB Apple SuperDrive floppy disk drive
  - Internal 1.3GB hard disk drive
  - Internal 8x-speed CD-ROM drive
- *Expansion capabilities:* Memory expansion slot; PC Card slot supports two Type I or Type II PC Cards or one Type III PC Card; expansion bay for CD-ROM drive or third-party storage solutions, such as a second hard disk drive or a magneto-optical drive
- *Ports:* Serial port, ADB port, video-output port (optional), power adapter port, SCSI port
- *Display:* 11.3-inch (diagonal) color SVGA display (thousands of colors); dual-scan for the PowerBook 1400cs/133, active-matrix for the PowerBook 1400c/133

- **Battery:** High-capacity Type III nickel-metal-hydride; average life: 2 to 4 hours
- **Sound:** 16-bit, CD-quality stereo sound-input/output ports; integrated microphone and speakers
- **Networking:** Built-in LocalTalk port; built-in infrared technology supports IRTalk protocol; Ethernet networking through PC Cards
- **Dimensions (HWD):** 2.0 by 11.5 by 9.0 inches (5.2 by 29.2 by 22.5 cm)
- **Weight:** 6.6 lb. (3.0 kg) with floppy disk drive installed; 6.9 lb. (3.1 kg) with CD-ROM drive installed
- **Security:** Security slot for locking (requires third-party cable; secures battery and expansion bay)
- **Other features:**
  - Full-size keyboard, palm rests, and Apple trackpad
  - Preinstalled software, including productivity, communications, and Internet access software

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### Key features

- Uses a high-performance, 133-megahertz PowerPC 603e processor, to handle even computation-intensive tasks with ease.
- Has an 11.3-inch display that supports thousands of colors.
- Includes a removable internal 8x-speed CD-ROM drive.
- Features a sleek, contoured shape and a variety of colorful panels that let you change the appearance of your computer.
- Lets you flip the keyboard forward for easy access to the system.
- Lets you add Ethernet networking, a wired or wireless modem, RAM, storage, or other capabilities through PC Cards.
- Comes with productivity tools, including the Apple Internet Connection Kit, Claris Organizer, ClarisWorks, and software for remote access and cross-platform compatibility.
- Qualifies for the EPA Energy Star rating (U.S.A.).

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### Other Macintosh PowerBook models to consider

The PowerBook 1400c/166 comes with a faster processor and a larger hard disk. For a lightweight yet powerful portable computer, consider the PowerBook 2400c/180. Or for advanced performance, multimedia, and communications capabilities, consider the Macintosh PowerBook 3400 series.

# Macintosh PowerBook 1400c/166



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## At a glance

- The PowerBook 1400c/166 is a CD-ROM–equipped PowerBook that offers a high-quality, active-matrix color display.
- It features a sleek, contoured design that not only makes it easy to service, but also allows for personal customization through colorful, interchangeable panels.

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## Specifications *(Note: Configurations and availability may vary worldwide.)*

- *Processor:* PowerPC 603e with integrated math coprocessor and 32K on-chip cache; 128K level 2 cache
- *Speed:* 166 megahertz
- *Memory:* 16MB of RAM, supports up to 64MB  
—Includes one open memory expansion slot
- *Storage:*  
—Internal 1.4MB Apple SuperDrive floppy disk drive  
—Internal 2GB hard disk drive  
—Internal 8x-speed CD-ROM drive
- *Expansion capabilities:* Memory expansion slot; PC Card slot supports two Type I or Type II PC Cards or one Type III PC Card; expansion bay for CD-ROM drive or third-party storage solutions, such as a second hard disk drive or a magneto-optical drive
- *Ports:* Serial port, ADB port, video-output port (optional), power adapter port, SCSI port
- *Display:* 11.3-inch (diagonal) active-matrix color SVGA display (thousands of colors)
- *Battery:* High-capacity Type III nickel-metal-hydride; average life: 2 to 4 hours
- *Sound:* 16-bit, CD-quality stereo sound-input/output ports; integrated microphone and speakers

- *Networking*: Built-in LocalTalk port; built-in infrared technology supports IRTalk protocol; Ethernet networking through PC Cards
- *Dimensions (HWD)*: 2.0 by 11.5 by 9.0 inches (5.2 by 29.2 by 22.5 cm)
- *Weight*: 6.6 lb. (3.0 kg) with floppy disk drive installed; 6.9 lb. (3.1 kg) with CD-ROM drive installed
- *Security*: Security slot for locking (requires third-party cable; secures battery and expansion bay)
- *Other features*:
  - Full-size keyboard, palm rests, and Apple trackpad
  - Preinstalled software, including productivity, communications, and Internet access software

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### Key features

- Uses a high-performance, 166-megahertz PowerPC 603e processor, so it can handle even computation-intensive tasks with ease.
- Has a built-in, 11.3-inch active-matrix display that supports thousands of colors.
- Includes a removable internal 8x-speed CD-ROM drive.
- Features a sleek, contoured shape and a variety of colorful panels that let you change the appearance of your computer.
- Lets you flip the keyboard forward for easy access to the system.
- Lets you add Ethernet networking, a wired or wireless modem, RAM, storage, or other capabilities through PC Cards.
- Includes an expansion bay for a CD-ROM drive, a floppy disk drive, or third-party storage solutions such as an additional hard disk, a Zip drive, or a magneto-optical storage device.
- Comes with productivity tools, including the Apple Internet Connection Kit, Claris Organizer, ClarisWorks, and software for remote access and cross-platform compatibility.
- Qualifies for the EPA Energy Star rating (U.S.A.).

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### Other Macintosh PowerBook models to consider

For a lightweight yet powerful portable computer, consider the PowerBook 2400c/180. Or for advanced performance, multimedia, and communications capabilities, consider the Macintosh PowerBook 3400 series.



# Macintosh PowerBook 2400c/180



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## At a glance

- The Macintosh PowerBook 2400c/180 packs desktop-level performance into a lightweight, compact system.
- This notebook computer is an excellent choice for people on the move—people who want a system with a compact design and ultralight weight without sacrificing performance and connectivity.

## Specifications *(Note: Configurations and availability may vary worldwide.)*

- **Processor:** PowerPC 603e with integrated math coprocessor and 32K on-chip cache; 256K level 2 cache
- **Speed:** 180 megahertz
- **Memory:** 16MB of RAM, supports up to 80MB
  - 16MB on logic board and one memory expansion slot
- **Storage:**
  - External 1.4MB Apple SuperDrive floppy disk drive
  - Internal 1.3GB hard disk drive
- **Expansion capabilities:** Memory expansion slot; PC Card slot supports two Type I or Type II PC Cards or one Type III PC Card
- **Ports:** Serial port, ADB port, video-output port, power adapter port, SCSI port, infrared technology port, stereo sound-input/output ports
- **Display:** 10.4-inch (diagonal) active-matrix color SVGA display supports thousands of colors in 800- by 600-pixel resolution
- **Battery:** Lithium-ion (Lilon); average life: 2 to 4 hours
- **Sound:** 16-bit, CD-quality stereo input/output; integrated microphone and speaker



- *Networking*: Built-in printer/modem port; modem also configurable through PC Card slot; built-in infrared technology supports IRTalk protocols and 1Mb IrDA standard; Ethernet networking through PC Cards

- *Dimensions (HWD)*: 1.9 by 10.5 by 8.4 inches (4.7 by 26.7 by 21.3 cm)

- *Weight*: 4.3 lb. (2.0 kg)

- *Other features*:

- Built-in keyboard complete with 12 function keys; Apple trackpad

- Preinstalled software, including productivity, communications, and Internet access software

- Zoomed video support and graphics acceleration

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### Key features

- Weighs only 4.3 pounds, making it the lightest PowerBook computer.

- Features the high-performance (180 megahertz) PowerPC 603e processor.

- Has a built-in, 10.4-inch active-matrix display.

- Offers a full range of built-in ports for connectivity and networking.

- Includes a PC Card slot for additional storage, communications, or other options.

- Uses lithium-ion batteries for light weight and long battery life.

- Features Apple Location Manager software, which allows you to easily switch system settings that vary by location.

- Comes with the Apple Internet Assistant, ClarisWorks integrated productivity software, and software for remote access and cross-platform compatibility.

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### Other Macintosh PowerBook models to consider

For even faster performance and more built-in multimedia features, consider the Macintosh PowerBook 3400 series.

# Macintosh PowerBook 3400c/180



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## At a glance

- The PowerBook 3400c/180 takes Apple's strengths in ease of use, graphics, and multimedia and not only makes them portable, but enhances them with a host of state-of-the-art extras.
- It's an excellent choice for professionals on the move—people who want advanced performance, multimedia, and communications capabilities, wherever and whenever they need them.

## Specifications *(Note: Configurations and availability may vary worldwide.)*

- **Processor:** PowerPC 603e with integrated math coprocessor and 32K on-chip cache; 256K level 2 cache
- **Speed:** 180 megahertz
- **Memory:** 16MB of RAM, supports up to 144MB—16MB on logic board and one memory expansion slot
- **Storage:**
  - Internal 1.4MB Apple SuperDrive floppy disk drive
  - Internal 1.3GB hard disk drive
  - Internal 6x-speed CD-ROM drive (most configurations)
- **Expansion capabilities:** Memory expansion slot; PC Card slot supports two Type II PC Cards or one Type III PC Card; expansion bay for floppy disk drive, CD-ROM drive, or third-party storage solutions, such as a second hard disk drive, a magneto-optical drive, or a Zip drive
- **Ports:** GeoPort-compatible serial port, ADB port, VGA video-output port, power adapter port, SCSI port, infrared technology port, stereo sound-input port (supports PlainTalk microphone), stereo sound-output port
- **Display:** 12.1-inch (diagonal) active-matrix color SVGA display supports thousands of colors in 800- by 600-pixel resolution

- *Battery:* Lithium-ion (Lilon); average life: 2 to 4 hours; also supports nickel-metal-hydride (NiMH) battery technology
- *Sound:* Four built-in speakers with active crossover for rich sound quality; 16-bit, CD-quality stereo input/output; integrated microphone
- *Networking:* Built-in 10BASE-T Ethernet (most configurations); built-in 33.6-Kbps modem (most configurations); modem also configurable through PC Card slot; built-in infrared technology supports IRTalk protocols and 1Mb IrDA standard
- *Dimensions (HWD):* 2.4 by 11.5 by 9.5 inches (6.1 by 29.2 by 24.1 cm)
- *Weight:* 7.2 lb. (3.2 kg) with floppy disk drive installed; 7.4 lb. (3.3 kg) with CD-ROM drive module installed; 6.9 lb. (3.1 kg) with PC Card carrying case installed
- *Security:* Security slot for locking; password security software
- *Other features:*
  - Full-size keyboard and Apple trackpad
  - Preinstalled software, including productivity, communications, and Internet access software
  - Zoomed video ready

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## Key features

- Features the high-performance PowerPC 603e processor.
- Has a built-in, 12.1-inch active-matrix display that supports thousands of colors in 800- by 600-pixel resolution.
- Includes a 6x-speed CD-ROM drive (most configurations).
- Comes with built-in Ethernet networking (10BASE-T) and a 33.6-Kbps modem (most configurations). Modem capabilities can also be configured through the PC Card slot.
- Includes an expansion bay for storage options.
- Features Apple Location Manager software, which allows you to easily switch system settings that vary by location.
- Comes with the Apple Internet Connection Kit, Claris Organizer, and software for remote access and cross-platform compatibility.

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## Other Macintosh PowerBook models to consider

For even faster performance and greater hard disk storage, consider the Macintosh PowerBook 3400c/200 and 3400c/240.

# Macintosh PowerBook 3400c/200



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## At a glance

- The PowerBook 3400c/200 takes Apple's strengths in ease of use, graphics, and multimedia and not only makes them portable, but enhances them with a host of state-of-the-art extras.
- This notebook system is the optimal choice for professionals on the move—people who want performance, multimedia, and communications capabilities, wherever and whenever they need them.

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## Specifications *(Note: Configurations and availability may vary worldwide.)*

- **Processor:** PowerPC 603e with integrated math coprocessor and 32K on-chip cache; 256K level 2 cache
- **Speed:** 200 megahertz
- **Memory:** 16MB of RAM, supports up to 144MB—16MB on logic board and one memory expansion slot
- **Storage:**
  - Internal 1.4MB Apple SuperDrive floppy disk drive
  - Internal 2GB hard disk drive
  - Internal 6x-speed CD-ROM drive
- **Expansion capabilities:** Memory expansion slot; PC Card slot supports two Type II PC Cards or one Type III PC Card; expansion bay for floppy disk drive, CD-ROM drive, or third-party storage solutions, such as a second hard disk drive, a magneto-optical drive, or a Zip drive
- **Ports:** GeoPort-compatible serial port, ADB port, VGA video-output port, power adapter port, SCSI port, infrared technology port, stereo sound-input port (supports PlainTalk microphone), stereo sound-output port
- **Display:** 12.1-inch (diagonal) TFT active-matrix color SVGA display supports thousands of colors in 800- by 600-pixel resolution

- *Battery*: Lithium-ion (Lilon); average life: 2 to 4 hours; also supports nickel-metal-hydride (NiMH) battery technology
- *Sound*: Four built-in speakers with active crossover for rich sound quality; 16-bit, CD-quality stereo input/output; integrated microphone
- *Networking*: Built-in 10BASE-T Ethernet; built-in 33.6-Kbps modem (most configurations); built-in infrared technology supports IRTalk protocols and 1Mb IrDA standard
- *Dimensions (HWD)*: 2.4 by 11.5 by 9.5 inches (6.1 by 29.2 by 24.1 cm)
- *Weight*: 7.2 lb. (3.2 kg) with floppy disk drive installed; 7.4 lb. (3.3 kg) with CD-ROM drive module installed; 6.9 lb. (3.1 kg) with PC Card carrying case installed
- *Security*: Security slot for locking; password security software
- *Other features*:
  - Full-size keyboard and Apple trackpad
  - Preinstalled software, including productivity, communications, and Internet access software
  - Zoomed video ready

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### Key features

- Features the high-performance PowerPC 603e processor.
- Has a built-in, 12.1-inch active-matrix display that supports thousands of colors in 800- by 600-pixel resolution.
- Includes an internal 6x-speed CD-ROM drive.
- Comes with built-in Ethernet networking (10BASE-T) and a 33.6-Kbps modem (most configurations). Modem capabilities can also be configured through the PC Card slot.
- Includes an expansion bay for a floppy disk drive, a CD-ROM drive, or other third-party storage solutions.
- Features Apple Location Manager software, which allows you to easily switch system settings that vary by location.
- Comes with the Apple Internet Connection Kit, Claris Organizer, and software for remote access and cross-platform compatibility.

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### Other Macintosh PowerBook models to consider

The Macintosh PowerBook 3400c/240 offers a 240-megahertz processor for faster performance.



# Macintosh PowerBook 3400c/240



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## At a glance

- The PowerBook 3400c/240 takes Apple's strengths in ease of use, graphics, and multimedia and not only makes them portable, but enhances them with a host of state-of-the-art extras.
- This top-of-the-line notebook system is the optimal choice for professionals on the move—people who want the utmost in performance, multimedia, and communications capabilities, wherever and whenever they need them.

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## Specifications *(Note: Configurations and availability may vary worldwide.)*

- **Processor:** PowerPC 603e with integrated math coprocessor and 32K on-chip cache; 256K level 2 cache
- **Speed:** 240 megahertz
- **Memory:** 16MB of RAM, supports up to 144MB—16MB on logic board and one memory expansion slot
- **Storage:**
  - Internal 1.4MB Apple SuperDrive floppy disk drive
  - Internal 3GB hard disk drive
  - Internal 12x-speed CD-ROM drive
- **Expansion capabilities:** Memory expansion slot; PC Card slot supports two Type II PC Cards or one Type III PC Card; expansion bay for floppy disk drive, CD-ROM drive, or third-party storage solutions, such as a second hard disk drive, a magneto-optical drive, or a Zip drive
- **Ports:** GeoPort-compatible serial port, ADB port, VGA video-output port, power adapter port, SCSI port, infrared technology port, stereo sound-input port (supports PlainTalk microphone), stereo sound-output port



- *Display*: 12.1-inch (diagonal) TFT active-matrix color SVGA display supports thousands of colors in 800- by 600-pixel resolution
- *Battery*: Lithium-ion (LiIon); average life: 2 to 4 hours; also supports nickel-metal-hydride (NiMH) battery technology
- *Sound*: Four built-in speakers with active crossover for rich sound quality; 16-bit, CD-quality stereo input/output; integrated microphone
- *Networking*: Built-in 10BASE-T Ethernet; built-in 33.6-Kbps modem (most configurations); built-in infrared technology supports IRTalk protocols and 1Mb IrDA standard
- *Dimensions (HWD)*: 2.4 by 11.5 by 9.5 inches (6.1 by 29.2 by 24.1 cm)
- *Weight*: 7.2 lb. (3.2 kg) with floppy disk drive installed; 7.4 lb. (3.3 kg) with CD-ROM drive module installed; 6.9 lb. (3.1 kg) with PC Card carrying case installed
- *Security*: Security slot for locking; password security software
- *Other features*:
  - Full-size keyboard and Apple trackpad
  - Preinstalled software, including productivity, communications, and Internet access software
  - Zoomed video ready

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### Key features

- Features the high-performance PowerPC 603e processor.
- Has a built-in, 12.1-inch active-matrix display that supports thousands of colors in 800- by 600-pixel resolution.
- Includes an internal 12x-speed CD-ROM drive.
- Comes with built-in Ethernet networking (10BASE-T) and a 33.6-Kbps modem (most configurations). Modem capabilities can also be configured through the PC Card slot.
- Includes an expansion bay for a floppy disk drive, a CD-ROM drive, or other third-party storage solutions.
- Features Apple Location Manager software, which allows you to easily switch system settings that vary by location.
- Comes with the Apple Internet Connection Kit, Claris Organizer, and software for remote access and cross-platform compatibility.

# Portable Computer Accessories

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## **Macintosh PowerBook computers**

- Apple HDI-30 SCSI System Cable
- Apple HDI-30 SCSI Disk Adapter
- Macintosh PowerBook Power Adapter
- Macintosh PowerBook Nickel-Metal-Hydrate Battery

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## **GSM Connection Kit for PowerBook**

*(Currently available in Germany, the United Kingdom, Sweden, Denmark, Norway, and Finland; subsequent adaptations for other markets in both European and non-European countries will depend on the availability and range of GSM data services.)*

This kit lets you connect your notebook computer to the GSM and DCS 1800 networks via the Nokia 2110 and 2140 handsets and the Nokia Cellular Data Card. It also provides access to a full range of mobile communications services, including fax capabilities and connection to online services, as well as wireless connection to office networks via Apple Remote Access and gateways to networks such as ISDN and VideoText.

# Servers

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# *The Apple Server Advantage*

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## **Why buy a server from Apple?**

Since every Macintosh system includes built-in file sharing, you might wonder why you should buy a dedicated server from Apple. The answer is simple: enhanced productivity and performance.

Apple's servers are highly reliable systems with large storage capacity that provide organizations with faster, more efficient network services and secure centralized storage. You'll be amazed at the productivity gains you'll see with a server from Apple. Our Workgroup Servers are fast, they're complete, and the hardware and software are pretested to work together seamlessly. And because Apple understands the critical role servers play in an organization, our servers come with round-the-clock support.\*

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## **Powerful capabilities and unmatched ease of administration**

Servers from Apple are advanced, high-performance systems that are optimized to provide outstanding file, print, Internet, and applications service. Yet despite their powerful nature, they are exceptionally easy to administer—exhibiting the unparalleled ease of use that has become the hallmark of the Mac OS.

Apple servers offer a range of price/performance options to meet your needs—the Workgroup Server 7350/180, 9650/233, and 9650/350 provide the ultimate in performance, reliability, and scalability. No matter which model is right for you, when you buy a server from Apple, you get a system that's optimized for excellent value, outstanding performance, and easy administration.

\*Support details may vary by region; see your Apple reseller for further information.

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## **The Workgroup Server 7350/180 and 9650/233**

These servers represent the ongoing evolution of Apple's Mac OS-based Workgroup Server line. They feature faster RISC-based PowerPC processors than earlier models, and run the new AppleShare IP 5.0 software, which offers significant performance and functionality increases over previous versions. In addition, these servers are equipped with faster CD-ROM drives (12x-speed) and larger hard disk drives (4GB on the 7350/180; 4GB Ultra/Wide on the 9650/233, with an option for dual 4GB drives).

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## **★ The Workgroup Server 9650/350**

The top-of-the-line server features an extremely fast, 350-megahertz PowerPC processor with 1MB of Apple inline cache on the processor card, which can be accessed directly through a 100-megahertz bus. It also features a 24x-speed CD-ROM drive, as well as an additional networking option: support for 100T Ethernet connections. And in addition to Mac OS 7.6.1, it includes the latest version of the popular Macintosh system software: Mac OS 8.

**73★**

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## **Server software bundle options**

Like their predecessors, Apple's current Workgroup Server models are available with a choice of three different high-value software bundles—the Applications Server Solution, the AppleShare Server Solution, and the Apple Internet Server Solution. These bundles are designed around the three most common server functions, and consist of state-of-the-art software designed to help you get the most out of your Workgroup Server in each of these three areas. For example, the AppleShare Server Solution features the new AppleShare IP 5.0 software, while the Apple Internet Server Solution transforms a Workgroup Server into an easy-to-use, highly capable Internet server, designed to make establishing a presence on the World Wide Web accessible to a broader range of users than ever before. (For more detailed information on software titles, see the following product pages.)



# Workgroup Server 7350/180



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## At a glance

- The Workgroup Server 7350/180 is a versatile midrange server system based on the PowerPC 604e RISC processor.
- It delivers the file and print, database, Internet, and applications server capabilities that meet the needs of medium-size workgroups in education, business, and publishing.

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## Specifications

- *Processor:* PowerPC 604e with integrated math coprocessor and 64K on-chip cache; 256K level 2 cache
- *Speed:* 180 megahertz
- *Memory:* 48MB of RAM, supports up to 512MB
  - Eight 168-pin DIMM slots
- *Storage:*
  - Internal Apple SuperDrive floppy disk drive
  - Internal 4GB hard disk drive (5,400 rpm)
  - Space for one additional hard disk drive or removable storage device
  - Internal 12x-speed CD-ROM drive
- *Expansion capabilities:* Three PCI slots; two SCSI DMA buses: internal Fast SCSI-2 and external standard SCSI-1
- *Ports:* Two serial ports, ADB port, video-output port, high-performance SCSI port, 16-bit stereo sound-input/output ports
- *Displays:* Built-in support for all Apple displays
- *Networking ports:* Built-in LocalTalk and Ethernet (10BASE-T and AAUI-15)
- *Dimensions (HWD):* 6.5 by 14.4 by 16.9 inches (15.6 by 36.5 by 43.0 cm)
- *Weight:* 22.0 lb. (10.0 kg)—will vary based on internal devices installed



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## Key features

- Features the RISC-based PowerPC 604e processor, which enables it to handle computation-intensive tasks with exceptional speed.

- Has built-in Ethernet capability.

- Features three PCI expansion slots.

- Offers built-in high-performance SCSI for faster data transfer.

- Comes with Mac OS 7.6.1, which includes Open Transport, Apple's enhanced communications standard.

- Includes Apple RAID Software, for increased data protection and performance.

- Comes with a choice of high-value software bundles:

—The Applications Server Solution includes the following software for reliability, productivity, and performance: Adobe Acrobat Reader, Apple RAID Software, Virex from Datawatch, 4-Sight FAX from 4-Sight, Now Up • to • Date & Contact from Now Software, Viper Instant-Access from IT Design, and Skyline/Satellite from AG Group.

—The AppleShare Server Solution includes all of the above software, as well as the new AppleShare IP 5.0 server software (unlimited user license), Server Manager administration software, and RunShare GSA network accelerator.

—The Apple Internet Server Solution gives you all the software necessary to create, manage, and publish media-rich World Wide Web content—quickly and easily. Includes Claris Home Page 2.0; Open Door LogDoor 1.1; Stairways MacTCP Watcher 2.0; Apple MacDNS 1.0.4; Maxum PageSentry 2.1, NetCloak 2.1.1, and Rumpus 1.0 (FTP server); Netscape Navigator 3.0.1; Adobe Acrobat Reader 3.0; Bare Bones BBEdit 4.0.4; EveryWare Tango Enterprise Server 2.1.1 and Butler SQL 2.1.2; GoLive CyberStudio 1.0; ClearWay FireSite Speed Booster Edition 1.0 and FireSite Virtual Domain Manager (VDM) 1.0 (MultiHoming); and StarNine WebSTAR 2.0.2.

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## Other models to consider

If you need a more powerful, flexible server, you should consider the Workgroup Server 9650/233, which features a faster PowerPC processor and is available in configurations that include either a DAT drive or dual 4GB hard disk drives.

# Workgroup Server 9650/233



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## At a glance

- The Workgroup Server 9650/233 offers the extensive file and print, database, Internet, and applications server capabilities needed by large workgroups that use both Mac OS— and Windows-based systems and have high performance requirements.
- It features the advanced PowerPC 604e processor.

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## Specifications

- *Processor:* PowerPC 604e with integrated math coprocessor and 64K on-chip cache; 512K level 2 cache
- *Speed:* 233 megahertz
- *Memory:* 64MB of RAM, supports up to 768MB
  - Twelve 168-pin DIMM slots
- *Storage:*
  - Internal Apple SuperDrive floppy disk drive
  - Single or dual 4GB (7,200 rpm) Ultra/Wide hard disk drives
  - Internal 12x-speed CD-ROM drive
  - Internal digital audio tape (DAT) drive (some configurations)
  - Internal storage bays for three or four additional hard disk drives (depending on configuration)
- *Expansion capabilities:* Six PCI slots; three SCSI buses: internal Ultra/Wide SCSI-3 (40MB/sec) on a PCI card, internal Fast SCSI-2, and external standard SCSI-1
- *Ports:* Two serial ports, ADB port, video-output port, three high-performance SCSI ports, 16-bit stereo sound-input/output ports
- *Displays:* PCI video card supports most Apple displays
- *Networking ports:* Built-in LocalTalk and Ethernet (10BASE-T and AAUI-15); supports TCP/IP networking software with Apple Open Transport
- *Dimensions (HWD):* 17.3 by 9.7 by 17.3 inches (43.9 by 24.6 by 43.9 cm)

- *Weight:* 35.0 lb. (15.9 kg)—will vary based on internal devices installed

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## Key features

- Features the RISC-based PowerPC 604e processor, which enables it to handle computation-intensive tasks with exceptional speed.
- Has built-in Ethernet capability.
- Features six PCI expansion slots.
- Offers three SCSI buses, one of which is Ultra/Wide (40MB/sec).
- Comes with Mac OS 7.6.1, which includes Open Transport, Apple's enhanced communications standard.
- Offers an optional array of dual 4GB Ultra/Wide hard disks.
- Includes Apple RAID Software, for increased data protection and performance.

• Comes with a choice of high-value software bundles:

—The Applications Server Solution includes the following software for reliability, productivity, and performance: Adobe Acrobat Reader, Apple RAID Software, Virex from Datawatch, 4-Sight FAX from 4-Sight, Now Up •to• Date & Contact from Now Software, Viper Instant-Access from IT Design, and Skyline/Satellite from AG Group.

—The AppleShare Server Solution includes all of the above software, as well as the new AppleShare IP 5.0 server software (unlimited user license), Server Manager administration software, and RunShare GSA network accelerator.

—The Apple Internet Server Solution gives you all the software necessary to create, manage, and publish media-rich World Wide Web content—quickly and easily. Includes Claris Home Page 2.0; Open Door LogDoor 1.1; Stairways MacTCP Watcher 2.0; Apple MacDNS 1.0.4; Maxum PageSentry 2.1, NetCloak 2.1.1, and Rumpus 1.0 (FTP server); Netscape Navigator 3.0.1; Adobe Acrobat Reader 3.0; Bare Bones BBEdit 4.0.4; EveryWare Tango Enterprise Server 2.1.1 and Butler SQL 2.1.2; GoLive CyberStudio 1.0; ClearWay FireSite Speed Booster Edition 1.0 and FireSite Virtual Domain Manager (VDM) 1.0 (MultiHoming); and StarNine WebSTAR 2.0.2.

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## Other models to consider

If you need an exceptionally powerful yet easy-to-use server, you should consider the Workgroup Server 9650/350.

# Workgroup Server 9650/350



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## At a glance

- The Workgroup Server 9650/350 is Apple's fastest server, designed to support even highly demanding workgroups.
- It features an extremely fast PowerPC processor with 1MB of inline cache located on the processor card, as well as a 24x-speed CD-ROM drive and an additional Ethernet networking option.
- It includes the latest version of the popular Macintosh system software: Mac OS 8.

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## Specifications

- *Processor:* New PowerPC 604e with integrated math coprocessor and 64K on-chip cache; 1MB Apple inline level 2 cache
- *Speed:* 350 megahertz
- *Memory:* 64MB of RAM, supports up to 768MB
  - Twelve 168-pin DIMM slots
- *Storage:*
  - Internal Apple SuperDrive floppy disk drive
  - Dual 4GB (7,200 rpm) Ultra/Wide hard disk drives
  - Internal 24x-speed CD-ROM drive
  - Internal storage bays for three additional hard disk drives
- *Expansion capabilities:* Six PCI slots (three are dedicated to SCSI, video, and Ethernet support); three SCSI buses: internal Ultra/Wide SCSI-3 (40MB/sec) on a PCI card, internal Fast SCSI-2, and external standard SCSI-1
- *Ports:* Two serial ports, ADB port, video-out port, three high-performance SCSI ports, 16-bit stereo sound-input/output ports
- *Displays:* PCI video card supports most Apple displays
- *Networking ports:* Built-in LocalTalk and Ethernet (100T, 10BASE-T, and AAUI-15); supports TCP/IP networking software with Apple Open Transport

- *Dimensions (HWD)*: 17.3 by 9.7 by 17.3 inches (43.9 by 24.6 by 43.9 cm)
- *Weight*: 35.0 lb. (15.9 kg)—will vary based on internal devices installed

## Key features

- Features the next-generation PowerPC 604e processor with 1MB of directly accessible inline cache on the processor card, which enables the processor to handle computation-intensive tasks with exceptional speed.
- Has built-in Ethernet capability and includes support for 100T Ethernet connections.
- Features six PCI expansion slots.
- Offers three SCSI buses, one of which is Ultra/Wide (40MB/sec).
- Comes with the latest version of the popular Macintosh system software: Mac OS 8, as well as Mac OS 7.6.1.
- Offers an array of dual 4GB Ultra/Wide hard disks.
- Includes Apple RAID Software, for increased data protection and performance.
- Comes with a choice of high-value software bundles:
  - The Applications Server Solution includes the following software for reliability, productivity, and performance: Adobe Acrobat Reader, Apple RAID Software, Virex from Datawatch, 4-Sight FAX from 4-Sight, Now Up • to • Date & Contact from Now Software, Viper Instant-Access from IT Design, and Skyline/Satellite from AG Group.
  - The AppleShare Server Solution includes all of the above software, as well as the new AppleShare IP 5.0 server software (unlimited user license), Server Manager administration software, and RunShare GSA network accelerator.
  - The Apple Internet Server Solution gives you all the software necessary to create, manage, and publish media-rich World Wide Web content—quickly and easily. Includes Claris Home Page 2.0; Open Door LogDoor 1.1; Stairways MacTCP Watcher 2.0; Apple MacDNS 1.0.4; Maxum PageSentry 2.1, NetCloak 2.1.1, and Rumpus 1.0 (FTP server); Netscape Navigator 3.0.1; Adobe Acrobat Reader 3.0; Bare Bones BBEEdit 4.0.4; EveryWare Tango Enterprise Server 2.1.1 and Butler SQL 2.1.2; GoLive CyberStudio 1.0; ClearWay FireSite Speed Booster Edition 1.0 and FireSite Virtual Domain Manager (VDM) 1.0 (MultiHoming); and StarNine WebSTAR 2.0.2.

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# Networking Products

# Apple Networking Products

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## **You can easily connect your Macintosh to almost any kind of network or computing platform**

- *The easy and consistent Macintosh approach.* Macintosh lets you connect to an IBM mainframe across town just as readily as to an AppleShare file server in the next room. Using AppleTalk, the networking system built into every Macintosh, any device on the network can appear as an icon on your screen. AppleTalk lets you navigate complex networks without special skills, and it readily adapts to different technologies.

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- *Networking options.* You can begin by connecting your Macintosh computers using LocalTalk cables that plug into any Macintosh. Should you require more speed, you can move to an Ethernet or Token Ring network. This will speed printing of documents, delivery of electronic mail, and transfer of large documents and QuickTime video segments. With the addition of the Apple LocalTalk Bridge, you can connect your Macintosh computers to a faster network while maintaining LocalTalk network connectivity.  85

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## **LocalTalk networks**

Every Macintosh comes with AppleTalk networking capability, including software and a LocalTalk networking port. A LocalTalk network costs little to install, is easy to maintain, and transmits information with high reliability at 230.4 kilobits per second.

- *LocalTalk Locking Connector Kit—DB-9.* This is used for connecting Macintosh 128K, 512K, and 512K Enhanced computers and original LaserWriter and LaserWriter Plus printers to a LocalTalk network. The kit contains one LocalTalk connector with a DB-9 plug, and two meters of LocalTalk cable.

- *LocalTalk Locking Connector Kit—DIN-8.* This is used for connecting Apple IIGs, Macintosh Plus, and newer Macintosh computers and LaserWriter printers to a LocalTalk network. The kit contains one LocalTalk connector with a circular 8-pin plug (DIN-8), and two meters of LocalTalk cable.
- *LocalTalk RJ-11 Connector.* This connector comes in two versions, sold separately. It connects any Macintosh computer or LaserWriter printer to a LocalTalk network using unshielded twisted-pair LocalTalk network cable (silver-satin phone cable).

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## Ethernet networks

Built-in Ethernet connectivity is provided through an Apple Ethernet port in the Macintosh Centris 650, most Macintosh Quadra computers, most Power Macintosh computers, all Workgroup Servers and Network Servers, and several LaserWriter printers. Just choose the appropriate Apple Ethernet transceiver to match your cabling system. For all other Macintosh computers, Apple offers several interface cards that enable access to Ethernet networks. Apple also offers the portable, easy-to-install Apple Ethernet 10T/5 Workgroup Hub for creating or extending 10BASE-T Ethernet networks. All Apple Ethernet solutions comply with IEEE 802.3 standards, include EtherTalk software, and support a variety of popular networking protocols.

- *Apple Ethernet 10T/5 Workgroup Hub.* This portable, 5-port IEEE 802.3-compliant Ethernet hub allows you to create or extend 10BASE-T Ethernet networks quickly and easily. It comes with one Apple AUI (attachment unit interface) Connector and four RJ-45 connectors, and can be used with Apple's Ethernet twisted-pair products. An optional external power adapter is available. Any Macintosh, PowerBook, printer, or Ethernet card with an Apple AUI port can serve as a host to supply power and a network connection.
- *Apple Ethernet Twisted-Pair Transceiver.* This connects all Macintosh computers or Ethernet cards equipped with an Apple Ethernet port to a 10BASE-T Ethernet network using industry-standard twisted-pair cable.

- *Apple Ethernet Thin Coax Transceiver*. This connects all Macintosh computers or Ethernet cards equipped with an Apple Ethernet port to Thin Coax Ethernet networks using thin coaxial cable.
- *Apple Ethernet AUI Adapter*. This adapter adds an IEEE 802.3 AUI to any Macintosh computer or Ethernet card equipped with an Apple Ethernet port, and can be used to connect to external transceivers for use with fiber-optic, thick coaxial, and other Ethernet media.
- *Apple Ethernet LC Card*. This card comes with an Apple Ethernet port and connects Macintosh Color Classic; Macintosh LC, LC II, LC III, LC 475, and LC 520; Macintosh Quadra 605; and most Macintosh Performa computers to any Ethernet network.
- *Apple Ethernet LC Twisted-Pair Card*. This card connects Macintosh Color Classic; Macintosh LC, LC II, LC III, LC 475, and LC 520; Macintosh Quadra 605; and most Macintosh Performa computers to IEEE 802.3 10BASE-T Ethernet networks. It has a built-in RJ-45 connector, which allows you to connect directly to a 10BASE-T hub. No transceiver required.
- *Apple Ethernet CS Twisted-Pair Card*. This card works with all Macintosh models that have a communications slot, such as the Macintosh LC 575, LC 580, and LC 630; the Macintosh Quadra 630; the Macintosh Performa 570, 580, 630 series, 5200CD series, 5300CD series, 6200CD series, and 6300CD; and the Power Macintosh 5200/75 LC, 5300/100 LC, and 6200/75. It has a built-in RJ-45 connector, which allows you to connect directly to an IEEE 802.3 10BASE-T hub. No transceiver required.

- *Apple Ethernet CS Thin Coax Card.* This card works with all Macintosh models that have a communications slot. It has a built-in BNC connector, which allows you to connect to IEEE 802.3 thin coax networks using thin coaxial cable. No transceiver required.
- *Apple Ethernet CS AAUI Card.* This card comes with an Apple Ethernet port and works with all Macintosh models that have a communications slot. It can also serve as a host connection to the Apple Ethernet 10T/5 Workgroup Hub.

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### **Token Ring networks**

Token Ring networks often serve a mixture of personal computers, minicomputers, and mainframes. Software drivers and hardware for Token Ring networks are available for Macintosh II, Macintosh Centris, Macintosh Quadra, and Power Macintosh computers, as well as for the Workgroup Servers.

- *Apple PCI Token Ring Card.* This compact card connects any Macintosh computer, Workgroup Server, or Power Macintosh computer equipped with a PCI slot to an IEEE 802.5 Token Ring network running at either 4 or 16 megabits. This high-performance card is suitable for both servers and client workstations.

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### **Integrating LocalTalk with other networks**

- *Apple LocalTalk Bridge software.* This product enables you to extend the networking reach of your current system by bridging your LocalTalk network to Ethernet or Token Ring networks. You can gain access to shared resources on the Ethernet or Token Ring network, such as file servers, electronic mail, or mainframe systems, while maintaining a seamless connection to LocalTalk-based systems and LaserWriter printers.





# Printers, Displays, & Imaging Products

# *The Apple Printer Advantage*

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## **Apple printers come complete**

All essential features are built in. There's no need to buy interface cards, additional RAM, or special printer drivers.

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## **They're incredibly easy to set up and use**

Setting up any Apple printer is a simple matter of connecting a cable from the back of your computer to the back of the printer. And connecting an Apple printer to a network is just as simple.

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## **They're compatible**

If you can create it on a Macintosh screen, you can print it on an Apple printer. Our printers can be used with virtually any Mac OS-based computers. And many of our printers can also be used with Windows systems and some UNIX-based systems, as well as with computers running the Mac OS, and can connect easily to networks serving mixed workgroup environments.

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## **They're versatile**

No matter which printer you choose, you'll get great printed results. All Apple printers let you use fonts in a wide range of sizes. And most let you print on a variety of materials.

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## **They offer excellent print quality, through Apple's core technologies**

Apple has developed six key technologies that not only make scanning simpler and printing crisper, but also make adding images to your work easier than ever.

- *TrueType*. With Apple's TrueType outline font technology, even the most affordable Apple printers can exceed the type quality of most printers currently on the market. All TrueType fonts produce type that's perfect at any size.



- *FinePrint*. Apple laser printers with FinePrint technology print dots of different widths, producing precise, smooth text and line art.



- *PhotoGrade*. PhotoGrade makes it possible for some Apple laser printers to generate images with as many as 91 shades of gray, producing printed photographs that closely resemble the originals.



- *Color PhotoGrade*. This innovative printing technology dramatically increases the number of shades of color and the amount of detail in text, graphics, or images.



- *GrayShare*. GrayShare technology is part of Apple printers that use QuickDraw software. It gives them gray-scale printing and printer sharing capabilities.



- *ColorSync 2.1*. Apple's ColorSync software is a color-matching solution that works behind the scenes with Mac OS applications, making sure that colors are consistent across input, display, and output devices.



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## **There's a printer for every task—and budget**

With a family of printers to choose from, you can be certain that there's an Apple printer to meet your needs. You can also rest assured that your Apple printer will continue to do so for a long time to come: All of our printers are designed to provide years of dependable service.

# ImageWriter II



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**At a glance** *(Note: This product is available to education customers only.)*

- The ImageWriter II is a dot-matrix printer well suited for classroom, personal, and professional use.
- It's ideal for printing on continuous-feed paper, such as payroll checks or preprinted forms.

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## Specifications

- *Resolution:* 144 dots per inch
- *Printing speed:* 0.5 page per minute (best mode); 2 pages per minute (draft mode)
- *Processor:* Uses the computer's processor
- *Supported languages:* QuickDraw, QuickDraw GX
- *Fonts:* Built-in character sets for English, Italian, Danish, German, Swedish, French, and Spanish
- *Paper handling:* Supports both cut-sheet and fanfold continuous paper (3 to 10 inches in width); prints forms, labels, envelopes
- *Connectivity and networking:* Serial port; optional LocalTalk connector supports AppleTalk protocol
- *Dimensions (HWD):* 5.0 by 17.0 by 12.0 inches (12.7 by 43.2 by 30.5 cm)
- *Weight:* 15.0 lb. (6.8 kg)
- *Recommended number of users:* One to three (with LocalTalk option)

- *Other features:*

- Capable of printing color documents (requires color ribbon)
- Can be equipped with a cut-sheet feeder, which holds as many as 100 single-sheet pages of cut-sheet paper
- Energy Star compliant

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**Key features**

- Prints dot-matrix format, so it's good for drafts, and can handle multipart forms.
- Has tractor-feed feature, which allows it to print on continuous-feed paper.
- Prints in two modes—draft mode and best mode.
- Can print on envelopes and labels.
- Can print in color (requires color ink ribbon).
- Is compatible with Apple II and Macintosh computers.
- Qualifies for the EPA Energy Star rating (U.S.A.) as an energy-efficient product.

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**Accessories**

- ImageWriter II/LQ LocalTalk Option
- ImageWriter II Cut Sheet Feeder
- ImageWriter II 32K Memory Option

# Color StyleWriter 4100



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## At a glance

- The Color StyleWriter 4100 is an affordable four-color ink-jet printer that comes with everything you need to start printing—right out of the box.
- It's designed for home and education users who work with Mac OS-based computers.
- It's optimized for productivity, learning, and family fun—and features bundled software for creative printing projects.

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## Specifications

- *Resolution:* Up to 600 by 600 dots per inch (dpi) for black and white; up to 600 by 300 dpi for color
- *Printing speed:* Up to 4 pages per minute (black and white); up to 1.5 pages per minute (color)
- *Processor:* Uses the computer's processor
- *Memory:* 62K input buffer
- *Supported languages:* QuickDraw
- *Fonts:* Up to 64 scalable TrueType fonts; Adobe PostScript font support when used with Adobe Type Manager software (sold separately)
- *Paper tray size:* Multipurpose tray holds up to 100 sheets of paper, 50 transparencies, 20 envelopes, or 30 cards
- *Paper handling:* Supports U.S. letter, U.S. legal, A4, Executive, envelopes (#10 and #6), labels, transparencies, index cards, and other specialty paper stocks
- *Connectivity and networking:* RS-422 port supports high-speed serial connection
- *Dimensions (HWD):* 7.8 by 17.2 by 15.9 inches (19.9 by 43.7 by 40.5 cm)



- *Weight:* 11.7 lb. (5.3 kg)
  - *Recommended number of users:* One
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## **Key features**

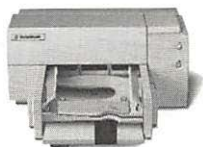
- Features a convenient dual-cartridge ink system for easy, inexpensive color printing without any need to switch ink cartridges.
- Provides excellent resolution for both color and laser-quality black text (600 by 300 dpi and 600 by 600 dpi, respectively).
- Uses pigment-based inks for dark, sharp images that are also fade-resistant and water-resistant.
- Includes bundled software for producing creative projects from greeting cards to T-shirt transfers, a library of images, and a variety of fonts that make it easy to customize your creations.
- Provides a complete four-color printing solution.
- Connects quickly to virtually any Mac OS-based computer.
- Prints up to 4 pages per minute for black and white and 1.5 pages per minute for color.
- Can print on a variety of materials, including envelopes and transparencies.
- Supports enhanced printing features such as print preview, manual two-sided printing, and back-to-front printing.
- Has ColorSync color-matching technology, to ensure the closest-possible match between the colors you see on the screen and the colors on the printed page.

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## **Bundled software**

- Comes with the following applications and resources:
  - Mindscape's PrintMaster Gold: Provides tools to create greeting cards, T-shirt transfers, and more.
  - Nova's Art Explosion Sampler: Includes more than 1,000 clip-art and photographic images.
  - Bitstream TrueType Fonts: Provides 24 high-quality fonts.

# Color StyleWriter 4500



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## At a glance

- The Color StyleWriter 4500 is a high-quality color ink-jet printer that provides photorealistic results and flexible multimedia capabilities.
- It's designed for use by home, education, and small-business users who work with Mac OS-based computers.
- It's an extraordinarily flexible, versatile printer that can expand your options for communicating your ideas.

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## Specifications

- *Resolution:* Up to 600 by 600 dots per inch (dpi) for black and white; up to 600 by 300 dpi for color
- *Printing speed:* Up to 5 pages per minute (black and white); approximately 4 minutes per page for Color PhotoGrade (5- by 7-inch photo); up to 1.7 pages per minute (color)
- *Processor:* Uses the computer's processor
- *Memory:* 62K input buffer
- *Supported languages:* QuickDraw
- *Fonts:* Up to 64 scalable TrueType fonts; Adobe PostScript font support when used with Adobe Type Manager software (sold separately)
- *Paper tray size:* Multipurpose tray holds up to 100 sheets of paper, 50 transparencies, 20 envelopes, 30 cards, or 20 continuous banner pages
- *Paper handling:* Supports U.S. letter, U.S. legal, U.S. banner, A4, A4 banner, Executive, envelopes (#10 and #6), labels, transparencies, index cards, and other specialty paper stocks
- *Connectivity and networking:* RS-422 port supports high-speed serial connection

- *Dimensions (HWD)*: 7.8 by 17.2 by 15.9 inches (19.9 by 43.7 by 40.5 cm)
- *Weight*: 11.7 lb. (5.3 kg)
- *Recommended number of users*: One

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## **Key features**

- Comes with everything required to print photorealistic color images, as well as color and black-and-white documents.
- Includes bundled photo-editing software and applications for a variety of multimedia printing projects.
- Provides outstanding resolution for both color and laser-quality black text (600 by 300 dpi and 600 by 600 dpi, respectively).
- Uses pigment-based inks for dark, sharp images that are also fade-resistant and water-resistant.
- Prints up to 5 pages per minute for black and white, 4 minutes per page for Color PhotoGrade, and 1.7 pages per minute for color.
- Connects to virtually any Mac OS-based computer.
- Can print on a variety of materials, including banners, envelopes, and transparencies.
- Supports enhanced printing features such as print preview, manual two-sided printing, and back-to-front printing.
- Has ColorSync color-matching technology, to match the colors on the screen and the colors on the printed page.

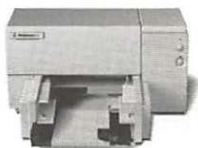
**95★**

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## **Bundled software**

- Comes with the following applications and resources:
  - PictureWorks's PhotoEnhancer Plus: Makes photo editing fun.
  - Mindscape's PrintMaster Gold: Provides tools to create greeting cards, T-shirt transfers, and more.
  - Nova's Art Explosion Sampler: Includes more than 1,000 clip-art and photographic images.
  - KaeTron's Stencil It! and Web It!: Lets you create maps and landscapes, and even design a web page.
  - Bitstream TrueType Fonts: Provides 24 high-quality fonts.

# Color StyleWriter 6500



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## At a glance

- The Color StyleWriter 6500 is a flexible, high-performance color ink-jet printer that provides professional-quality output for users of both Mac OS-based systems and PCs running Windows.
- It's designed for small- to medium-size businesses and education users who are looking for a fast, networkable printer that can give all of their documents and business communications a professional touch.
- It combines ease of use and economical operation with the durability required for shared printer use in a professional setting.

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## Specifications

- *Resolution:* Up to 600 by 600 dots per inch (dpi) for black and white; up to 600 by 300 dpi for color
- *Printing speed:* Up to 8 pages per minute (black and white); up to 4 pages per minute (color)
- *Processor:* Uses the computer's processor
- *Memory:* 62K input buffer
- *Supported languages:* QuickDraw and Windows GDI
- *Fonts:* Up to 64 scalable TrueType fonts for the Mac OS, 42 TrueType fonts for Windows
- *Paper tray size:* Multipurpose tray holds up to 150 sheets of paper, 15 envelopes, or 30 cards
- *Paper handling:* Supports U.S. letter, U.S. legal, A4, Executive, envelopes (#10, #6, Monarch, A2, and DL), labels, transparencies, index cards, and other specialty paper stocks
- *Connectivity and networking:* Single RS-422 port supports high-speed serial connection or LocalTalk; parallel I/O IEEE 1284B support built in; optional adapter lets you connect directly to an EtherTalk network

- *Dimensions (HWD) and weight:* 6.9 by 17.2 by 15.6 inches (17.5 by 43.7 by 39.6 cm); 14.3 lb. (6.4 kg)
  - *Recommended number of users:* Small workgroups
- 

### **Key features**

- Prints professional-looking documents quickly (up to 8 pages per minute for black and white, 4 pages per minute for color).
  - Provides outstanding quality for both color and true black text (600 by 300 dpi and 600 by 600 dpi, respectively).
  - Supports quick connection to both Mac OS–based computers and PCs running Windows 3.1, Windows 95, and MS-DOS.
  - Supports advanced printing features, such as the ability to print two to four mini-pages on a single sheet, include watermarks in the background of your documents, and create paper sizes.
  - Has ColorSync color-matching technology, to match the colors on the screen and the colors on the printed page.
  - Uses pigment-based black ink for dark, sharp output that is also fade-resistant and water-resistant.
  - Provides a complete four-color printing solution.
  - Comes with bundled productivity software.
- 

### **Bundled software**

97★

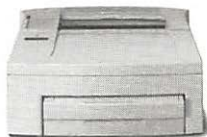
- Comes with the following applications and resources:
    - Mindscape's PrintMaster Gold: Provides tools to create greeting cards, T-shirt transfers, and more.
    - Now Up • to • Date & Contact: Lets you create your own to-do lists and track important contact information.
    - Nolo Press Personal RecordKeeper: A complete and easy-to-use home record-keeping system.
    - Kaeatron's Stencil It! and Web It!: Lets you create maps and landscapes, and even design a web page.
    - Nova's Art Explosion Sampler: Includes more than 1,000 clip-art and photographic images.
    - Bitstream TrueType Fonts: Provides 24 high-quality fonts.
- 

### **Accessories**

- StyleWriter EtherTalk Adapter II—Connects your printer directly to an EtherTalk network.



# LaserWriter 4/600 PS



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## At a glance

- The Apple LaserWriter 4/600 PS is an affordable PostScript laser printer that offers a number of advanced print capabilities.
- The monochrome printer is ideal for individual home, education, and small-business users who require professional print quality and PostScript capability.

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## Specifications

- *Resolution:* 600 dots per inch
- *Printing speed:* 4 pages per minute
- *Processor:* 16-megahertz AMD 29200 RISC
- *Memory:* 2MB
- *Supported languages:* Adobe PostScript Level 2
- *Fonts:* 64 scalable TrueType and 35 PostScript fonts
- *Paper tray size:* 100-sheet universal cassette
- *Paper handling:* Manual feed supports straight-through paper path
- *Connectivity and networking:* LocalTalk port supports AppleTalk protocol; LaserWriter Bridge 2.0 software allows printer sharing on Ethernet and Token Ring networks
- *Dimensions (HWD):* 6.3 by 15.2 by 14.9 inches (16.1 by 38.5 by 37.9 cm)
- *Weight:* 15.4 lb. (7.0 kg)
- *Recommended number of users:* One to three
- *Other features:*
  - Energy Star compliant



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## **Key features**

- Prints at 600-dot-per-inch resolution, providing exceptional print quality at your desk.
- Comes with a RISC processor so you can print at a quick 4 pages per minute.
- Can connect to Ethernet networks through Macintosh software (included).
- Features a unique energy-saving design with no On/Off switch; the printer simply “wakes up” when a document is sent to it, operating the rest of the time in an energy-saving standby mode.
- Qualifies for the EPA Energy Star rating (U.S.A.) as an energy-efficient product.

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## **Accessories**

- LaserWriter 100-Sheet Universal Cassette
- LaserWriter 4MB Memory Card

# LaserWriter 12/640 PS



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## At a glance

- The Apple LaserWriter 12/640 PS is a high-quality monochrome laser printer that offers extremely flexible and versatile paper-handling capabilities—including optional duplex (double-sided) printing (requires a minimum of 12 megabytes of RAM) and the ability to print to a wide variety of paper stocks and other media.
- It's ideal for business (especially intranetworked workgroups), education, and government users who require professional print quality and PostScript capability and who desire flexible paper-handling capabilities and excellent compatibility.

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## Specifications

- *Resolution:* 600 dots per inch with FinePrint; PhotoGrade (requires a minimum of 12MB of RAM)
- *Printing speed:* 12 pages per minute
- *Processor:* 30-megahertz AMD 29240 RISC
- *Memory:* 8MB
- *Supported languages:* Adobe PostScript Level 2, PCL 5; auto-emulation switching between PostScript and PCL 5
- *Fonts:* 64 scalable TrueType and 35 PostScript fonts
- *Paper tray size:* 250-sheet universal cassette and 80-sheet multi-purpose tray (can hold envelopes); optional 500-sheet cassette and feeder and envelope cassette
- *Connectivity and networking:* Ethernet port supports AppleTalk, TCP/IP, and Novell NetWare IPX protocols; LocalTalk port supports AppleTalk protocol; bidirectional parallel port
- *Dimensions (HWD):* 9.25 by 15.94 by 16.65 inches (23.5 by 40.5 by 42.3 cm)

- *Weight:* 26.5 lb. (12.0 kg)
- *Recommended number of users:* Three to twenty
- *Other features:*
  - Extensive paper-handling options
  - Includes Adobe Type Manager and Adobe Acrobat Reader (currently available only in the United States) software for Mac OS— and Windows software—based systems
  - Energy Star compliant

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## **Key features**

- Provides 600-dot-per-inch resolution, at a rapid 12 pages per minute, for exceptional print quality—fast.
- Prints on a wide variety of paper and other media, from A4 paper to postcard stock (paper weights of 16 to 50 pounds), as well as on transparencies, envelopes, and more.
- Supports several easy-to-install printer options, including duplex printing for professional-quality double-sided output without the use of a copier, as well as a 500-sheet cassette and feeder, an envelope cassette, and a face-up output tray.
- Provides flexible networking; supports many platforms, including the Mac OS, Windows 3.1, Windows 95, Windows NT, and UNIX.
- Comes with both Adobe PostScript Level 2 and PCL 5 with autoemulation switching, and can be easily connected to all of the most popular network types.
- Qualifies for the EPA Energy Star rating (U.S.A.) as an energy-efficient product.

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## **Accessories and Supplies**

- LaserWriter 12/640 PS Duplex Printing Unit
- LaserWriter 12/640 PS 500-Sheet Cassette and Feeder
- LaserWriter 12/640 PS Envelope Cassette
- LaserWriter 12/640 PS Face-up Output Tray
- LaserWriter 12/640 PS Toner Cartridge

# LaserWriter 12/640 PS Plus



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## At a glance

- The Apple LaserWriter 12/640 PS Plus is a high-quality monochrome laser printer that provides outstanding results—and incorporates impressive paper-handling capabilities, including duplex (double-sided) printing, and a 500-sheet cassette and feeder for large workgroups or bulk printing needs.
- It's ideal for workgroups of Mac OS and Windows users who require a convenient, cost-effective, single-box laser printing solution to meet their demanding paper-handling needs.

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## Specifications

- *Resolution:* 600 dots per inch with FinePrint; PhotoGrade
- *Printing speed:* 12 pages per minute; 8 pages per minute with duplex printing
- *Processor:* 30-megahertz AMD 29240 RISC
- *Memory:* 12MB
- *Supported languages:* Adobe PostScript Level 2, PCL 5; auto-emulation switching between PostScript and PCL 5
- *Fonts:* 64 scalable TrueType and 35 PostScript fonts
- *Paper tray size:* 250-sheet universal cassette and 80-sheet multi-purpose tray (can hold envelopes); 500-sheet cassette and feeder; duplex printing unit
- *Connectivity and networking:* Ethernet port supports AppleTalk, TCP/IP, and Novell NetWare IPX protocols; LocalTalk port supports AppleTalk protocol; bidirectional parallel port
- *Dimensions (HWD):* 9.25 by 15.94 by 16.65 inches (23.5 by 40.5 by 42.3 cm)
- *Weight:* 26.5 lb. (12.0 kg)

- *Recommended number of users:* Three to twenty
- *Other features:*
  - Extensive paper-handling options
  - Includes Adobe Type Manager and Adobe Acrobat Reader (currently available only in the United States) software for Mac OS— and Windows software—based systems
  - Energy Star compliant

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## **Key features**

- Provides 600-dot-per-inch resolution, at a rapid 12 pages per minute, for exceptional print quality—fast.
- Includes a duplex printing unit for professional-quality double-sided output and integrated paper trays (250-sheet universal cassette, 80-sheet multipurpose tray, and large-capacity, 500-sheet feeder and cassette) that offer a total capacity of 830 sheets—along with the printer memory (12MB of RAM) required to accommodate these high-performance paper-handling capabilities.
- Prints on a wide variety of paper and other media, from A4 paper to postcard stock (paper weights of 16 to 50 pounds), as well as on transparencies, envelopes, and more.
- Supports additional, easy-to-install printer options, including an envelope cassette and a face-up output tray.
- Provides flexible networking; supports many platforms, including the Mac OS, Windows 3.1, Windows 95, Windows NT, and UNIX.
- Comes with both Adobe PostScript Level 2 and PCL 5 with autoemulation switching, and can be easily connected to all of the most popular network types.
- Qualifies for the EPA Energy Star rating (U.S.A.) as an energy-efficient product.

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## **Accessories and Supplies**

- LaserWriter 12/640 PS Envelope Cassette
- LaserWriter 12/640 PS Face-up Output Tray
- LaserWriter 12/640 PS Toner Cartridge

# LaserWriter 8500



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## At a glance

- The LaserWriter 8500 is Apple's high-performance, cross-platform workgroup printer for Mac OS and Windows users, featuring flexible paper handling and built-in connectivity options and support for most popular networks.
- It's the fastest LaserWriter printer ever, with a combination of fast RISC processing and a printing speed of 20 pages per minute.
- It's one of the first printers based on Adobe PostScript 3, and it's the first LaserWriter to offer full-bleed ledger and A3 paper-size support.
- It's ideal for customers who want to print high volumes or complex monochrome documents quickly and with superior quality—without having to focus on the printer instead of on their work.

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## Specifications

- *Resolution:* 600 dots per inch with enhanced PhotoGrade (up to 150 lines per inch), and FinePrint
- *Printing speed:* 20 pages per minute
- *Processor:* 60/30-megahertz AMD 29040 RISC
- *Memory:* 16MB, supports up to 48MB
- *Supported languages:* Adobe PostScript 3
- *Fonts:* 136 PostScript 3 fonts (TrueType and Type 1)
- *Paper handling:* 500-sheet universal (letter/A4) cassette and 150-sheet multipurpose tray (can hold envelopes); duplex option allows for double-sided printing; additional paper trays hold up to 1,650 sheets. For available options, see "Accessories and Supplies."
- *Connectivity and networking:* Ethernet port supports EtherTalk, TCP/IP, and Novell NetWare IPX protocols; LocalTalk port supports AppleTalk protocol; IEEE 1284 bidirectional parallel port; external SCSI port for hard disk storage



- *Dimensions (HWD)*: 16.2 by 23.2 by 17.9 inches (41.1 by 58.9 by 45.5 cm)
- *Weight*: 70.4 lb. (32.0 kg), including toner cartridge
- *Recommended number of users*: Large workgroups

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## Key features

- Features 600-dot-per-inch resolution with improved PhotoGrade and FinePrint for sharp text and photorealistic images, and prints at a rapid 20 pages per minute.
- Is one of the first printers based on the new version of the Adobe PostScript page-description language—PostScript 3—and is the first LaserWriter printer to support full-bleed ledger/A3 paper sizes (supports paper sizes up to 13 by 20 inches).
- Handles a wide variety of media, including plain paper, transparencies, labels, envelopes, and postcards; supports up to 1,650 sheets of paper with additional paper feeders.
- Provides flexible connectivity, including compatibility with systems running the Mac OS, Windows 3.1, Windows 95, Windows NT, and UNIX, and built-in support for the AppleTalk, EtherTalk, TCP/IP, and Novell NetWare IPX protocols.
- Supports advanced printing capabilities for Internet/intranet environments, including IP printing to allow printing from remote locations through the LaserWriter 8.5 printing software.
- Makes setup, use, and administration extraordinarily simple, so you can concentrate on what you want to print and how you want to print it—not on the mechanics of dealing with the printer itself.
- Lets you add external SCSI hard disk drives for storing fonts.
- Qualifies for the EPA Energy Star rating (U.S.A.).

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## Accessories and Supplies

- LaserWriter 8500 Upgrade Kit: Includes 500-sheet Ledger/A3 Cassette and Feeder, Duplex Printing Unit, and 8MB of RAM
- LaserWriter 8500 Duplex Printing Unit
- LaserWriter 8500 500-Sheet Ledger/A3 Cassette and Feeder (the printer can accommodate up to two)
- LaserWriter 8500 500-sheet Letter/A4 Cassette and Feeder
- LaserWriter 8500 Envelope Cassette
- High-Capacity Toner Cartridge for LaserWriter 8500 Series

# Color LaserWriter 12/660 PS



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## At a glance

- The Apple Color LaserWriter 12/660 PS is a high-performance, multiplatform PostScript laser printer that provides outstanding results for both color and black-and-white printing.
- It's ideal for anyone who requires easy-to-use, convenient, superior-quality color printing capabilities at an affordable price.

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## Specifications

- *Resolution:* 600 dots per inch with Color PhotoGrade
- *Printing speed:* 12 pages per minute for black and white; 3 pages per minute for color; 1 page per minute for color transparencies
- *Processor:* 30-megahertz AMD 29030 RISC
- *Memory:* 16MB
- *Supported languages:* Adobe PostScript Level 2
- *Fonts:* 64 scalable TrueType and 39 PostScript fonts
- *Paper tray size:* Standard 250-sheet feeder and 100-sheet multipurpose tray; optional universal 250-sheet feeder
- *Connectivity and networking:* Ethernet port supports AppleTalk, TCP/IP, and Novell NetWare IPX protocols; LocalTalk port supports AppleTalk protocol; IEEE 1284 bidirectional parallel port; internal and external SCSI ports for hard disk storage
- *Dimensions (HWD):* 18.0 by 21.0 by 23.0 inches (45.7 by 53.3 by 58.4 cm)
- *Weight:* 110 lb. (49.5 kg)
- *Recommended number of users:* Can accommodate workgroups of 10 to 20

- *Other features:*
    - Windows 95 printer drivers included
    - Energy Star compliant
    - All ports active
    - ColorSync 2.0 support
    - Color PhotoGrade support
- 

## **Key features**

- Provides high-quality color printing at an affordable price.
- Can be connected to Mac OS and Windows software-based computers over Ethernet networks supporting a variety of protocols, which makes it an ideal solution for a multivendor environment.
- Prints at 600-dot-per-inch resolution, providing exceptional print quality at your desk.
- Has ColorSync color-matching technology, to ensure the closest-possible match between the colors you see on the screen and the colors on the printed page.
- Takes advantage of Color PhotoGrade technology to provide excellent color image quality.
- Lets you add hard disk drives via SCSI ports to store a variety of fonts.
- Qualifies for the EPA Energy Star rating (U.S.A.) as an energy-efficient product.

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## **Accessories**

- Color LaserWriter 250-Sheet Feeder
- Color LaserWriter Universal Cassette
- Color LaserWriter Internal Hard Disk Drive
- Color LaserWriter Photoconductor Replacement Kit

# The Apple Display and Image-Capture Advantage

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## Displays

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### **Great computers deserve great displays**

The original Macintosh set the standard for display quality with its innovative screen—it was the first computer to display text and graphics just as they'd appear when printed. And as the needs of Macintosh users have become more sophisticated, so have Macintosh displays.

Apple offers a variety of displays for both Macintosh computers and PCs running Windows—in a range of sizes. All of our displays are known for their unprecedented brightness, clarity, and fidelity. Their flat screens have sharp focus and virtually no distortion, even at the edges. And our displays meet even the strict Swedish specifications for magnetic-field emissions.

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### **Easy to connect**

Apple displays are easy to install and configure. To connect one to your Macintosh, all you have to do is take a single cable and plug one end into the back of your display and the other into the back of your Macintosh. When you turn on your Macintosh, it will automatically adjust to the size and type of Apple display you're using.

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### **Energy efficient**

All Apple displays meet the requirements for the U.S. Environmental Protection Agency's Energy Star rating. They won't waste energy—and they *will* save you money on your electric bill.

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### **Multiple-scan display technology**

Apple has incorporated multiple-scan technology into all of its current displays. This technology enables the displays to provide

multiple resolution modes, for flexible viewing. You can switch among viewing modes to optimize your viewing area and resolution for presentations, publishing, or two-page layouts.

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### **Compatibility with PCs running Windows**

All Apple displays can also be used with Windows software-based systems—so everyone in your office or school can take advantage of their excellent quality.

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## *Image Capture*

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### **Apple scanners**

Combining high quality with extraordinary ease of use, the Apple Color OneScanner 600/27 and 1200/30 come with OneScanner Dispatcher software, a powerful application that not only makes scanning a quick and easy process, but also lets you edit, print, fax, copy, OCR, archive, and retrieve images with Drag and Drop simplicity. And the Color OneScanner products include a special version of Xerox TextBridge OCR software (version 3.0h), which allows for automatic conversion of printed text into HTML. It also includes a Photoshop acquire module, which lets you scan directly into Adobe Photoshop and compatible software.

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### **Apple digital cameras**

The Apple QuickTake 200 digital camera is a lightweight, convenient device that lets you capture high-quality digital images for your computer no matter where you are. It is exceptionally easy to use, yet offers impressive resolution and advanced photo-manipulation capabilities. The QuickTake 200 also offers preview/delete, removable storage, and videoconferencing capabilities.

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### **QuickTime image capture and the Internet**

Apple imaging products—as well as our software support for media-rich offerings through the QuickTime Media Layer—are also helping to fuel the move to richer, more visual Internet offerings. For example, the QuickTake 200 digital camera provides an ideal means of enhancing web offerings with photographs.



# Apple Multiple Scan 15AV Display



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## At a glance

- This is a high-quality, yet affordable, half-page color display that provides a larger viewing area than many other 15-inch monitors, with a high-quality screen and front-facing CD-quality speakers.
- It features a sleek design and offers a host of advanced features to complement the capabilities of your Macintosh Performa, Power Macintosh, or Macintosh PowerBook system.

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## Specifications

- *Screen size:* 15 inches (diagonal)
- *Viewable image size:* 13.75 inches (diagonal)
- *Display format/refresh rate:* 640 by 480 pixels at 67 hertz, 800 by 600 pixels at 60 and 72 hertz, 832 by 624 pixels at 75 hertz, and 1,024 by 768 pixels at 60, 72, and 75 hertz (Mac OS); 640 by 480 pixels at 60 hertz (VGA), 800 by 600 pixels at 72 hertz (SVGA), and 1,024 by 768 pixels at 60, 72, and 75 hertz (SVGA) [requires adapter for Windows]
- *Dot/grille pitch:* 0.28-mm dot pitch
- *Audio response:* 50 Hz–20 KHz, 2 watts, SPL=82 DB @ 1 KHz, 1 meter
- *Picture tube:* Flat, square, shadow mask; antistatic, antiglare
- *Dimensions (HWD) and weight:* 16.1 by 17.3 by 16.0 inches (40.9 by 44.0 by 40.7 cm); 30.0 lb. (13.5 kg)

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## Key features

- Lets you change viewing modes without restarting your system.
- Includes integrated stereo speakers and a headphone jack.
- Features a flat, square screen that minimizes image distortion.
- Features a tilt-and-swivel base for adjustable viewing.
- Qualifies for the EPA Energy Star rating (U.S.A.).



# Apple Multiple Scan 1705 Display



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## At a glance

- The Multiple Scan 1705 is Apple's most affordable full-page color display.
- It's a good match for midrange systems, and highly appropriate for people who have been using a 15-inch display and want to move up to a larger screen affordably.

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## Specifications

- *Screen size:* 17 inches (diagonal)
- *Viewable image size:* 15.8 inches (diagonal)
- *Display format/refresh rate:* 640 by 480 pixels at 67 hertz, 800 by 600 pixels at 60 and 72 hertz, 832 by 624 pixels at 75 hertz, and 1,024 by 768 pixels at 60, 72, and 75 hertz (Mac OS); 640 by 480 pixels at 60 hertz (VGA), 800 by 600 pixels at 72 hertz (SVGA), and 1,024 by 768 pixels at 60, 72, and 75 hertz (SVGA) [requires adapter for Windows]
- *Dot/grille pitch:* 0.28-mm dot pitch
- *Picture tube:* Flat, square, shadow mask
- *Dimensions (HWD):* 17.2 by 16.6 by 18.8 inches (43.7 by 41.9 by 47.8 cm)
- *Weight:* 45.2 lb. (20.3 kg)

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## Key features

- Features a high-quality shadow mask screen for clear, crisp, sharp images.
- Lets you change viewing modes without restarting your system.
- Features a tilt-and-swivel base for adjustable viewing.
- Qualifies for the EPA Energy Star rating (U.S.A.).

# AppleVision 750 Display



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## At a glance

- The AppleVision 750, which replaces the AppleVision 1710, is a superior-quality color display that's perfect for business tasks such as desktop publishing, working with spreadsheets, and creating presentations.
- It's a good match for powerful desktop business systems, such as the Power Macintosh 8600 and 9600 series models.

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## Specifications

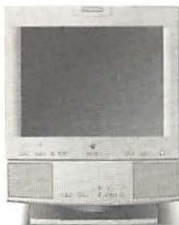
- *Screen size:* 17 inches (diagonal)
- *Viewable image size:* 16.1 inches (diagonal)
- *Display format/refresh rate:* 640 by 480 pixels at 67 hertz, and 832 by 624 pixels, 1,024 by 768 pixels, 1,152 by 870 pixels, and 1,280 by 960 pixels at 75 hertz (Mac OS); 640 by 480 pixels, 800 by 600 pixels, 1,024 by 768 pixels, 1,280 by 960 pixels, and 1,280 by 1,024 pixels at 60 hertz (Windows)
- *Dot/grille pitch:* 0.25-mm aperture grille pitch
- *Picture tube:* Sony Trinitron
- *Dimensions (HWD) and weight:* 16.8 by 16.2 by 17.6 inches (42.7 by 41.1 by 45.2 cm); 49.0 lb. (22.0 kg)

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## Key features

- Features a Sony Trinitron picture tube with improved focus for outstandingly crisp, sharp images.
- Supports fast refresh rates for excellent image quality.
- Qualifies for the EPA Energy Star rating (U.S.A.), and TCO 92 standards.
- Incorporates enhanced Apple DigitalColor technology for unprecedented color stability and accuracy.
- Allows control over all screen functions through superior software integration.

# AppleVision 750AV Display



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## At a glance

- This full-page color display, which replaces the AppleVision 1710AV, is an exceptional tool for multimedia use.
- It combines multiple-scan technology with built-in stereo speakers and an integrated microphone.
- It's an ideal solution for users who require excellent audio and visual performance from a display.

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## Specifications

- *Screen size:* 17 inches (diagonal)
- *Viewable image size:* 16.1 inches (diagonal)
- *Display format/refresh rate:* 640 by 480 pixels at 67 hertz, and 832 by 624 pixels, 1,024 by 768 pixels, 1,152 by 870 pixels, and 1,280 by 1,024 pixels at 75 hertz (Mac OS); 640 by 480 pixels, 1,024 by 768 pixels, and 1,280 by 1,024 pixels at 60 hertz, and 800 by 600 pixels at 75 hertz (Windows)
- *Dot/grille pitch:* 0.25-mm aperture grille pitch
- *Picture tube:* Sony Trinitron
- *Dimensions (HWD) and weight:* 19.7 by 15.8 by 17.6 inches (50.7 by 40.5 by 45.2 cm); 60.0 lb. (27.0 kg)

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## Key features

- Features a Sony Trinitron picture tube with improved focus for outstandingly crisp, sharp images.
- Provides integrated CD-quality stereo speakers and a voice recognition-capable microphone.
- Supports fast refresh rates for excellent image quality.
- Qualifies for the EPA Energy Star rating (U.S.A.), and TCO 92 standards.
- Incorporates enhanced Apple DigitalColor technology for unprecedented color stability and accuracy.

# AppleVision 850 Display



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## At a glance

- The AppleVision 850 is a superior-quality color display that provides excellent image quality in a large-screen display.
- It's a good match for powerful, flexible systems such as the Power Macintosh 8600 and 9600 series models.

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## Specifications

- *Screen size:* 20 inches (diagonal)
- *Viewable image size:* 19.0 inches (diagonal)
- *Display format/refresh rate:* 640 by 480 pixels, 800 by 600 pixels, and 1,024 by 768 pixels at up to 85 hertz; and 832 by 624 pixels, 1,152 by 870 pixels, 1,280 by 1,024 pixels, and 1,600 by 1,200 pixels at 75 hertz (Mac OS); 640 by 480 pixels, 800 by 600 pixels, and 1,024 by 768 pixels at 85 hertz; and 1,280 by 1,024 pixels and 1,600 by 1,200 pixels at 75 hertz (Windows)
- *Dot/grille pitch:* 0.25-mm aperture grille pitch
- *Picture tube:* Sony Trinitron
- *Dimensions (HWD) and weight:* 18.7 by 19.1 by 20.2 inches (47.5 by 48.5 by 51.3 cm); 67.4 lb. (30.6 kg)

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## Key features

- Features a Sony Trinitron picture tube with improved focus for outstandingly clear, crisp, sharp images.
- Incorporates enhanced Apple DigitalColor technology for unprecedented color stability and accuracy.
- Allows control over all screen functions through superior software integration.
- Qualifies for the EPA Energy Star rating (U.S.A.), and TCO 92 standards.

# AppleVision 850AV Display



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## At a glance

- The AppleVision 850AV is a superior-quality multimedia display that provides excellent audio and visual performance in a large-screen display.
- It's a good match for powerful, flexible systems such as the Power Macintosh 8600 and 9600 series models.

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## Specifications

- *Screen size:* 20 inches (diagonal)
- *Viewable image size:* 19.0 inches (diagonal)
- *Display format/refresh rate:* 640 by 480 pixels, 800 by 600 pixels, and 1,024 by 768 pixels at up to 85 hertz; and 832 by 624 pixels, 1,152 by 870 pixels, 1,280 by 1,024 pixels, and 1,600 by 1,200 pixels at 75 hertz (Mac OS); 640 by 480 pixels, 800 by 600 pixels, and 1,024 by 768 pixels at 85 hertz; and 1,280 by 1,024 pixels and 1,600 by 1,200 pixels at 75 hertz (Windows)
- *Dot/grille pitch:* 0.25-mm aperture grille pitch
- *Picture tube:* Sony Trinitron
- *Dimensions (HWD) and weight:* 21.8 by 19.1 by 23.4 inches (55.4 by 48.5 by 59.4 cm); 92.0 lb. (41.9 kg)

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## Key features

- Features a Sony Trinitron picture tube with improved focus for outstandingly clear, crisp, sharp images.
- Provides integrated CD-quality stereo speakers and a voice recognition-capable microphone.
- Incorporates enhanced Apple DigitalColor technology for unprecedented color stability and accuracy.
- Qualifies for the EPA Energy Star rating (U.S.A.), and TCO 92 standards.

# Apple Color OneScanner 600/27



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## At a glance

- The Apple Color OneScanner 600/27 is a highly affordable, yet capable scanner that's ideal for home or school use.
- It comes with OneScanner Dispatcher software version 2.0—a powerful, easy-to-use application that works as a central guide to the scanner's many functions, including scanning, optical character recognition (OCR), editing, printing, faxing, copying, archiving, and retrieving images.
- It also includes software that provides quick, easy conversion of OCR documents into Hypertext Markup Language (HTML) format for streamlined web authoring.

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## Specifications

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- *Color capabilities:* Recognizes up to 134 million colors
- *Scanner type:* Single-pass, 27-bit scanning
- *Scanning resolution:* 300 by 600 dots per inch; 2,400 by 2,400 dots per inch interpolated
- *Maximum scan area:* 8.5 by 11.5 inches (A4; 21.6 by 29.2 cm)
- *Scanning engine speed:* Full-page scan, less than 20 seconds; preview scan, less than 6 seconds
- *Interface:* SCSI II
- *File formats:* Supports PICT, TIFF, GIF, JPEG, EPS, BMP, and Photoshop 2.5; compatible with most popular word processing, presentation, image editing, and page-layout software for the Mac OS
- *System requirements:* Mac OS system software version 7.5 or later; at least 8MB of RAM (12MB required to use OneScanner Dispatcher and TextBridge OCR software simultaneously)



- *Dimensions (HWD)*: 3.1 by 11.3 by 16.3 inches (7.9 by 28.7 by 41.4 cm)
- *Weight*: 13.2 lb. (6.0 kg)
- *Other features*:
  - Cool-scanning Xenon bulb
  - Includes Xerox TextBridge OCR software version 3.0h, Photoshop plug-in acquire scan module, Kai's Power Tools 3.0 SE, and KPT Convolver 1.0 SE
  - Supports ColorSync 2.01

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### **Key features**

- Includes OneScanner Dispatcher 2.0 software, a central guide to a multitude of scanning-related functions that provides seamless integration with word processing, presentation, page-layout, and graphics applications.
- Provides high-quality scanning and excellent image-manipulation capabilities at a very affordable price.
- Comes with a special version of industry-acclaimed OCR software—version 3.0h of Xerox TextBridge, exclusive to Apple's OneScanner product line—which not only saves you time by eliminating the need to reenter text, but also offers easy OCR-to-HTML conversion of text documents, for streamlined web authoring.
- Features an attractive, compact design that fits easily into even the smallest work space.

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### **Accessories**

- 20-sheet automatic document feeder

# Apple Color OneScanner 1200/30



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## At a glance

- The Apple Color OneScanner 1200/30 is a high-quality, multi-function scanner that seamlessly integrates a variety of document processing tasks to enhance users' productivity, making it perfect for a variety of publishing, business, and education uses.

- It comes with OneScanner Dispatcher software version 2.0. This powerful, easy-to-use application helps users take advantage of the scanner's many functions—including scanning, OCR, editing, printing, faxing, copying, archiving, and retrieving images—to easily manage their documents and images.

- It also includes software that provides quick, easy conversion of OCR documents into Hypertext Markup Language (HTML) format for streamlined web authoring.

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## Specifications

- *Color capabilities:* Recognizes up to 1 billion colors
- *Scanner type:* Single-pass, 30-bit scanning
- *Scanning resolution:* 600 by 1,200 dots per inch; 4,800 by 4,800 dots per inch interpolated
- *Maximum scan area:* 8.5 by 11.5 inches (A4; 21.6 by 29.2 cm)
- *Scanning engine speed:* Full-page scan, less than 20 seconds; preview scan, less than 6 seconds
- *Interface:* SCSI II
- *File formats:* Supports PICT, TIFF, GIF, JPEG, EPS, and BMP; compatible with most popular word processing, presentation, image editing, page-layout, and web-authoring software for the Mac OS

- *System requirements:* Mac OS system software version 7.5 or later; at least 8MB of RAM (12MB required to use OneScanner Dispatcher and TextBridge software simultaneously)
- *Dimensions (HWD):* 3.1 by 11.3 by 16.3 inches (7.9 by 28.7 by 41.4 cm)
- *Weight:* 13.2 lb. (6.0 kg)
- *Other features:*
  - Cool-scanning Xenon bulb
  - Includes Xerox TextBridge OCR software version 3.0h, Photoshop plug-in acquire scan module, Kai's Power Tools 3.0 SE, and KPT Convolver 1.0 SE
  - Supports ColorSync 2.01

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### **Key features**

- Includes OneScanner Dispatcher 2.0 software, which handles a multitude of scanning-related functions and provides seamless integration with word processing, presentation, graphics, page-layout, and web-authoring applications.
- Comes with a special version of industry-acclaimed OCR software—version 3.0h of Xerox TextBridge, exclusive to Apple's OneScanner product line—which not only saves you time by eliminating the need to reenter text, but also offers easy OCR-to-HTML conversion of text documents, for streamlined web authoring.
- Offers true negative-to-positive conversions through an optional transparent media adapter.
- Comes with powerful image-enhancement plug-in filters.
- Features an attractive, compact design that fits easily into even the smallest work space.

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### **Accessories**

- 20-sheet automatic document feeder
- Transparent media adapter

# QuickTake 200



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## At a glance

- The QuickTake 200 is a compact and lightweight digital camera that allows you to capture 24-bit color digital images quickly and easily.
- It includes a convenient LCD viewing panel that takes the guesswork out of getting the shot, and lets you review captured images later to decide whether you want to keep them.
- It comes with software that allows you to download images directly into a personal computer, and then manipulate and enhance them in a wide variety of ways.
- When it comes to sharing your images, the QuickTake 200 provides flexible options: You can view them on the computer screen, incorporate them into printed documents, add them to an Internet web site, or even view them on television (the camera includes a video cable for direct connection to any standard NTSC television).

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## Specifications

- *Image resolution:* 640 by 480 pixels
- *Color resolution:* 24-bit color
- *Storage:* 2MB (SSFDC) removable storage card stores up to 20 high-quality images or up to 30 standard-quality images
- *Shutter speed:* 1/4 to 1/5000 second; 10-second self-timer
- *Aperture range:* f2.2 to f8.0, user selectable
- *Focus range:* Focus-free lens (38mm equivalent) offers three focal ranges: 3.5 to 5 inches (close-up); 17 to 35 inches (portrait); ~3 feet to infinity (standard)
- *LCD viewing panel:* 1.8-inch panel on back side allows live previewing at 30 frames per second; frame-by-frame playback mode (3-, 5-, or 10-second intervals); review of up to nine images

- *Accessory:*

- Clip-on Optical Viewfinder included

- *Power:* Runs on four AA lithium batteries (included); power-saving mode turns off the LCD to extend battery life; includes connector for optional AC adapter

- *File formats:* PICT, TIFF, JPEG, EXIF

- *Image transfer:* Built-in serial interface, with appropriate serial cable for connection to Mac OS software-based computers

- *Software:* QuickTake Camera Access software, Photoshop Acquire Compatible Plug-in

- *Bundled software:*

- Adobe PhotoDeluxe 1.0

- Adobe PageMill 2.0

- PictureWorks NetCard 1.0

- *Dimensions (HWD):* 3.0 by 5.1 by 1.9 inches (76 by 130 by 48 mm)

- *Weight:* 8.5 oz. (241 g)

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## Key features

- Makes it simple to select the precise images you want to capture, through its integrated LCD or the viewfinder attachment.

- Lets you quickly and easily transfer your digital images to your personal computer via serial connection.

- Includes image-enhancement software, so you can create just the results you envision.

- Lets you place the finished results back into the camera to take them along with you in the most convenient way possible.

- Comes with a video cable that enables direct connection to a standard television (NTSC, where available) for an easy, effective means of sharing your images with others.

- Includes a 2MB removable storage card that can be used in computers with PC Card slots with an optional adapter.

- Is ideal for capturing images that can be used to enhance an Internet web site.

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## Accessories

- QuickTake AC Adapter

- QuickTake 4MB Removable Storage Card





# Newton Mobile Products

# MessagePad 130 with Newton 2.0



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## At a glance

- The MessagePad 130 with the award-winning Newton 2.0 operating system is the first Newton device for mobile professionals that offers backlighting for occasional use and a nonglare screen, for viewing and entering information easily and efficiently no matter what the ambient light.
- It allows you to organize your work and personal life; integrate information with your Windows software— or Mac OS—based personal computer; and communicate using faxes, wireless paging, and e-mail.
- The added 512K of system memory gives better performance with communications solutions such as TCP/IP and wireless LANs, as well as providing multitasking capabilities.
- When you write on the nonglare screen with a MessagePad stylus, the MessagePad 130 with Newton 2.0 converts your printed or cursive handwritten notes into typed text, or, if you like, leaves them in “electronic ink.” It also keeps track of your calendar, includes a calls log, stores names and addresses in your Names file, and organizes your to-do list. If you prefer, an on-screen keyboard lets you “type” your notes, or you can use the optional external Newton Keyboard.

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## Specifications

- *Processor:* ARM 610 RISC
- *Speed:* 20 megahertz
- *Memory:* 2.5MB of RAM, 8MB of ROM; 1,361K of nonvolatile user RAM
- *Storage:* Expandable with the Newton 2MB Flash Storage Card or 4MB Flash Storage Card
- *Expansion:* Slot for one Type II PC Card with 325 mA capacity

- *Display:* 3.8- by 2.8-inch transreflective LCD display with EL backlight; nonglare writing surface
- *Battery:* Four AA alkaline batteries (included); optional MessagePad Rechargeable Battery Pack (nickel-cadmium), MessagePad Battery Booster Pack (requires eight AA alkaline batteries), MessagePad Charging Station
- *Communications:* Built-in LocalTalk port; point-to-point infrared data exchange (IrDA) and modem enablers
- *Dimensions (HWD):* 1.2 by 4.0 by 8.0 inches (3.0 by 10.2 by 20.3 cm)
- *Weight:* 1.0 lb. (0.45 kg)
- *Other features:*
  - MessagePad Telescoping Pen
  - Newton 2.0 operating system
  - Includes an assortment of information and productivity tools
  - Comes with Pocket Quicken 1.2 (U.S. only)
  - Includes Newton Backup Utility and serial cables for connection to Windows software— or Mac OS—based computers

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## Key features

- Offers user-controllable backlighting for use under any lighting conditions.
- Comes with an additional 512K of system memory, offering better performance with wired and wireless communications.
- Makes it easy to back up and restore personal data to Windows— or Mac OS—based computers, as well as to install software and electronic “books” or documents on the MessagePad 130 with Newton 2.0 via the included Newton Backup Utility and serial cables.
- Includes communications capabilities that allow you to send and receive faxes; receive messages; “beam” information to other Newton devices through IR technology; connect to your personal computer and networks to access files or network services; and connect directly to a wide variety of printers (requires optional modem and software).
- Supports popular personal computer applications—including Quicken (for the Mac OS and Windows) and Now Up•to•Date & Contact (for the Mac OS and Windows)—through direct synchronization.

# MessagePad 2000 with Newton 2.1



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## At a glance

- The MessagePad 2000 with the Newton 2.1 operating system is a tiny, lightweight (less than 1.5 pounds), handheld computer that gives you anywhere, anytime access to your core business applications.
- Using the MessagePad 2000 with a PC Card-based modem, you can send and receive faxes and e-mail—and connect to the Internet or an organizational intranet—from virtually anywhere.
- This state-of-the-art system features advanced battery technology that can deliver up to 6 weeks of battery life; a new processor that allows it to run up to 10 times faster than its predecessors; and a crisp, clear backlit screen that displays 16 levels of gray at 100 dots per inch.

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## Specifications

- *Processor:* StrongARM 110 RISC
- *Speed:* 161.9 megahertz
- *Memory:* 5MB of RAM (1MB of DRAM, 4MB of Flash RAM); 8MB of ROM
- *Storage:* Expandable with the Newton 2MB Flash Storage Card or 4MB Flash Storage Card
- *Expansion:* Two Type II PC Card slots
- *Ports:* AC power port, Newton InterConnect port for serial LocalTalk and autodocking
- *Display:* 4.9- by 3.3-inch low-power transfective LCD
- *Sound:* Built-in speaker and microphone
- *Battery:* Four AA alkaline batteries (included); built-in fast charger for optional Newton Rechargeable Battery Pack or optional Newton 9W Power Adapter

- *Communications:* Point-to-point IrDA; e-mail, Internet/intranet, and other online services capabilities via optional wired or wireless modem card and included software
- *Dimensions (HWD):* 1.1 by 4.7 by 8.3 inches (2.75 by 11.9 by 21.0 cm)
- *Weight:* 1.4 lb. (0.64 kg)
- *Other features:*
  - MessagePad 2000 Pen
  - Keyboard (some configurations)
  - Newton 2.1 operating system
  - Comes with Newton Connection Utilities and serial cables for connection to Windows software— or Mac OS—based computers
  - Newton Serial Adapter

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### **Key features**

- Makes it easy to back up and restore personal data to Windows software— or Mac OS—based computers via the included Newton Connection Utilities software and serial cables.
- Offers an extensive range of wired and wireless communications, including the ability to send and receive faxes and e-mail—and connect to the Internet or an organizational intranet—via an optional wired or wireless modem and included software; “beam” information to other Newton devices through point-to-point infrared technology; connect to your personal computer and networks to take advantage of files, printers, or network services; connect directly to a wide range of printers; or print wirelessly to IrDA printers.
- Provides built-in printer support for PostScript-equipped LaserWriter printers and the Personal LaserWriter LS and 300, as well as support for most popular PC printers through the optional Newton Print Pack; it also supports several Hewlett-Packard printers through its infrared technology capabilities.
- Allows you to record and play back voice notes through the built-in microphone and speaker. You can even record a meeting while taking handwritten notes.



# eMate 300



**At a glance** *(Note: This product is available to education customers only.)*

- Developed in close collaboration with educators, the eMate 300 is the first of a new class of affordable, mobile computers that complement Mac OS— and Windows-based PCs and offer students and teachers flexible access to technology when they need it.
- With its long battery life and unique industrial design, the eMate is rugged enough to withstand the rigors of student life: from the school bus, to the classroom, to the library or even field trips. Weighing only 4 pounds and small enough to fit in a backpack, the eMate 300 is easily portable, even for the youngest students.
- The eMate 300 features the easy-to-use, award-winning Newton operating system and comes with a host of built-in applications that are fundamental for learning.

## Specifications

- *Processor:* ARM 710a RISC
- *Speed:* 25 megahertz
- *Memory:* 3MB of RAM (1MB of DRAM and 2MB of Flash RAM); 8MB of ROM
- *Additional storage:* Expandable with the Newton 4MB Flash Storage Card
- *Expansion:* Slot for Type I, II, or III PC Cards
- *Ports:* Serial port, Newton InterConnect port, AC power port
- *Display:* 480- by 320-pixel gray-scale LCD with backlighting; displays up to 16 shades of gray
- *Sound:* Built-in speaker and sound-output ports
- *Battery:* NiMH rechargeable battery provides up to 24 hours of continuous use without recharging (depends on usage)



- *Communications*: Built-in LocalTalk port; point-to-point IrDA; optional PC Card modems
- *Dimensions (HWD)*: 12.0 by 11.4 by 2.1 inches (30.5 by 29.0 by 5.3 cm)
- *Weight*: 4.0 lb. (1.8 kg)
- *Other features*:
  - eMate 300 Pen
  - Newton 2.0 operating system
  - Includes word processing, drawing, graphing calculator, spreadsheet, address book, note-taking tools, and calendar software

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### **Key features**

- Weighs only 4 pounds, and features an attractive, easy-to-carry, yet extremely rugged design that's perfectly suited to educational use both inside and outside of the classroom.
- Includes a variety of input options—keyboard, pen, or touch-screen—that makes working with the eMate 300 simple enough for even the youngest students, and its infrared technology allows for easy, wireless information exchange with other, similarly equipped devices.
- Provides built-in printer support for PostScript-equipped LaserWriter printers, the Personal LaserWriter LS and 300 printers, and most StyleWriter printers, as well as support for most popular PC printers through the optional Newton Print Pack; also supports infrared to print wirelessly to an IrDA-compatible printer.
- Connects easily to external modems and desktop computers, and includes built-in TCP/IP capability—so students and teachers can easily tap into the vast communications and informational resources of the Internet's World Wide Web (requires optional modem and software).
- Comes with a variety of productivity software specifically selected to facilitate the learning process, and can take advantage of the hundreds of applications that have been developed for Newton 2.0.

# *Newton Mobile Products and eMate Accessories*

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## **MessagePad 130 and 2000, and eMate 300**

- MessagePad 2000 Pen
- MessagePad Telescoping Pen
- eMate 300 Pen
- eMate Replacement Pens
- MessagePad Rechargeable Battery Pack
- eMate Rechargeable Battery Pack
- MessagePad Charging Station
- MessagePad Carrying Case
- MessagePad and Newton Keyboard Leather Carrying Case
- MessagePad Wireless Communications Case

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## **Newton Platform**

- Newton Keyboard
- Newton Press for Mac OS/Newton Press for Windows OS
- Newton 2MB or 4MB Flash Storage Card
- Newton Print Pack
- Newton Serial Adapter
- Newton 9W Power Adapter/Power Adapter with Adapter Plugs
- Newton Adapter Plug Pack
- Newton Serial Cable

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## **Newton Toolkit 1.6**

The Newton Toolkit (for Mac OS or Windows) is a complete, high-level, object-oriented development system for the creation of applications for Newton devices. It combines rapid prototyping and interface building, a library of extensible components, and an interactive development model that enables you to see the results of your work in seconds. The Newton Toolkit runs on a Mac OS— or Windows-based computer, and is connected to a Newton device via serial or LocalTalk cables.

# Apple Software and Technologies

### ★ Mac OS 8

Mac OS 8 is the latest version of the popular Mac OS, the Macintosh operating system, already renowned for making complex technology reliable and easy to use—widely known as making the Macintosh “the computer for the rest of us.” Imitated but never equaled, the Mac OS provides an exceptionally easy-to-use graphical user interface, outstanding Internet access, state-of-the-art multimedia capabilities, and unrivaled support for working with both PC and Macintosh files. With Mac OS 8, Apple has built on these existing strengths to reassert our position as the industry leader in providing innovative, useful, and reliable system software. Mac OS 8 highlights include:

- *The industry's best user experience.* Mac OS 8 will increase your productivity and efficiency by translating today's new levels of computing power into features that make a real—and positive—difference in the way you work:

- Fully PowerPC-native Finder environment. This feature dramatically improves user productivity, with multitasking for all Finder operations, such as copying files, updating a window, emptying the Trash, and so on. In addition to performing multiple tasks concurrently, the new Finder is also faster and more responsive, leaving you in constant control of the system. Other major enhancements include dozens of efficient new menu and keyboard shortcuts—not to mention our unique “spring-loaded folders” and “pop-up windows,” which provide faster, easier-than-ever access to files and folders.

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- Scalable user-interface views and capabilities. The Mac OS 8 user interface is specifically designed to scale across a broad range of users, offering everything from a super-simplified desktop view for the very young or anyone relatively inexperienced with computer use to vastly more detailed viewing options and functionality geared toward power users' sophisticated needs. And everyone will enjoy the updated, modern visual appearance of Mac OS 8,



with its 3-D look and options such as Desktop Pictures, which allows users to customize the look of their desktops.

- *The easiest and most complete way to connect, explore, and publish on the Internet and World Wide Web.* Mac OS 8 is designed to make the Internet as simple and enjoyable to use as a Macintosh. Both easier to use and more useful than ever, the Internet services in Mac OS 8 support a range of users and activities:

- Easiest setup and connection. Mac OS 8 provides an online Internet Assistant that dramatically simplifies Internet installation, setup, and configuration. From there, the online assistance and Internet Installer offer guidance at every step of the way—even automating the process of selecting and registering with an appropriate Internet service provider. With Mac OS 8, you're up and running with e-mail and web access in just a few quick clicks.

- Explore with your choice of high-quality Internet tools. Mac OS 8 includes Netscape Navigator, Microsoft's Internet Explorer, America Online, Claris EMailer Lite, and the new push technologies from PointCast and Marimba. This broad range of access, browsing, and communications tools meets the needs of virtually every user. In addition, the new Connect To command in the Apple menu makes these tools easily accessible from the desktop.

- Become an Internet publisher in your own right. Apple Personal Web Sharing is built into Mac OS 8, giving users the ability to set up a personal web site in just a few easy steps. Useful for both ad hoc home pages and file serving, Personal Web Sharing uses the standard Internet networking protocol—TCP/IP—that is also an integral part of the Mac OS.

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### **A smooth transition into the future**

With its focus on providing the industry's most productive user experience and Internet services, Mac OS 8 offers significant advantages over previous and competitive system software offerings. It also continues Apple's outstanding record of backward compatibility, by supporting earlier Mac OS versions and applications. Mac OS 8 is compatible with most PowerPC and 68040 processor-based Mac OS computers with at least 12MB of RAM, protecting users' existing investments in hardware and applications software.

As the year 2000 approaches, Apple is hard at work developing a “next-generation” operating system to take our users into the next century. Code-named Rhapsody, this software will build on technologies developed by both Apple and the former NeXT Software (now a part of Apple) to provide a fully modern operating system with “industrial-strength” power and reliability. The first Rhapsody users will probably be in the areas of print publishing and new media—activities that demand increased performance and improved reliability on a frequent and ongoing basis. However, because Rhapsody will further improve the user experience and provide compatibility for Mac OS applications, we expect that most Apple customers will eventually choose to move to this new platform. Since Rhapsody is targeted for PowerPC processor-based systems and builds in support for the Mac OS, the smooth transition to Rhapsody will give customers increased productivity without disruption.

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### **Macintosh Application Environment 3.0**

Macintosh Application Environment (MAE) 3.0—the virtual Macintosh for UNIX-based systems—is an innovative software product that provides a complete Macintosh environment in an X window, allowing you to run Macintosh 680x0 applications right on your workstation.

MAE brings the functionality and ease of use of the Macintosh computer to Sun Microsystems SPARCstations running the Solaris operating system, as well as to Hewlett-Packard Series 700 workstations running HP-UX. MAE offers these benefits:

- *Makes networking easy.* Because MAE supports AppleTalk networking, it's easy to share printers, files, and e-mail with other Macintosh and MAE users on a network, and MacTCP support lets you run Internet-based applications. Version 3.0 offers dramatic performance gains for all applications and for remote X window display, floating licenses with FLEXlm technology, and much more.
- *Runs Macintosh applications.* Since MAE 3.0 is based on Macintosh System 7.5.3, you can easily run the most popular off-the-shelf Macintosh software—including spreadsheet, desktop publishing, word processing, graphics, e-mail, workgroup, calendar, and business applications.



- *Integrates smoothly with UNIX.* MAE also seamlessly integrates with the UNIX environment, allowing you to copy and paste text and graphics between UNIX and Macintosh applications. MAE lets you open UNIX files (including NFS-mounted volumes), access UNIX applications through the Macintosh interface, and use system services such as UNIX PostScript printers.

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### **At Ease 3.0: For sharing your family Macintosh**

With At Ease 3.0 software, you can manage your shared Macintosh and make it even easier to use. It's perfect for home use, offices, classrooms, and training centers. At Ease offers a choice of two interfaces that you can easily customize for every age and level of computer experience: the simple At Ease desktop, which features large buttons and folders; and the familiar Macintosh Finder interface. Whichever interface you choose, the security features of At Ease protect your files and applications. Version 3.0 offers several major improvements over the previous version:

- *Security within the Finder interface.*
- *Separate At Ease panels for CD-ROMs and floppy disks.* Makes it easier to access multimedia titles, and also lets you decide which CD titles and contents are appropriate for your children.
- *Simplified setup and configuration.*
- *Support for up to 40 users.* Lets you create customized environments for up to 40 people on non-networked computers, such as an entire school class.

### **The Mac OS includes advanced media software**

The performance of PowerPC processor technology enables Apple to provide compelling solutions in areas such as graphics and video. The current version of the Mac OS includes the technologies that combine to form the proposed QuickTime Media Layer (QTML)—an emerging standard for the creation of media-rich Internet content. QTML consists of the following:

- *QuickTime.* QuickTime is the most popular method today for creating and delivering multimedia content. In addition, QuickTime is everywhere on the Internet today—in fact, a majority of the audio and video content on the web was created using QuickTime. QuickTime technology provides a means of working with any compression/decompression standard to control virtually any digital media content. Encompassing much more than just video and sound, QuickTime also allows for the creation and control of text tracks, music/MIDI tracks, MPEG tracks, VR objects, 3D objects, 3D sprites, and animation tracks, giving content creators access to a wide array of media options.

QuickTime for Windows allows users to play and manipulate products created with a variety of QuickTime tools and materials from their current Macintosh production environment. These files can be created once, and deployed anywhere as well.

- *High-quality MPEG software for QuickTime.* The new QuickTime extension allows full-screen, software-only playback of popular MPEG-1 and VideoCD audio/video files on Mac OS–based systems with PowerPC processors. MPEG (Motion Picture Experts Group) is a worldwide industry standard for compressing synchronized audio and video for post-production and entertainment. The MPEG extension is available immediately for use with QuickTime 2.5 and may be downloaded from the QuickTime web site at <http://quicktime.apple.com>.

Through the MPEG extension, VHS-quality, full-screen video and CD-quality audio are now available as a synchronized data type in the QuickTime architecture. Apple has long recognized MPEG as an important industry standard and has supported hardware MPEG-1 playback on Macintosh computers since 1994. With this QTML software extension, Power Macintosh users no longer need special hardware to view a variety of MPEG files and formats.

The MPEG extension will also work seamlessly with the QuickTime plug-in for Netscape Navigator and Microsoft Internet Explorer, enabling real-time, live MPEG playback inside these browsers. The QuickTime Fast Start feature enables MPEG content to be viewed as it downloads, eliminating the delay associated with large multimedia files across low-bandwidth connections.

The extension is compatible with a wide range of Internet-based MPEG, including Variable Bit Rate (VBR) MPEG and audio-only or video-only streams, and can read specialized MPEG-encoded streams, broadening the ability for publishers to deliver interactive titles for Mac OS and Windows users.

- *QuickTime VR*. QuickTime VR is the acknowledged standard for creating and viewing photo-realistic environments (panoramas) and real-world objects on Mac OS— and Windows-based computers. This virtual-reality tool supports three types of interactive user experiences: a panoramic technology that lets users explore 360-degree scenes, an interaction technology that lets users pick up and interact with objects, and multi-node experiences that combine multiple scenes and objects.

- *QuickDraw 3D 1.5.1*. This technology brings OS-integrated, real-time, workstation-class three-dimensional graphics to desktop computing. The QuickDraw 3D toolkit provides a complete set of geometries; a shading and rendering architecture; an object-oriented, multiplatform file format (3DMF); a QD3D RAVE hardware abstraction layer for hardware acceleration; an input device architecture; and a set of 3D interface guidelines.

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## **The best tools for digital media**

The PowerPC processor, coupled with Apple's advanced multimedia capabilities, offers you the power to take on even the most demanding digital media projects. So if your plans include video integration, 3D animation, virtual reality, music composition, or use of other digital media, Apple provides the best environment for both integration and playback of these elements—whether you're working with the Mac OS or Windows, distributing the results via CD-ROM or the Internet.

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## **Macintosh Multimedia Kits**

Many Macintosh computers are designed to accommodate these affordable, user-installable multimedia kits, so you can tailor your Macintosh to provide the specific multimedia capabilities you need. The kits are as follows:

- *Apple Video System.* This multimedia solution comes with a user-installable video card and software that lets you easily add still video images to the documents and presentations you create on your Macintosh computer. The video card allows you to connect a VCR, a camcorder, a laserdisc player, or other video source to your computer with a single cable.
- *Apple TV/FM Radio System.* This kit builds on the capabilities of the Apple Video System to provide access to FM radio as well as to television. It even allows simultaneous access to both—all while you're working on your Macintosh. The Apple TV/FM Radio System comes with a plug-in card with TV and FM radio tuners, along with easy-to-use control software.

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## HyperCard 2.3

HyperCard is an easy-to-use development tool for creating a wide range of custom software solutions. It lets you organize information through the metaphor of “stacks” of “cards” through which you can navigate and search for information. By simply clicking a button, you can view related text, graphics, or QuickTime movies, as well as listen to sounds. Although it’s simple enough for use by nonprogrammers, it also provides a robust prototyping and development environment for professional developers, with powerful scripting tools (including built-in AppleScript support), a modeless script editor, hypertext support, debugging tools, and more. HyperCard 2.3 is designed to take advantage of the PowerPC processor, and is optimized for high performance on 680x0-based Macintosh computers. It also includes a number of enhanced features:

- *Color and media integration tools.* The previous set of color tools has been enhanced to enable 24-bit color painting. And a complete suite of multimedia utilities for morphing and adding QuickTime movies has been added.
- *Ease of use.* HyperCard lets you integrate QuickTime movies, graphics, sounds, and spoken text within your stacks easily—no scripting experience is required.
- *New interface feature.* As part of the move from passive to active interface, HyperCard text can now be read aloud by your computer.

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## Apple Media Tool 2.1

The Apple Media Tool (AMT) is a visual, object-based authoring environment that lets creative designers integrate media elements—such as QuickTime movies, PICT files, text, and sound files—and then make them interact through a direct manipulation interface to create interactive multimedia titles, support and training modules, and other similar projects. Also available is the Apple Media Tool Programming Environment, which allows programmers to customize interactive multimedia projects in a new object-based language called the Apple Media Language. (Products are sold separately.)



- *Application launching.* Lets authors launch applications, including web browsers and other applications, from AMT run-times. Users have the ability to open multiple Internet sites, and CD-ROM titles can become a “front end” for Internet exploration.
- *Collaboration aid.* Frees creative team members to work simultaneously on various aspects of the same project—programmers can spend their time developing media elements or “objects,” while designers use Apple Media Tool to make these elements interact and build a project.
- *Separate storage formats.* Stores media separately from the application—which reduces application size, and lets you replace work-in-progress with finished content without losing any of the relationships set up between objects.
- *QuickTime integration.* Takes advantage of Apple’s industry-standard QuickTime technology.
- *Cross-platform development.* Lets you deliver interactive multimedia projects on both Mac OS and Windows software-based systems using the same content. The Apple Media Tool Programming Environment gives programmers access to both Macintosh and Windows toolboxes through a C language interface.
- *Runtime tool.* Includes Runtime Maker, which lets you create finished files and publish them on CD-ROM discs for Macintosh computers or for computers running Windows. Creates projects native to both PowerPC and 680x0 processor-based computers.

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## *Additional Digital Media Products*

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### **Avid Cinema**

**140** Avid Cinema is a complete hardware and software solution that lets you create professional-looking movies right on your Macintosh computer—easily and inexpensively. Designed for novices, it steps you through the process of storyboarding, filming, and editing, as well as recording the finished movie to videotape or storing it as a QuickTime movie for use in multimedia presentations or on a World Wide Web site. Avid Cinema works with PowerPC processor-based Macintosh Performa or Power Macintosh computers



that are equipped with a PCI slot and either built-in composite or S-video input or the Apple Video System. It consists of the following components:

- Avid Cinema card
- Avid Cinema software
- Two triple-head composite video cables
- One S-video cable
- Y-adaptor cable for providing two-channel audio from your computer to a VCR

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### **Apple MPEG Media System**

The Apple MPEG Media System lets you watch full-screen, full-motion, high-resolution, VHS-quality video on your Macintosh. It lets you resize the video window up to the full size of your screen, and place it anywhere on the screen. And it gives you comprehensive control over your viewing of multimedia CDs, letting you play, pause, step forward, or reverse. [The MPEG standard, set by the Motion Picture Experts Group (MPEG), ensures that various hardware and software systems all use the same rules of compression and decompression, producing consistently high-quality video display.] The Apple MPEG Media System works with Macintosh and Power Macintosh computers that are equipped with an LC processor-direct slot, a video slot, a CD-ROM drive, and the Apple Video System or Apple TV/Video System. The Apple MPEG Media System consists of the following components:

- Apple MPEG Card
- Apple Video Player software
- A selection of CD-ROMs, including games and interactive education titles
- Internal connector cable

### **AppleShare IP 5.0**

The next generation of Apple's well-known AppleShare file, print, and applications sharing software, AppleShare IP 5.0 reflects Apple's move to embrace open networking standards. It couples the traditional low cost of ownership and ease of use of AppleShare with the TCP/IP protocol central to Internet technology—allowing Apple servers running AppleShare to be seamlessly integrated into IP-based intranets. Featuring the high performance of a native PowerPC application, AppleShare IP 5.0 expands on and enhances the services that AppleShare previously provided to include web, mail, and FTP services, offering users a simple, effective way to share information and resources.

Designed for small-business users or department- or workgroup-level enterprise customers, AppleShare IP 5.0 supports both TCP/IP and AppleTalk, allowing users to access the server and share files in a consistent manner over both types of networks, as well as to mount Apple File Protocol (AFP) volumes over the Internet. The following are a few of the new, Internet technology-specific features:

- The AppleShare IP 5.0 Web Server includes Common Gateway Interface (CGI) support, and is designed to share security with the file server for easier administration.
- The included FTP server supports all common FTP commands, as well as anonymous log-ins. It includes both BinHex and Mac Binary encoding, allowing users to collaborate and share files within the local network and across the Internet from remote locations.
- The included mail server provides fast and simple Internet e-mail capabilities via the Post Office Protocol (POP)/Simple Mail Transport Protocol (SMTP) mail services, and offers compatibility with nearly every mail client on the market—including clients for not only the Mac OS, but also Windows, UNIX, and OS/2.

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## **The Apple Internet Server Solution for the World Wide Web**

The Apple Internet Server Solution is an easy and affordable way to make your information available on the World Wide Web. It consists of a Workgroup Server and a CD-ROM that contains all of the software required to get started publishing on the Internet. It's the perfect solution for organizations in business, education, or publishing that want to make their information widely accessible on the Internet.

With the Apple Internet Server Solution, you get the following tools:

- WebSTAR/SSL from StarNine
- MacDNS from Apple
- NetCloak and Rumpus from Maxum Development
- FireSite Speed Booster and Virtual Domain Manager from ClearWay
- LogDoor from Open Door
- MacTCP Watcher from Stairways
- PageSentry from Maxum
- Adobe Acrobat Reader
- Netscape Navigator
- Butler SQL Server and Tango Enterprise from EveryWare
- BBEdit from Bare Bones Software
- Claris Home Page
- GoLive CyberStudio

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## **Cyberdog 2.0**

Cyberdog is a unique suite of Internet tools that lets you customize your Internet access and combine Internet functionality with existing applications under a single, seamless user interface.

Cyberdog components include mail and newsgroup services, with powerful searching, sorting, and filing options; a browser for web, File Transfer Protocol (FTP), and Gopher sites; Notebook and Log files, which let you save your favorite Internet sites, e-mail addresses, and files, and track the sites you've visited; and an AppleTalk network browser. In addition, because Cyberdog uses Apple's QuickTime Media Layer, it displays all of the common Internet media types.

Cyberdog integrates disparate Internet functions into a consistent Mac OS user experience, whether you're dealing with a site's URL or a data file. And the modular nature of Cyberdog also means that you can choose to replace or update any of its components—a boon to anyone trying to stay abreast of the fast-changing world of the Internet.

Cyberdog makes the vast amount of Internet information truly manageable, by letting you organize just the resources relevant to the task at hand. Using the Cyberdog DocBuilder, you can create applications that include not only text and graphics, but also active Internet links or views, simply by dragging and dropping in those items. Simply put, Cyberdog lets you control how you access and use the Internet and its vast resources.

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### **Apple Personal Web Sharing**

This technology, licensed from Maxum Development, is designed to facilitate information sharing across an intranet for individuals. It enables you to use your Mac OS–based system to publish information to an intranet, as well as to share information with users working on other platforms, such as Windows (including both Windows NT and Windows 95), UNIX, and OS/2—as long as those users have access to a web browser.

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### **★• WebObjects**

WebObjects is software for Windows NT and UNIX that allows developers to build dynamic web-based applications. It is a server technology that connects your corporate data and applications directly to a web server, and builds HTML pages automatically as customers make requests. You can have anything from a simple script to a robust application automating order management, securing travel arrangements, or plotting weather patterns from a satellite and displaying the results dynamically in visually appealing, interactive web pages. Clients receive up-to-date information, and your applications can also be enhanced by client-side technologies.

★•144

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### **★ OPENSTEP Enterprise**

This uniquely flexible development environment is designed to help organizations improve productivity and gain a competitive

edge. Featuring an efficient object-oriented approach, OPENSTEP Enterprise makes it easy to create dynamic new business applications that make the best possible use of existing enterprise applications and data resources. And it supports the deployment of these applications across entire enterprises, on a variety of platforms.

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## *Networks and Communications*

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### **Open Transport**

Apple Open Transport is a set of integrated software tools designed to help users configure, and organizations manage, multiprotocol networking on the Macintosh. It supports AppleTalk and TCP/IP networking, as well as serial data communications. Apple Open Transport features new, easy-to-use control panels and offers a choice of three levels of user control: Basic, Advanced, and Administrator. It provides a superset of the functionality of the previous TCP/IP Connection for Macintosh and AppleTalk Connection for Macintosh, adding support for dynamic and static protocol addressing in AppleTalk, as well as TCP/IP support for IP multicast for Internet multimedia applications and the Dynamic Host Configuration Protocol (DHCP) for easier network management. Open Transport is a built-in feature of Mac OS 7.5.3 and later.

### **MacX: Apple's high-performance X Window System solution for the Mac OS**

MacX 2.0 software makes it easy to access network-based X applications from your Macintosh or Power Macintosh computer. Accelerated for Power Macintosh and supporting the latest X Window System industry standard—X11 Release 6—MacX 2.0 lets you run X applications side by side with your favorite software for the Mac OS. You can even cut and paste text and graphics between the two environments. And users in multivendor environments will appreciate the MacX support for standard networking protocols. Simple to set up and use, MacX is the easiest way to connect your Macintosh to the X Window System.



## Apple Remote Access

Apple Remote Access (ARA) lets you use a modem or ISDN connection and telephone lines to connect a remote Macintosh or PowerBook computer to another Macintosh computer or to an entire AppleTalk or TCP/IP network, including the Internet. The Apple Remote Access product family provides an easy-to-use, cost-effective, and secure solution for individuals, workgroups, and even large organizations.

- *Apple Remote Access Client for Mac OS.* This software allows any Mac OS–based computer to easily dial into a remote network and use its AppleTalk or TCP/IP network services concurrently. For example, you can browse Internet sites while you are sending a presentation to a printer at your office. You can also use the software to connect to a Mac OS–based computer running ARA Personal Server or ARA MultiPort Server, or to call the Internet via your Internet service provider (ISP). It is compatible with Apple Remote Access Protocol (ARAP) v2.0 servers, including the ARA 2.1 family of products from Apple and third-party servers that support ARAP. It is also compatible with third-party Point-to-Point Protocol (PPP) servers that support AppleTalk (ATCP), TCP/IP (IPCP), or both.
- *Apple Remote Access Personal Server.* Ideal for individuals or small organizations, this product enables users to access their Mac OS–based computer and any AppleTalk and TCP/IP network resources from a remote location. It's easy to install and use. New with version 3.0 is built-in PPP support. Enabling PPP makes TCP/IP services available to clients running on any operating system. Third-party software allows remote PCs to access AppleTalk network resources via PPP. Easy-to-use administrative features give you complete control over network access. Included with the ARA 3.0 Personal Server software is the ARA 3.0 Client Software.
- *Apple Remote Access MultiPort Server.* This product offers remote AppleTalk network access for large numbers of mobile professionals. When used in conjunction with Apple Remote Access Client software and the appropriate hardware, this software converts a single Macintosh or Workgroup Server into a



server that can support up to 16 simultaneous connections. Version 2.1 includes a NuBus serial card that can support up to four simultaneous connections. With the addition of third-party NuBus serial cards, it can support up to 16 ports. Version 2.1.1 includes a PCI serial card for up to six simultaneous connections, or up to 15 ports with the addition of third-party PCI serial cards. Remote users can use TCP/IP applications if the network has an IP Gateway installed. IP Gateway capabilities are included with AppleShare IP 5.0, and are also available via third-party hardware and software products.

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### ● **AppleSearch**

AppleSearch information access and retrieval software provides an easy-to-use, powerful way for users of Mac OS–based or Windows 3.1 software–based computers (on an AppleTalk network) to find text-based information within documents stored on file servers, whether they’re local servers in your office or remote WAIS servers connected to the Internet. AppleSearch lets users conduct concurrent, personalized searches on a server, and ranks the found documents in order of relevance. User-defined search criteria, called “reporters,” track topics of interest—including online news feeds—and automatically format updates. Users can quickly find information on topics they specify, or they can let AppleSearch act as a personal agent that periodically provides updated information. AppleSearch processes natural-language queries, so users can ask for information in their own words.

- *AppleSearch server software.* Maintains a feature-rich search engine that processes the queries of AppleSearch client users.
- *AppleSearch client software.* Provides electronic reporters and newspaper-like updates as an intuitive way to retrieve information from the server. Lets users work in the operating system environment with which they are most familiar—whether it’s the Mac OS or Windows 3.1.
- *AppleSearch Client Developer Kit.* Includes basic software for developers who want to write custom client interfaces to the AppleSearch server or to integrate AppleSearch functionality into other applications.

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## MacSNMP

MacSNMP is Apple's implementation of the industry-standard network management protocol. It allows easy management of Macintosh computers on a network using a variety of available third-party consoles. MacSNMP is supplied with all of the Connection for Macintosh products, including AppleTalk Connection for Macintosh and TCP/IP Connection for Macintosh.

MacSNMP requires an older Macintosh model configured to use classic networking. It cannot be installed on a system using Open Transport.

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## Apple Internet Router

The Apple Internet Router implements the AppleTalk Update-based Routing Protocol (AURP), to substantially reduce network traffic over wide area networks (WANs) and to maximize use of network resources. It supports LocalTalk, Ethernet, and Token Ring connection, with wide-area linkage via dial-up modems, X.25, or TCP/IP.

- *Basic Connectivity Package.* Routes AppleTalk over local area networks (LANs) and dial-up modem connections.
- *AppleTalk/X.25 Wide Area Extension.* Routes AppleTalk over X.25 WANs.
- *AppleTalk/IP Wide Area Extension.* Routes AppleTalk over an IP internet via IP tunneling.

The Apple Internet Router software can be installed only on an older Macintosh model configured to use classic networking. It cannot be installed on a system using Open Transport. Other Mac OS-based systems on the network, running either classic networking or Open Transport, can utilize the services provided by the Apple Internet Router software.

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## Apple IP Gateway

With the Apple IP Gateway, Macintosh users with Apple Remote Access, LocalTalk, or any other AppleTalk network connection can connect easily to an Ethernet-based TCP/IP network to use the full range of Internet Protocol (IP) services—including the vast array of Internet services such as Telnet, File Transfer Protocol (FTP), Gopher, World Wide Web, and Wide Area Information Servers (WAIS).

- *Flexible configuration.* In conjunction with the Apple Internet Router software, the Apple IP Gateway provides IP access to any Macintosh computer that is part of the router's internet. When used in conjunction with an Apple Remote Access server, it provides access to remote or mobile users. Can be used as a stand-alone product, and can be installed on Macintosh computers with NuBus slots.
- *Ease of setup, use, and administration.* The Apple IP Gateway installs in minutes. Lets users transparently access TCP/IP and Internet resources.
- *Increased security.* Dynamic address assignment reduces the chance of entry from external networks. IP access can be restricted to specific AppleTalk networks.

The Apple IP Gateway software can be installed only on an older Macintosh model configured to use classic networking. It cannot be installed on a system using Open Transport. Other Mac OS-based systems on the network, running either classic networking or Open Transport, can utilize the services provided by the Apple IP Gateway software.

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## MacX25 software

MacX25 software links Macintosh computers to packet-switched data networks (PSDNs) supporting CCITT Recommendation X.25. Access to host computers and end-user services on the PSDN is then distributed from the server to Macintosh computers over the AppleTalk network system. MacX25 supports AppleTalk routing over X.25 when used with the Apple Internet Router, and it supports standard messaging when used with MacX.400 software.

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## **Apple Network Administrator Toolkit**

The Apple Network Administrator Toolkit provides powerful, yet easy-to-use management software for controlling and managing all of the systems on your network from a single point. Designed for network managers in every setting from education to business, this software lets you protect applications, documents, CDs, and system settings with At Ease for Workgroups, Apple's popular security and access management tool. It also helps you to keep track of whether everyone on your network is using the right version of each application, as well as to update those who aren't—easily and efficiently. You can also restart or shut down multiple systems simply, restore a hard disk to a known configuration, provide personal assistance to users across the network through a special screen-sharing function, and more.

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## *Language Kits*

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### **Apple Language Kits**

Apple Language Kits provide an easy way to create, edit, and print documents in a variety of languages. You can install all the kits on one computer and even mix languages in a single document. The included TrueType fonts allow you to display and print text in any type size. Use the language kits to access foreign web pages using a World Wide Web browser such as Netscape Navigator. Where appropriate, the kit includes a choice of input methods and a set of transparent labels to attach to the surface of the existing keyboard. These kits are not translation software; users must know the language the kit supports. Language kits available:

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- *Arabic*—Arabic and Farsi
- *Chinese*—Simplified and Traditional Chinese
- *Cyrillic*—Bulgarian, Russian, and Ukrainian
- *Hebrew*—Hebrew and Yiddish
- *Indian*—Hindi, Sanskrit, Gujarati, Marathi, Punjabi, and Nepalese
- *Japanese*—Japanese
- *Korean*—Korean

# QuickCharts



# Desktop Computers QuickChart

Model	Processor	Memory	Storage	Key features
<b>Macintosh Performa 6360</b>	160-MHz PowerPC 603e with math coprocessor; 32K on-chip cache; 256K level 2 cache (optional)	16MB; supports up to 136MB	1.2GB; 8x-speed CD-ROM drive	Fast PowerPC performance in a flexible, modular design; unique multimedia expansion options; PCI expansion slot; built-in high-speed modem; Energy Star compliant
<b>Macintosh Performa 6400 Series</b>	180-MHz or 200-MHz PowerPC 603e with math coprocessor; 32K on-chip cache; 256K level 2 cache (some configurations)	16MB; supports up to 136MB	1.6GB or 2.4GB; 8x-speed CD-ROM drive	Faster PowerPC performance in an innovative mini-tower design; many multimedia features; two PCI expansion slots; built-in high-speed modem; energy-saving sleep mode
<b>Power Macintosh 4400/200</b>	200-MHz PowerPC 603e with math coprocessor; 32K on-chip cache; 256K level 2 cache	16MB; supports up to 160MB	2GB; 12x- or 24x-speed CD-ROM drive	Faster PowerPC performance; innovative design with economical industry-standard parts; two PCI expansion slots; Ethernet port; Energy Star compliant
<b>Power Macintosh 4400/200 PC Compatible</b>	200-MHz PowerPC 603e with math coprocessor; 32K on-chip cache; 256K level 2 cache; Cyrix PR166 6x86	32MB, supports up to 160MB (Mac OS); 16MB, supports up to 80MB (PC Compatibility Card)	2GB; 12x-speed CD-ROM drive	Hardware-level Windows and MS-DOS 6.22 compatibility; two PCI expansion slots; Ethernet port

<b>Power Macintosh 5400 Series</b>	180-MHz or 200-MHz PowerPC 603e with math coprocessor; 32K on-chip cache; 256K level 2 cache (some configurations)	16MB or 32MB; supports up to 136MB	1.2GB or 1.6GB; CD-ROM drive	Faster PowerPC performance in an innovative all-in-one design; unique multimedia expansion options; PCI expansion slot; Ethernet port; Energy Star compliant
<b>Power Macintosh 5500/225</b>	225-MHz PowerPC 603e with math coprocessor; 32K on-chip cache; 256K level 2 cache	32MB; supports up to 128MB	2GB; CD-ROM drive	Faster PowerPC performance in an innovative all-in-one design; hardware acceleration of graphics and video; unique multimedia features; PCI expansion slot; Ethernet port; energy-saving sleep mode
<b>Power Macintosh 6400/200</b>	200-MHz PowerPC 603e with math coprocessor; 32K on-chip cache; 256K level 2 cache	16MB; supports up to 136MB	2.4GB; 8x-speed CD-ROM drive	Faster PowerPC performance in an innovative mini-tower design; many multimedia features; two PCI expansion slots; Ethernet port; energy-saving sleep mode
<b>Power Macintosh 6500 Series</b>	225-, 250-, 275-, or 300-MHz PowerPC 603e; 32K on-chip cache; 256K or 512K level 2 cache	32MB, 48MB, or 64MB; supports up to 128MB	2GB, 3GB, or 4GB; 12x-speed CD-ROM drive; 100MB Zip drive (some models)	Faster PowerPC performance in an innovative mini-tower design; many multimedia features; two PCI expansion slots; built-in Ethernet or modem; energy-saving sleep mode; software included with Home, Small Business, and Creative Studio models
<b>Power Macintosh 7300 Series</b>	180-MHz or 200-MHz (166-MHz in Europe) PowerPC 604e with math coprocessor; 64K on-chip cache	16MB or 32MB; supports up to 512MB	2GB; 12x-speed CD-ROM drive; one additional 3.5-inch storage device	Fast PowerPC 604e performance; three PCI expansion slots; Ethernet ports

# Desktop Computers QuickChart

Model	Processor	Memory	Storage	Key features (continued)
<b>Power Macintosh 7300/180 PC Compatible</b>	180-MHz PowerPC 604e with math coprocessor; 64K on-chip cache; 256K level 2 cache; 166-MHz Pentium	32MB; supports up to 512MB (Mac OS); 16MB; supports up to 80MB (PC Compatibility Card)	2GB; 12x-speed CD-ROM drive; one additional 3.5-inch storage device	Hardware-level Windows and MS-DOS 6.22 compatibility; three PCI expansion slots; Ethernet ports
<b>Power Macintosh 7600/200</b>	200-MHz PowerPC 604e with math coprocessor; 64K on-chip cache; 256K level 2 cache	32MB; supports up to 136MB	2GB; 12x-speed CD-ROM drive; one additional 3.5-inch storage device	Powerful professional system; fast PowerPC 604e performance; three PCI expansion slots; Ethernet ports
<b>Power Macintosh 8600 Series</b>	250-MHz or 300-MHz new PowerPC 604e with math coprocessor; 32K on-chip data and instruction caches; 1MB of Apple inline cache (level 2) on processor card	32MB; supports up to 512MB	4GB; 24x-speed CD-ROM drive; Zip drive; additional storage devices accommodated	Powerful, feature-rich system; new PowerPC 604e performance; directly accessible inline cache; three PCI expansion slots; digital video input/output; Ethernet ports

<b>Power Macintosh 9600 Series</b>	300-MHz or 350-MHz new PowerPC 604e with math coprocessor; 32K on-chip data and instruction caches; 1MB of Apple inline cache (level 2) on processor card	64MB; supports up to 768MB	4GB; 24x-speed CD-ROM drive; Zip drive; additional storage devices accommodated	High-performance, expandable Power Macintosh computer; new tower design for easy access; fastest PowerPC performance; six PCI expansion slots; Ethernet ports
<b>Power Macintosh 9600/200MP</b>	Two 200-MHz PowerPC 604e with math coprocessors; 64K on-chip cache; 512K level 2 cache	32MB; supports up to 768MB	4GB; 12x-speed CD-ROM drive; additional storage devices accommodated	Multiprocessor model for computation-intensive tasks; new tower design for easy access; six PCI expansion slots; Ethernet ports
<b>The Twentieth Anniversary Macintosh</b>	250-MHz PowerPC 603e with math coprocessor; 32K on-chip cache; 256K level 2 cache	32MB; supports up to 128MB	2GB; vertical-mount CD-ROM drive	Special, limited-edition Macintosh with many multimedia capabilities in an all-in-one design; Bose Acoustimass sound system; built-in Apple TV/FM Radio System; high-speed modem; PCI expansion slot; custom keyboard

# Portable Computers QuickChart

Model	Processor	Memory	Storage	Key features
<b>Macintosh PowerBook 1400cs/117</b>	117-MHz PowerPC 603e with math coprocessor; 32K on-chip cache	12MB or 16MB; supports up to 64MB	1GB; removable 8x-speed CD-ROM drive (some configurations)	PowerPC performance; innovative design; dual-scan color display; PC Card slots and expansion bay; pre-installed software; IR technology; Energy Star compliant
<b>Macintosh PowerBook 1400cs/133</b>	133-MHz PowerPC 603e with math coprocessor; 32K on-chip cache; 128K level 2 cache	16MB; supports up to 64MB	1.3GB; removable 8x-speed CD-ROM drive	PowerPC performance; innovative design; dual-scan color display; PC Card slots and expansion bay; pre-installed software; IR technology; Energy Star compliant
<b>Macintosh PowerBook 1400c/133</b>	133-MHz PowerPC 603e with math coprocessor; 32K on-chip cache; 128K level 2 cache	16MB; supports up to 64MB	1.3GB; removable 8x-speed CD-ROM drive	PowerPC performance; innovative design; active-matrix color display; PC Card slots and expansion bay; pre-installed software; IR technology; Energy Star compliant
<b>Macintosh PowerBook 1400c/166</b>	166-MHz PowerPC 603e with math coprocessor; 32K on-chip cache; 128K level 2 cache	16MB; supports up to 64MB	2GB; removable 8x-speed CD-ROM drive	PowerPC performance; innovative design; active-matrix color display; PC Card slots and expansion bay; pre-installed software; IR technology; Energy Star compliant



<b>Macintosh PowerBook 2400c/180</b>	180-MHz PowerPC 603e with math coprocessor; 32K on-chip cache; 256K level 2 cache	16MB; supports up to 80MB	1.3GB	Smallest, lightest PowerBook; PowerPC performance; active-matrix color display; PC Card slots; preinstalled software; IR technology; Energy Star compliant
<b>Macintosh PowerBook 3400c/180</b>	180-MHz PowerPC 603e with math coprocessor; 32K on-chip cache; 256K level 2 cache	16MB; supports up to 144MB	1.3GB; removable 6x-speed CD-ROM drive (some configurations)	Faster PowerPC performance; active-matrix color display; PC Card slots and expansion bay; preinstalled software; IR technology; built-in Ethernet and modem (most configurations); Energy Star compliant
<b>Macintosh PowerBook 3400c/200</b>	200-MHz PowerPC 603e with math coprocessor; 32K on-chip cache; 256K level 2 cache	16MB; supports up to 144MB	2GB; removable 6x-speed CD-ROM drive	Faster PowerPC performance; active-matrix color display; PC Card slots and expansion bay; preinstalled software; IR technology; built-in Ethernet and modem (most configurations); Energy Star compliant
<b>Macintosh PowerBook 3400c/240</b>	240-MHz PowerPC 603e with math coprocessor; 32K on-chip cache; 256K level 2 cache	16MB; supports up to 144MB	3GB; removable 12x-speed CD-ROM drive	Fastest PowerPC performance in a PowerBook computer; active-matrix color display; PC Card slots and expansion bay; preinstalled software; IR technology; built-in Ethernet and modem (most configurations); Energy Star compliant

# Apple Printers QuickChart

Model	Resolution (dots per inch)	Printing speed (pages per minute)	Recommended number of users	Fonts	Key features
ImageWriter II	144 dpi	0.5 ppm (best mode) 2 ppm (draft mode)	1 user	4 fonts	Prints on forms; color printing capability
★ Color StyleWriter 4100	600 by 600 dpi (black & white); 600 by 300 dpi (color)	4 ppm (black & white) 1.5 ppm (color)	1 user	64 TrueType fonts	Most affordable color ink-jet printer; bundled software for creative printing projects
★ Color StyleWriter 4500	600 by 600 dpi (black & white); 600 by 300 dpi (color)	5 ppm (black & white) 1.7 ppm (color) .25 ppm (Color PhotoGrade)	1 user	64 TrueType fonts	High-quality photo-realistic color ink-jet printer; bundled software for flexible multimedia options
★ Color StyleWriter 6500	600 by 600 dpi (black & white); 600 by 300 dpi (color)	8 ppm (black & white) 4 ppm (color)	3–5 users; optional EtherTalk adapter	64 TrueType fonts (Mac OS); 42 TrueType fonts (Windows)	High-performance, cross-platform color ink-jet printer; flexible networking capabilities; bundled software
LaserWriter 4/600 PS	600 dpi	4 ppm	1–3 users	64 TrueType and 35 PostScript fonts	Economical, networkable PostScript printer
LaserWriter 12/640 PS	600 dpi with FinePrint and PhotoGrade (with 12MB of RAM)	12 ppm	3–20 users	64 TrueType and 35 PostScript fonts	Flexible paper handling; cross-platform support; duplex printing option

<b>LaserWriter 12/640 PS Plus</b>	600 dpi with FinePrint and PhotoGrade	12 ppm 8 ppm with duplex printing	3–20 users	64 TrueType and 35 PostScript fonts	Duplex printing; 830-sheet total capacity
★ <b>LaserWriter 8500</b>	600 dpi with improved (up to 150 lpi) PhotoGrade and FinePrint	20 ppm	10 or more users	136 PostScript 3 fonts (TrueType and Type 1)	High-performance workgroup printer; Adobe PostScript 3 and cross-platform support; flexible paper-handling options; full-bleed ledger/A3 paper and duplex printing
<b>Color LaserWriter 12/660 PS</b>	600 dpi with Color PhotoGrade	12 ppm (black & white) 3 ppm (color) 1 ppm (color transparencies)	10–20 users	64 TrueType and 39 PostScript fonts	Superior-quality color laser printing; cross-platform support; Energy Star compliant

★ New model.

# Apple Printer Supplies QuickChart

Printer model	Apple printer supplies	Reorder number
ImageWriter I	Black Ribbon	A2M0077
ImageWriter II	Black Ribbon	A2M0077
	Color Ribbon	A9G0331
ImageWriter LQ	Black Ribbon	A9G0335
	Color Ribbon	A9G0336
Scribe	Black Scribe Ribbon	A9G0328
StyleWriter I	StyleWriter Ink Cartridge	M8041G/C
StyleWriter II	StyleWriter Ink Cartridge	M8041G/C
StyleWriter 1200	StyleWriter Ink Cartridge	M8041G/C
Portable StyleWriter	StyleWriter Ink Cartridge	M8041G/C
Apple Color Printer	Cyan Ink Cartridge	M6904G/A
	Magenta Ink Cartridge	M6903G/A
	Yellow Ink Cartridge	M6902G/A
	Black Ink Cartridge	M6901G/A
	Apple Color Printer A3 Paper, 200 pk.	T0547G/A

<b>Color StyleWriter Pro</b>	Cyan Ink Cartridge	M1949G/A
	Magenta Ink Cartridge	M1950G/A
	Yellow Ink Cartridge	M1951G/A
	High-Capacity Black Ink Cartridge	M3822G/A
<b>Color StyleWriter 1500</b>	Color StyleWriter Ink Cartridge (C-M-Y)	M4609G/A
	StyleWriter Ink Cartridge (Black)	M8041G/C
<b>Color StyleWriter 2200</b>	Black Ink Cartridge (including High-Capacity Black Tank)	M3909G/A
	Color Ink Cartridge (including Color and Black Ink Tanks)	M3908G/A
	Black Ink Tank (for Color Ink Cartridge), 3-pack	M3912G/A
	Color Ink Tank (for Color Ink Cartridge), 3-pack	M3911G/A
	High-Capacity Black Ink Tank (for Black Ink Cartridge), 3-pack	M3910G/A
<b>Color StyleWriter 2400</b>	Color Ink Cartridge (including color and black ink tank)	M3328G/A
	Color Ink Tank (for use with Color Ink Cartridge only)	M3329G/A
	Black Ink Tank (for use with Color Ink Cartridge only)	M3330G/A
	High-Performance Black Ink Cartridge	M3240G/A



# Apple Printer Supplies QuickChart

Printer model	Apple printer supplies	Reorder number	(continued)
<b>Color StyleWriter 2500</b>	Color Ink Cartridge (including color and black ink tank)	M3328G/A	
	Color Ink Tank (for use with Color Ink Cartridge only)	M3329G/A	
	Black Ink Tank (for use with Color Ink Cartridge only)	M3330G/A	
	High-Performance Black Ink Cartridge	M3240G/A	
	Apple Color Ink-Jet Premium Plus Coated Paper, LTR 200 pk.	M4792G/A	
	Apple Color Ink-Jet Premium Plus Coated Paper, A4 200 pk.	M4791G/A	
	Color PhotoGrade Print Kit	M5577LL/A	
	Color PhotoGrade Ink Cartridge*	M5579G/A	
	Color PhotoGrade Paper, LTR 60 pk.*	M5578G/A	
	Color PhotoGrade Paper, A4*	M5581G/A	
<b>Color StyleWriter 4100 and 4500</b>	Color Ink Cartridge	M5694G/A	
	Black Ink Cartridge	M5693G/A	
	Color Ink-Jet Greeting Card Kit, LTR (20 envelopes, 20 sheets)	M5965G/A	
	Color Ink-Jet Greeting Card Kit, A4 (20 envelopes, 20 sheets)	M5966G/A	
<b>Color StyleWriter 4500</b>	Color PhotoGrade Ink Cartridge	M5692G/A	
	Color Ink-Jet Color PhotoGrade Paper, LTR 20 pk.	M5961G/A	
	Color Ink-Jet Color PhotoGrade Paper, A4 20 pk.	M5962G/A	
	Color Ink-Jet Banner Paper, LTR 100 pk.	M5963G/A	
	Color Ink-Jet Banner Paper, A4 100 pk.	M5964G/A	

\* For use only with Color PhotoGrade supplies.

<b>Color StyleWriter 6500</b>	Color Ink Cartridge	M5659G/A
	Black Ink Cartridge	M5658G/A
	Color Ink-Jet Greeting Card Kit, LTR (20 envelopes, 20 sheets)	M5965G/A
	Color Ink-Jet Greeting Card Kit, A4 (20 envelopes, 20 sheets)	M5966G/A
<b>All Apple color ink-jet printers</b>	Apple Color Ink-Jet Premium Coated Paper, A4 200 pk.	M2951G/A
	Apple Color Ink-Jet Premium Coated Paper, LTR 200 pk.	M2952G/A
	Apple Color Ink-Jet Premium Plus Coated Paper, A4 200 pk.	M4791G/A
	Apple Color Ink-Jet Premium Plus Coated Paper, LTR 200 pk.	M4792G/A
	Apple Color Ink-Jet Glossy Paper, LTR 50 pk.	M3655G/A
	Apple Color Ink-Jet Glossy Paper, A4 50 pk.	M3656G/A
	Apple Color Ink-Jet Back-Print Film, LTR 20 pk.	M2953G/A
	Apple Color Ink-Jet Back-Print Film, A4 20 pk.	M2954G/A
	Apple Color Ink-Jet Transparency Film, LTR 20 pk.	M2658G/A
	Apple Color Ink-Jet Transparency Film, A4 20 pk.	M1959G/A
<b>LaserWriter and LaserWriter Plus</b>	LaserWriter Toner Cartridge	M0180
<b>LaserWriter IISC, IINT, IINTx, IIl, IIg</b>	LaserWriter II Toner Cartridge	M6002
<b>Personal LaserWriter LS, SC, NT, NTR</b>	Personal LaserWriter Toner Cartridge	M0089LL/A

# Apple Printer Supplies QuickChart

Printer model	Apple printer supplies	Reorder number	(continued)
Personal LaserWriter 300, 320; LaserWriter 4/600 PS	Personal LaserWriter 300 Series Toner Cartridge	M2045G/A	
LaserWriter Select 300, 310, 360	LaserWriter Select Toner Cartridge	M1960G/A	
LaserWriter Pro 600, 630; LaserWriter 16/600 PS	LaserWriter Pro Toner Cartridge	M2473G/A	
LaserWriter Pro 810	Extended Capacity Cartridge Kit	M3602G/A	
LaserWriter 12/640 PS, LaserWriter 12/640 PS Plus	Duplex Printing Unit 500-Sheet Cassette and Feeder Envelope Cassette Face-up Output Tray Toner Cartridge	M4697G/A M4682G/A M4680G/A M4698G/A M4683G/A	

<b>LaserWriter 8500</b>	LaserWriter 8500 <i>Plus</i> Upgrade Kit	M6102G/A
	Duplex Printing Unit	M5896G/A
	Hard Disk Kit	M5898G/A
	500-Sheet Ledger/A3 Cassette and Feeder	M5894G/A
	500-Sheet Ledger/A4 Cassette and Feeder	M5895G/A
	Envelope Cassette	M5897G/A
	High-Capacity Toner Cartridge	M5893G/A
<b>Color LaserWriter 12/600 PS, Color LaserWriter 12/660 PS</b>	Color LaserWriter Toner Cartridge, Cyan	M3757G/A
	Color LaserWriter Toner Cartridge, Magenta	M3760G/A
	Color LaserWriter Toner Cartridge, Yellow	M3758G/A
	Color LaserWriter Toner Cartridge, Black	M3756G/A
	Color LaserWriter Photoconductor Replacement Kit*	M3761G/A
	Color LaserWriter Fuser Oil	M3755G/A
	Color LaserWriter Fuser Replacement Kit 110V	M3867G/A
	Color LaserWriter Fuser Replacement Kit 220V	M4234G/A
	Color LaserWriter Transparencies, LTR 50 pk.	M3876G/A
	Color LaserWriter Transparencies, A4 50 pk.	M3877G/A

\* Note: Photoconductor prints 5,000 to 25,000 pages, depending on use of color per page.

# Apple Displays QuickChart

Model	Screen size	Screen refresh rate	Display format	Dimensions (HWD) and weight	Key features
<b>Apple Multiple Scan 15<sup>av</sup> Display</b>	15-inch (diagonal); 13.75-inch (diagonal viewable image size); flat, square screen; shadow mask tube	60–75 hertz (varies by resolution)	Selectable from 640 by 480 pixels to 1,024 by 768 pixels (Mac OS)	16.1 by 17.3 by 16.0 in.; 30.0 lb.	Flat screen for sharp image; multiple-scan technology for user-adjustable resolution settings; works with Macintosh computers and PCs running Windows; integrated stereo speakers and headphone jack; Energy Star and MPR 2 compliant
<b>Apple Multiple Scan 1705 Display</b>	17-inch (diagonal); 15.8-inch (diagonal viewable image size); flat, square screen; shadow mask tube	60–75 hertz (varies by resolution)	Selectable from 640 by 480 pixels to 1,024 by 768 pixels (Mac OS)	17.2 by 16.6 by 18.8 in.; 45.2 lb.	Full-page display; multiple-scan technology for user-adjustable resolution settings; works with Macintosh computers and PCs running Windows; compatible with Windows 95; Plug and Play; Energy Star and MPR 2 compliant
<b>AppleVision 750 Display</b>	17-inch (diagonal); 16.1-inch (diagonal viewable image size); Sony Trinitron tube	67–75 hertz (varies by resolution)	Selectable from 640 by 480 pixels to 1,280 by 960 pixels (Mac OS)	16.8 by 16.2 by 17.6 in.; 49.0 lb.	Sony Trinitron tube; multiple-scan technology for user-adjustable resolution settings; works with Macintosh computers and PCs running Windows; compatible with Windows 95; Plug and Play; Energy Star and MPR 2 compliant



<b>AppleVision 750Av Display</b>	17-inch (diagonal); 16.1-inch (diagonal viewable image size); Sony Trinitron tube	67–75 hertz (varies by resolution)	Selectable from 640 by 480 pixels to 1,280 by 1,024 pixels (Mac OS)	19.7 by 15.8 by 17.6 in.; 60.0 lb.	Sony Trinitron tube; multiple-scan technology for user-adjustable resolution settings; works with Macintosh computers and PCs running Windows; compatible with Windows 95; Plug and Play; integrated stereo speakers and voice recognition– capable microphone; Energy Star and MPR 2 compliant
<b>AppleVision 850 Display</b>	20-inch (diagonal); 19-inch (diagonal viewable image size); Sony Trinitron tube	Up to 85 hertz (varies by resolution)	Selectable from 640 by 480 pixels to 1,600 by 1,200 pixels (Mac OS)	18.7 by 19.1 by 20.2 in.; 67.4 lb.	Sony Trinitron tube; multiple-scan technology for user-adjustable resolution settings; works with Macintosh computers and PCs running Windows; compatible with Windows 95; Plug and Play; Energy Star and MPR 2 compliant
<b>AppleVision 850Av Display</b>	20-inch (diagonal); 19-inch (diagonal viewable image size); Sony Trinitron tube	Up to 85 hertz (varies by resolution)	Selectable from 640 by 480 pixels to 1,600 by 1,200 pixels (Mac OS)	21.8 by 19.1 by 23.4 in.; 92.0 lb.	Sony Trinitron tube; multiple-scan technology for user-adjustable resolution settings; works with Macintosh computers and PCs running Windows; compatible with Windows 95; Plug and Play; integrated stereo speakers and voice recognition– capable microphone; Energy Star and MPR 2 compliant

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