



Apple Facts

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The Macintosh Advantage

Desktop Computer Systems

Multimedia Products

Portable Computers

Servers and Networking Products

Printers, Displays, and Imaging

Personal Digital Assistants

Apple Software

QuickCharts

Welcome to **AppleFacts 5.96**—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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A key to symbols used in *AppleFacts*:

- 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 Macintosh Advantage

The Macintosh Advantage

Why Macintosh?

"Why should I buy a Macintosh instead of a PC clone running Windows?" The short answer to that question is this: People are more productive with Macintosh.

"Why does a Macintosh make people more productive than a PC running Windows?" There are a number of reasons, which fall into four general categories: ease of use, power, advanced multimedia, and compatibility.

- *Ease of use.* Right from the start, the Macintosh was designed with ease of use in mind, and Macintosh computers continue to offer unmatched ease-of-use features for every aspect of computing. The Mac OS provides context-sensitive, step-by-step assistance in the form of Apple Guide—the state of the art in on-line help. In addition, unlike the PC world, Macintosh computers feature a mature plug-and-play technology that makes expanding each computer's capabilities a simple procedure, as well as providing straightforward Internet access and powerful telephony capabilities. Three points sum up the Macintosh advantage in ease of use:

- Macintosh hardware and software is better integrated.

- DOS, with its inherent drawbacks and difficulties, is still a key part of Windows 95.


- Throughout its design, the Mac OS includes features that reflect Apple's focus on the user.

- *Power.* Power Macintosh computers offer the high-performance advantage of the RISC-based PowerPC processor. Several independent studies have shown that Power Macintosh computers generally run application programs significantly faster than comparable Pentium processor-based PCs running Windows.

And this Macintosh performance power advantage is augmented by additional features:

- Powerful applications (thousands of 32-bit applications)
- Powerful system software features, such as AppleScript and WorldScript
- Powerful built-in hardware features
 - *Advanced multimedia.* Multimedia is increasingly important, and Macintosh computers are way ahead of the competition in this area. While PC manufacturers are still struggling to get CD-ROMs to run properly—or at all—Apple is moving Macintosh ahead to such advanced features as three-dimensional graphics, video capture and playback, speech recognition and synthesis, and even virtual reality. Macintosh computers offer the following:
 - Advanced drawing and text features
 - State-of-the-art MIDI sound support
 - MPEG capabilities
 - Easy and advanced videoconferencing, through QuickTime Conferencing software
 - *Compatibility.* Macintosh computer can easily fit 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 Macintosh PC Exchange software, an integral part of the Mac OS. And there are software solutions that let Macintosh computers actually run thousands of applications for MS-DOS and Windows. In addition, either of the PC Compatibility Cards from Apple can turn any Power Macintosh with PCI slots into a versatile system that runs MS-DOS and Windows as well as the Mac OS. There's even a computer from Apple that comes with a PC Compatibility Card installed: the Power Macintosh 7200/120 PC Compatible. Macintosh offers the following compatibility features:
 - Easy cross-platform file sharing
 - Hardware and software solutions for running applications for MS-DOS and Windows—even Windows 95
 - Easy connection to multivendor networks

What comes with every Macintosh

- *System 7.5.* The popular Macintosh operating system. Imitated, but never equaled, System 7.5 makes Macintosh incredibly easy to learn and use. It runs on all Apple Macintosh computers, offering capabilities such as multitasking, virtual memory, on-screen help, and file sharing.  144


- *PowerPC processor technology.* Every Macintosh computer available today either comes with a PowerPC processor or is upgradable to take advantage of PowerPC processor technology. RISC-based PowerPC processors provide a breakthrough in price/performance value over previous, CISC-based processors. Taking advantage of these processors' power and speed, software developers have already designed more than 1,400 applications that provide new levels of performance.

- *Internet connection capability.* Because the Mac OS includes MacTCP, which enables Macintosh computers to communicate on TCP/IP networks, it's easy to use your Macintosh to access the Internet through the Internet application programs included with every Macintosh.

- *Peripheral Component Interconnect (PCI slots).* The newest Power Macintosh computers feature PCI expansion slots, rather than the NuBus slots used by previous computers from Apple. PCI offers three main advantages: higher performance (up to three times faster), more solutions (because it's a computer industry standard shared with the PC world, with a number of solutions already available), 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, DOS, Windows, 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 Macintosh program, and save your work back to the MS-DOS disk.

- *Built-in networking ports.* All Macintosh computers come with a LocalTalk port, which lets you easily connect Macintosh computers together in an AppleTalk network, and many come

with built-in Ethernet ports or offer an Ethernet option. You can also connect a Macintosh to DECnet, TCP/IP, SNA, APPC, 3270, and X.25 networking environments.  92

- **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 connection to printers.*** It’s easy to connect your Macintosh to an Apple printer—all you need is a single cable. And if you are connected to more than one printer over a network, it’s easy to select the particular printer you want to use.
- ***SCSI port.*** You can connect as many as six SCSI devices to your Macintosh—hard disk drives, CD-ROM drives, scanners, and more—with no need for extra cards or connectors.
- ***Apple Desktop Bus.*** The Apple Desktop Bus (ADB) port is a built-in peripheral port for input devices—such as mouse controllers, keyboards, and graphics tablets. It lets you easily customize your Macintosh to work the way you do by adding input devices to suit your needs. All Macintosh computers offer an ADB port—and some models have two.
- ***Sound capabilities.*** Every Macintosh can play back high-quality sound. And all Macintosh models feature sound-input capabilities, so you can add voice annotation or music to your work.
- ***Built-in video.*** Nearly all Macintosh computers come standard with built-in video support. There’s no need to purchase, configure, or install video cards. The Macintosh LC 580; Performa 5200CD and 5300CD series; Power Macintosh 5200/75 LC, 5260/100, 5300/100 LC, and 5400/120; PowerBook; and PowerBook Duo computers have displays built in. All other Macintosh computers have built-in support for a variety of Apple displays (on the Power Macintosh 9500/150, video support is supplied by a PCI card).
- ***Built-in features designed to meet the needs of individuals with disabilities.*** Out of the box, the Macintosh is the most accessible personal computer available, offering features for individuals with difficulties in sight, hearing, and movement.

Desktop Computer Systems

Macintosh Performa 5200CD Series

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At a glance


- The Macintosh Performa 5200CD series computers combine the high performance of PowerPC technology with advanced multimedia capabilities—in an innovative and advanced all-in-one design. [Note: These computers are not sold in the same channels worldwide as the Power Macintosh 5200/75 LC.]
- Their RISC-based PowerPC 603 microprocessor provides the power needed to handle complex multimedia content.
- They offer a number of multimedia options, including an internal TV tuner to view television channels in a window on the computer screen and a video-input card to connect your video camera or VCR.

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

- **Processor:** PowerPC 603 RISC with integrated math coprocessor and 16K on-chip cache; 256K level 2 cache
- **Speed:** 75 megahertz
- **Memory:** 8MB of RAM, expandable to 64MB
 - One 8MB SIMM and one 72-pin SIMM slot
- **Storage:**
 - Internal Apple SuperDrive floppy disk drive
 - Internal 800MB or 1GB hard disk drive
 - Internal quadruple-speed CD-ROM drive
- **Expansion capabilities:** Macintosh LC-compatible processor-direct slot; communications slot for Ethernet card; video slot for NTSC, PAL, or SECAM video-input card; bay for TV-tuner module; supports five external SCSI devices

- *Ports:* Two serial ports*, ADB port, optional video connector that can support connection to another display or the Apple Presentation System, SCSI port, sound-input port (mono), sound-output port (stereo)
- *Displays:* Built-in 15-inch flat, square multiple-scan RGB display (12.8-inch diagonal viewable image size)
- *Networking ports:* Built-in LocalTalk; optional Ethernet (requires Ethernet card)
- *Dimensions (HWD):* 17.5 by 15.1 by 16.0 inches (44.5 by 38.3 by 40.6 cm)
- *Weight:* 47.0 lb. (21.2 kg)—will vary based on internal devices installed
- *Other features:*
 - Headphone jack and push-button sound and brightness controls located on front
 - Comes with a variety of third-party applications; most configurations include a modem

Key features

- Features the RISC-based PowerPC 603 processor, which provides unprecedented power for your Performa computer.
- Offers impressive—and flexible—multimedia capabilities in an innovative and advanced all-in-one design.
- Lets you adjust the display for maximum viewing convenience, using its tilt-and-swivel base and multiple-scan technology.
- Lets you easily expand the multimedia capabilities of your system to include MPEG playback or by connecting one of a variety of multimedia kits.  53
- Lets you add an Ethernet card.
- Includes an expansion bay for an optional TV tuner.
- Qualifies for the EPA Energy Star rating (U.S.A.) as an energy-efficient product.

Other Macintosh models to consider

- If you want the flexibility of a modular design so you can select your own display, consider the Macintosh Performa 6200CD.

* Only one serial port available in configurations with an internal modem.

Macintosh Performa 5300CD Series

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At a glance

- The Macintosh Performa 5300CD series computers combine the high performance of PowerPC technology with advanced multimedia capabilities—in an innovative and convenient all-in-one design. [Note: These computers are not sold in the same channels worldwide as the Power Macintosh 5300/100 LC.]
- Their RISC-based 100-megahertz PowerPC 603e microprocessor brings a new level of power to an all-in-one system, making it easier than ever to create, handle, and play back complex multimedia content.
- They include an internal TV tuner to view television channels in a window on the screen and a video-capture card to record input from a video camera or VCR (Europe and Pacific only).

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

- **Processor:** PowerPC 603e RISC with integrated math coprocessor and 16K on-chip cache; 256K level 2 cache
- **Speed:** 100 megahertz
- **Memory:** 8MB or 16MB of RAM, expandable to 64MB
 - One 8MB or 16MB SIMM and one 72-pin SIMM slot
- **Storage:**
 - Internal Apple SuperDrive floppy disk drive
 - Internal 1.2GB hard disk drive
 - Internal quadruple-speed CD-ROM drive
- **Expansion capabilities:** Macintosh LC-compatible processor-direct slot; communications slot for either Ethernet or modem card; video slot for NTSC, PAL, or SECAM video-input card;

TV-tuner module; supports five external SCSI devices

- *Ports:* Two serial ports, ADB port, optional video connector that supports connection to another display or the Apple Presentation System, SCSI port, sound-input port (mono), sound-output port (stereo)

- *Displays:* Built-in 15-inch flat, square multiple-scan RGB display (12.8-inch diagonal viewable image size)

- *Networking ports:* Built-in LocalTalk; optional Ethernet (requires Ethernet card)

- *Dimensions (HWD):* 17.5 by 15.1 by 16.0 inches (44.5 by 38.3 by 40.6 cm)

- *Weight:* 47.0 lb. (21.2 kg)—will vary based on internal devices installed

- *Other features:*

- Headphone jack and push-button sound controls located on front

- Comes with a variety of third-party applications and CDs

Key features

- Features the RISC-based PowerPC 603e processor, which provides unprecedented power for your Performa computer.

- Offers impressive—and flexible—multimedia capabilities in an innovative and advanced all-in-one design.

- Lets you adjust for maximum viewing convenience, using its tilt-and-swivel base and multiple-scan technology.

- Includes a video-capture card for video input from video cameras or VCRs and a built-in TV tuner for viewing television input in a window on the screen (Europe and Pacific only).

- Lets you add either an Ethernet card or a high-speed fax/data modem, through its communications slot.

- Qualifies for the EPA Energy Star rating (U.S.A.) as an energy-efficient product.

Other Macintosh models to consider

- If you want the flexibility of a modular design so you can select your own display, consider the Macintosh Performa 6300CD.

Macintosh Performa 6200CD Series



At a glance


- The Macintosh Performa 6200CD series computers combine the high performance of PowerPC technology with advanced multimedia capabilities—in a flexible modular design.
- Their RISC-based PowerPC 603 microprocessor provides the power needed to create and handle complex multimedia content quickly and easily.
- They offer a number of multimedia options, including an internal TV tuner to view television channels in a window on the computer screen.

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

- **Processor:** PowerPC 603 RISC with integrated math coprocessor and 16K on-chip cache; 256K level 2 cache
- **Speed:** 75 megahertz
- **Memory:** 8MB of RAM, expandable to 64MB
 - One 8MB SIMM and one 72-pin SIMM slot
- **Storage:**
 - Internal Apple SuperDrive floppy disk drive
 - Internal 1GB or 1.2GB hard disk drive
 - Internal quadruple-speed CD-ROM drive
- **Expansion capabilities:** Macintosh LC-compatible processor-direct slot; communications slot for either Ethernet or modem card; video slot for NTSC, PAL, or SECAM video-input card; bay for TV-tuner module; supports five external SCSI devices

- *Ports:* Two serial ports*, ADB port, monitor port, SCSI port, sound-input port (mono), sound-output port (stereo)
- *Displays:* Built-in support for Apple displays of up to 15 inches in size
- *Networking ports:* Built-in LocalTalk; optional Ethernet (requires Ethernet card)
- *Dimensions (HWD):* 4.3 by 12.6 by 16.5 inches (10.9 by 32.0 by 41.9 cm)
- *Weight:* 19.0 lb. (8.6 kg)—will vary based on internal devices installed
- *Other features:*
 - Headphone jack and push-button sound controls located on front
 - Comes with a variety of third-party applications and CDs

Key features

- Features the RISC-based PowerPC 603 processor, which provides unprecedented power for your Performa computer.
- Offers impressive multimedia capabilities in a flexible modular design.
- Lets you easily expand the multimedia capabilities of your system to include MPEG playback or by connecting one of a variety of multimedia kits.  53
- Lets you add either an Ethernet card or a high-speed fax/data modem, through its communications slot.
- Includes an expansion bay for an optional TV tuner.
- Provides 16-bit, CD-quality sound-output capabilities.
- Qualifies for the EPA Energy Star rating (U.S.A.) as an energy-efficient product.

Other Macintosh models to consider

- If you want the convenience of an all-in-one system, you should consider the Macintosh Performa 5200CD, which provides the multimedia features of the Macintosh Performa 6200CD in an innovative design.

* Only one serial port available in configurations with an internal modem.

Macintosh Performa 6300CD Series



At a glance


- The Macintosh Performa 6300CD combines the high performance of PowerPC technology with advanced multimedia capabilities—in a flexible modular design.
- Its powerful RISC-based 100-megahertz PowerPC 603e microprocessor makes it easier than ever to create, handle, and play back complex multimedia content.

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

- *Processor:* PowerPC 603e RISC with integrated math coprocessor and 32K on-chip cache; 256K level 2 cache
- *Speed:* 100 or 120 megahertz
- *Memory:* 8MB or 16MB of RAM, expandable to 64MB
 - One 8MB or 16MB SIMM and one 72-pin SIMM slot
- *Storage:*
 - Internal Apple SuperDrive floppy disk drive
 - Internal 1.2GB hard disk drive
 - Internal quadruple-speed CD-ROM drive
- *Expansion capabilities:* Macintosh LC-compatible processor-direct slot; communications slot for either Ethernet or modem card; video slot for NTSC, PAL, or SECAM video-input card; bay for TV-tuner module; supports five external SCSI devices
- *Ports:* Two serial ports, ADB port, monitor port, SCSI port, sound-input port (mono), sound-output port (stereo)

- *Displays:* Built-in support for Apple displays of up to 15 inches in size
- *Networking ports:* Built-in LocalTalk; optional Ethernet (requires Ethernet card)
- *Dimensions (HWD):* 4.3 by 12.6 by 16.5 inches (10.9 by 32.0 by 41.9 cm)
- *Weight:* 19.0 lb. (8.6 kg)—will vary based on internal devices installed
- *Other features:*
 - Headphone jack and push-button sound controls located on front
 - Comes with a variety of third-party applications and CDs

Key features

- Features the RISC-based PowerPC 603e processor, which provides unprecedented power for your Performa computer.
- Offers impressive multimedia capabilities in a flexible modular design.
- Lets you easily expand the multimedia capabilities of your system to include MPEG playback or by connecting one of a variety of multimedia kits.  53
- Lets you add either an Ethernet card or a high-speed fax/data modem, through its communications slot. (Some configurations may include a fax/data modem.)
- Includes an expansion bay for an optional TV tuner. (Configurations in some countries may include a TV tuner.)
- Provides 16-bit, CD-quality sound-output capabilities.

Other Macintosh models to consider

- If you want the convenience of an all-in-one system, you should consider the Macintosh Performa 5300CD series, which provides the multimedia features of the Macintosh Performa 6300CD in an innovative design.

Macintosh LC 580

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

- The Macintosh LC 580 has an all-in-one design, is optimized for multimedia, and can be upgraded to take advantage of the PowerPC processor.

Specifications


- *Processor:* 68LC040 with 32-bit data bus
- *Speed:* 66/33 megahertz
- *Memory:* 8MB of RAM, expandable to 52MB
 - 4MB on the logic board, one 4MB SIMM, and one 72-pin SIMM slot
- *Storage:*
 - Internal Apple SuperDrive floppy disk drive
 - Internal 800MB hard disk drive
 - Internal CD-ROM drive (most configurations)
- *Expansion capabilities:* Macintosh LC-compatible processor-direct slot; communications slot for Ethernet or modem card; video slot for NTSC, PAL, or SECAM video-input card; supports six SCSI devices
- *Ports:* Two serial ports, ADB port, optional video connector that can support connection to another display or the Apple Presentation System, SCSI port, sound-input/output ports
- *Displays:* Built-in 14-inch (diagonal) high-resolution display; supports 32,768 colors
- *Networking ports:* Built-in LocalTalk; optional Ethernet (requires Ethernet card)
- *Dimensions (HWD):* 17.9 by 13.5 by 16.5 inches (45.5 by 34.3 by 41.9 cm)

- *Weight:* 40.5 lb. (18.3 kg)—will vary based on internal devices installed

- *Other features:*

—Comes with a variety of third-party applications and CDs (CD configurations only)

Key features

- Provides the power of a Motorola 68LC040 processor.
- Can be upgraded to take advantage of the PowerPC processor.
- Offers advanced multimedia capabilities in a convenient all-in-one design.
- Lets you easily expand the multimedia capabilities of your system to include MPEG playback or by connecting one of a variety of multimedia kits.  53
- Lets you add either an Ethernet card or a high-speed fax/data modem, through its communications slot.
- Qualifies for the EPA Energy Star rating (U.S.A.) as an energy-efficient product.

Other Macintosh models to consider

- The Macintosh Performa 6200CD series computers feature a modular design that lets you choose the monitor that best meets your needs.
- The Macintosh 5200/75 LC offers the power of the PowerPC processor in an innovative all-in-one design, and is optimized for multimedia.

Power Macintosh 5200/75 LC

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


- The Power Macintosh 5200/75 LC combines the high performance of PowerPC technology with advanced multimedia capabilities in an innovative all-in-one design.
- Its RISC-based PowerPC 603 microprocessor provides the power needed to create and handle complex multimedia content quickly and easily.
- It offers a number of multimedia options, including an internal TV tuner to view television channels in a window on the computer screen and a video-input card to connect your video camera or VCR.

Specifications

- *Processor:* PowerPC 603 RISC with integrated math coprocessor and 16K on-chip cache; 256K level 2 memory cache
- *Speed:* 75 megahertz
- *Memory:* 8MB of RAM, expandable to 64MB
 - One 8MB SIMM and one 72-pin SIMM slot
- *Storage:*
 - Internal Apple SuperDrive floppy disk drive
 - Internal 500MB hard disk drive
 - Internal quadruple-speed CD-ROM drive
- *Expansion capabilities:* Macintosh LC-compatible processor-direct slot; communications slot for either Ethernet or modem card; video slot for NTSC, PAL, or SECAM video-input card; bay for TV-tuner module; supports five external SCSI devices

- *Ports:* Two serial ports, ADB port, optional video connector that can support connection to another display or the Apple Presentation System, SCSI port, sound-input port (mono), sound-output port (stereo)
- *Displays:* Built-in 15-inch flat, square multiple-scan RGB display (12.8-inch diagonal viewable image size)
- *Networking ports:* Built-in LocalTalk; optional Ethernet (requires Ethernet card)
- *Dimensions (HWD):* 17.5 by 15.1 by 16.0 inches (44.5 by 38.3 by 40.6 cm)
- *Weight:* 47.0 lb. (21.2 kg)—will vary based on internal devices installed
- *Other features:*
—Headphone jack and push-button sound and brightness controls located on front

Key features

- Features the RISC-based PowerPC 603 processor, which provides unprecedented power for your Power Macintosh computer.
- Offers impressive—and flexible—multimedia capabilities in an innovative and advanced all-in-one design.
- Lets you adjust the display for maximum viewing convenience, using its tilt-and-swivel base and multiple-scan technology.
- Lets you easily expand the multimedia capabilities of your system to include MPEG playback or by connecting one of a variety of multimedia kits.  53
- Lets you add either an Ethernet card or a high-speed fax/data modem, through its communications slot.
- Includes an expansion bay for an optional TV tuner.
- Qualifies for the EPA Energy Star-rating (U.S.A.) as an energy-efficient product.

Other Macintosh models to consider

If your tasks might require higher performance, you should consider the Power Macintosh 5300/100 LC which offers a faster processor (100-MHz PowerPC 603e) in the same innovative all-in-one design.

Power Macintosh 5260/100

★24



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


- The Power Macintosh 5260/100 is Apple's lowest-cost all-in-one PowerPC system.
- It was designed with cost savings in mind, with such features as optional level 2 cache and an economical 14-inch tilt-and-swivel display, but its 100-megahertz PowerPC 603e processor gives it plenty of power to handle a variety of advanced tasks.
- It offers a number of multimedia options, including an internal TV tuner to view television channels in a window on the computer screen and a video-input card to connect your video camera or VCR.

Specifications

- **Processors:** PowerPC 603e with integrated math coprocessor and 16K on-chip cache; optional 256K level 2 memory cache
- **Speed:** 100 megahertz
- **Memory:** 16MB of RAM, expandable to 64MB
 - One 16MB SIMM and one 72-pin SIMM slot
- **Storage:**
 - Internal Apple SuperDrive floppy disk drive
 - Internal 800MB hard disk drive
 - Internal quadruple-speed CD-ROM drive (most configurations)
- **Expansion capabilities:** Macintosh LC-compatible processor-direct slot; communications slot for either Ethernet or modem card; video slot for NTSC, PAL, or SECAM video-input card; bay for TV-tuner module; MPEG connector for MPEG card; supports five external SCSI devices

- *Ports:* Two serial ports, ADB port, optional video connector that supports connection to another display, high-performance SCSI port, sound-input port (stereo), sound-output port (stereo)
- *Displays:* Built-in 14-inch shadow mask display
- *Networking ports:* Built-in LocalTalk; optional Ethernet (requires Ethernet card)
- *Dimensions (HWD):* 17.5 by 15.1 by 16.3 inches (44.5 by 38.3 by 41.4 cm)
- *Weight:* 44.9 lb. (20.2 kg)—will vary based on internal devices installed
- *Other features:*
—Headphone jack and push-button sound controls located on front

Key features

- Features the RISC-based PowerPC 603e processor, which provides unprecedented power for your Power Macintosh computer.
- Offers impressive—and flexible—multimedia capabilities in an innovative and advanced all-in-one design.
- Lets you adjust for maximum viewing convenience, using its tilt-and-swivel base.
- Lets you easily expand the multimedia capabilities of your system to include MPEG playback or by connecting one of a variety of multimedia kits.  53
- Lets you add either an Ethernet card or a high-speed fax/modem, through its communications slot.
- Includes an expansion bay for an optional TV tuner.
- Qualifies for the EPA Energy Star rating (U.S.A.) as an energy-efficient product.

Other Macintosh models to consider

If your tasks might require more power and flexibility, you should consider the Power Macintosh 5400/120, which offers:

- A faster processor (120-megahertz PowerPC 603e, as opposed to the 100-megahertz PowerPC 603e).
- A PCI expansion slot.

Power Macintosh 5300/100 LC

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

- The Power Macintosh 5300/100 LC combines the high performance of PowerPC technology with impressive built-in multimedia capabilities—in an innovative and convenient all-in-one design.
- Its RISC-based 100-megahertz PowerPC 603e microprocessor brings a new level of power to an all-in-one system, making it easier than ever to create, handle, and play back complex multimedia content.

Specifications

- **Processor:** PowerPC 603e RISC with integrated math coprocessor and 16K on-chip cache; 256K level 2 memory cache
- **Speed:** 100 megahertz
- **Memory:** 16MB of RAM, expandable to 64MB
—One 16MB SIMM and one 72-pin SIMM slot
- **Storage:**
—Internal Apple SuperDrive floppy disk drive
—Internal 1.2GB hard disk drive
—Internal quadruple-speed CD-ROM drive
- **Expansion capabilities:** Macintosh LC-compatible processor-direct slot; communications slot for either Ethernet or modem card; video slot for NTSC, PAL, or SECAM video-input card; bay for TV-tuner module (comes with tuner installed); supports five external SCSI devices
- **Ports:** Two serial ports, ADB port, video connector that supports connection to another display, SCSI port, sound-input port (mono), sound-output port (stereo)

- *Displays:* Built-in 15-inch flat, square multiple-scan RGB display (12.8-inch diagonal viewable image size)
- *Networking ports:* Built-in LocalTalk; optional Ethernet (requires Ethernet card)
- *Dimensions (HWD):* 17.5 by 15.1 by 16.0 inches (44.5 by 38.3 by 40.6 cm)
- *Weight:* 47.0 lb. (21.2 kg)—will vary based on internal devices installed
- *Other features:*
 - Headphone jack and push-button sound controls located on front
 - Built-in video-capture card and TV tuner

Key features

- Features the RISC-based PowerPC 603e processor, which provides unprecedented power for your Power Macintosh computer.
- Offers impressive—and flexible—multimedia capabilities in an innovative and advanced all-in-one design.
- Lets you adjust for maximum viewing convenience, using its tilt-and-swivel base and multiple-scan technology.
- Includes a video-capture card for video input from video cameras or VCRs and a built-in TV tuner for viewing television input in a window on the screen.
- Lets you add either an Ethernet card or a high-speed fax/data modem, through its communications slot.
- Qualifies for the EPA Energy Star rating (U.S.A.) as an energy-efficient product.

Other Macintosh models to consider

If your tasks might require more power and flexibility, you should consider the Power Macintosh 5400/120, which offers:

- A faster processor (120-megahertz PowerPC 603e, as opposed to the 100-megahertz processor in the Power Macintosh 5300/100 LC).
- A PCI expansion slot.

Power Macintosh 5400/120

★28



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


- The Power Macintosh 5400/120 is an all-in-one system that packs a lot of power into a convenient, compact package.
- It features the PCI expansion architecture, which makes it easy to tailor the computer to meet your particular needs.
- It offers a number of multimedia options, including an internal TV tuner to view television channels in a window on the computer screen and a video-input card to connect your video camera or VCR.

Specifications

- *Processors:* PowerPC 603e with integrated math coprocessor and 32K on-chip cache; optional 256K level 2 memory cache
- *Speed:* 120 megahertz
- *Memory:* 16MB of RAM, expandable to 136MB—8MB on the logic board, one 8MB DIMM, and one DIMM slot
- *Storage:*
 - Internal Apple SuperDrive floppy disk drive
 - Internal 1.6GB hard disk drive
 - Internal quadruple-speed CD-ROM drive
- *Expansion capabilities:* One PCI slot; PCI-based communications slot for either Ethernet or modem card; video slot for NTSC, PAL, or SECAM video-input card; bay for TV-tuner module; 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

- *Displays:* Built-in 15-inch flat, square multiple-scan RGB display (12.8-inch diagonal viewable image size)
- *Networking ports:* Built-in LocalTalk; optional Ethernet (requires Ethernet card)
- *Dimensions (HWD):* 17.5 by 15.1 by 16.0 inches (44.5 by 38.3 by 40.6 cm)
- *Weight:* 47.0 lb. (21.2 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

Key features

- Features the RISC-based PowerPC 603e processor, which provides unprecedented power for your Power Macintosh computer.
- Offers impressive—and flexible—multimedia capabilities in an innovative and advanced all-in-one design.
- 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.  53
- Lets you add either an Ethernet card or a high-speed fax/modem, through its communications slot.
- Includes an expansion bay for an optional TV or TV/FM tuner.
- Qualifies for the EPA Energy Star rating (U.S.A.) as an energy-efficient product.

Power Macintosh 6200/75

30



At a glance

- The Power Macintosh 6200/75 combines the high performance of PowerPC technology with advanced multimedia capabilities—in a flexible modular design.
- Its RISC-based PowerPC 603 microprocessor provides the power needed to create and handle complex multimedia content quickly and easily.
- It offers a number of multimedia options, including an internal TV tuner to view television channels in a window on the computer screen.


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

- **Processor:** PowerPC 603 RISC with integrated math coprocessor and 16K on-chip cache; 256K level 2 memory cache
- **Speed:** 75 megahertz
- **Memory:** 8MB of RAM, expandable to 64MB
 - One 8MB SIMM and one 72-pin SIMM slot
- **Storage:**
 - Internal Apple SuperDrive floppy disk drive
 - Internal 500MB hard disk drive (minimum configuration)
 - Internal quadruple-speed CD-ROM drive
- **Expansion capabilities:** Macintosh LC-compatible processor-direct slot; communications slot for either Ethernet or modem card; video slot for NTSC, PAL, or SECAM video-input card; bay for TV-tuner module; supports five external SCSI devices
- **Ports:** Two serial ports*, ADB port, monitor port, SCSI port, sound-input port (mono), sound-output port (stereo)

* Only one serial port available in configurations with an internal modem.

- *Displays:* Built-in support for Apple displays of up to 15 inches in size
- *Networking ports:* Built-in LocalTalk; optional Ethernet (requires Ethernet card)
- *Dimensions (HWD):* 4.3 by 12.6 by 16.5 inches (10.9 by 32.0 by 41.9 cm)
- *Weight:* 19.0 lb. (8.6 kg)—will vary based on internal devices installed
- *Other features:*
 - Headphone jack and push-button sound controls located on front
 - Remote-control sensor

Key features

- Features the RISC-based PowerPC 603 processor, which provides unprecedented power for your Power Macintosh computer.
- Offers impressive multimedia capabilities in a flexible modular design.
- Lets you easily expand the multimedia capabilities of your system to include MPEG playback or by connecting one of a variety of multimedia kits.  53
- Lets you add either an Ethernet card or a high-speed fax/data modem, through its communications slot.
- Includes an expansion bay for an optional TV tuner.
- Provides 16-bit, CD-quality sound-output capabilities.

Other Macintosh models to consider

If your tasks might require more power and flexibility, you should consider the Power Macintosh 7200/100, which offers:

- A faster processor (100-megahertz PowerPC 601).
- More expansion capabilities (three PCI slots).
- Built-in Ethernet networking capabilities.

Power Macintosh 7200/100 and 7200/120

★32



At a glance

- The Power Macintosh 7200/100 and 7200/120 combine power and flexibility with affordability, providing industry-leading price/performance value.
- Three PCI slots enable you to tailor the system to your needs, while the PowerPC 601 processor provides the power needed to boost your productivity.

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

- **Processor:** PowerPC 601 RISC with integrated math coprocessor and 32K on-chip cache; optional level 2 cache (256K)
- **Speed:** 100 or 120 megahertz
- **Memory:** 8MB or 16MB of RAM, expandable to 256MB
 - Four 168-pin DIMM slots
- **Storage:**
 - Internal Apple SuperDrive floppy disk drive
 - Internal 1.2GB hard disk drive
 - Internal quadruple-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, high-performance SCSI port, 16-bit stereo sound-input/output ports
- **Displays:** Built-in support for most Apple displays; supports resolutions of up to 1,280 by 1,024 pixels (with 4MB of VRAM)

- *Networking ports:* Built-in LocalTalk and Ethernet (10BASE-T and AAUI)
- *Dimensions (HWD):* 6.2 by 14.4 by 16.9 inches (15.7 by 36.6 by 42.9 cm)
- *Weight:* 22.0 lb. (9.9 kg)—will vary based on internal devices installed

Key features

- Features the RISC-based PowerPC 601 processor.
- Provides three PCI expansion slots, for flexibility in configuring the system to provide additional capabilities.
- Features an enclosure that makes it easy to service and upgrade the system.
- Includes built-in Ethernet (10BASE-T/AAUI), for faster data transfer over a network.
- Comes with 1MB of VRAM, expandable to 4MB.
- Supports 24 bits per pixel on 16-inch color monitors (with 2MB of VRAM).
- Supports 24 bits per pixel on 21-inch color monitors (with 4MB of VRAM).
- Supports 32-bit graphics data path (1MB of VRAM) or 64-bit graphics data path (2MB of VRAM).
- Is upgradable to the Power Macintosh 7600/120.
- Qualifies for the EPA Energy Star rating (U.S.A.) as an energy-efficient product.

Other Macintosh models to consider

If your tasks might require higher performance capacity, you should consider the Power Macintosh 7600/120, which offers:

- A faster processor (120 megahertz PowerPC 604, compared with the 100- or 120-megahertz PowerPC 601 processor for the Power Macintosh 7200 models).
- Easy processor upgradability—so you can move to a faster processor as needed.
- Video-input capability.
- More RAM expansion capability—up to 512MB.

Power Macintosh 7200/120 PC Compatible

★●34



At a glance

- The Power Macintosh 7200/120 PC Compatible is the most compatible Power Macintosh computer sold—right out of the box.
- In addition to its PowerPC processor, it includes a card containing a second processor—a Pentium processor running at 100 megahertz—so you can work in nearly any environment you choose: Mac OS, MS-DOS 6.22, Windows 3.1, Windows for Workgroups 3.11, or Windows 95, switching instantly between environments.

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

- **Processors:** PowerPC 601 RISC with integrated math coprocessor, 32K on-chip cache, and 256K level 2 memory cache; Pentium
- **Speed:** 120 megahertz for PowerPC processor; 100-megahertz Pentium processor
- **Memory:** 8MB of RAM, expandable to 256MB (Mac OS); 8MB, expandable to 72MB (Pentium)
 - Four 168-pin DIMM slots
- **Storage:**
 - Internal Apple SuperDrive floppy disk drive
 - Internal 1.2GB hard disk drive
 - Internal quadruple-speed CD-ROM drive
 - Supports one additional 3.5-inch storage device
- **Expansion capabilities:** Three PCI expansion slots (one is used by the PC Compatibility Card); supports six SCSI devices
- **Ports:** Two GeoPort serial ports, ADB port, monitor port, SCSI port, 16-bit stereo sound-input/output ports

- *Displays:* Built-in support for most Apple displays; supports displays of up to 21 inches (with 4MB of RAM); PC Compatibility Card includes 1MB of VRAM and supports accelerated SVGA video
- *Networking ports:* Built-in LocalTalk and Ethernet (10BASE-T/AAUI)
- *Dimensions (HWD):* 6.2 by 14.4 by 16.9 inches (15.7 by 36.6 by 42.9 cm)
- *Weight:* 22 lb. (9.9 kg)—will vary based on internal devices installed

Key features

- Features the RISC-based PowerPC 601 processor.
- Comes with a Pentium processor, for hardware-level compatibility with MS-DOS 6.22 (included), Windows 3.1, Windows for Workgroups 3.11, and Windows 95.
- Provides three PCI expansion slots, for flexibility in configuring the system to provide additional capabilities (one is occupied by the PC Compatibility Card).
- Includes built-in Ethernet (10BASE-T/AAUI), for faster data transfer over a network, and supports ODI and NDIS networking.
- Comes with 1MB of VRAM, expandable to 4MB (Mac OS), and 1MB of VRAM on the PC Compatibility Card to support accelerated SVGA video (DOS and Windows environments).
- Provides 16-bit CD-quality sound-input/output capabilities, and includes support for Sound Blaster 16 playback.

Other Macintosh models to consider

If you want more power now, and the ability to upgrade your processor in the future, you should consider the Power Macintosh 7600/120, which features a 120-MHz PowerPC 604 processor and is designed for easy processor upgrades. Like all PCI-equipped Macintosh computers, this system can accommodate either of the PC Compatibility Cards.

Power Macintosh 7600/120



★36

At a glance

- The Power Macintosh 7600/120 is a flexible, expandable computer that offers high performance now and can be easily upgraded in the future.
- The RISC-based PowerPC 604 processor running at 120 megahertz gives this computer the power you need to get your work done—no matter what you need to accomplish.

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

- **Processor:** PowerPC 604 RISC with integrated math coprocessor and 32K on-chip cache; 256K level 2 memory cache
- **Speed:** 120 megahertz
- **Memory:** 16MB of RAM, expandable to 512MB
 - Eight 168-pin DIMM slots
- **Storage:**
 - Internal Apple SuperDrive floppy disk drive
 - Internal 1.2GB Fast SCSI hard disk drive
 - Internal quadruple-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 resolutions of up to 1,280 by 1,024 pixels (with 4MB of VRAM)

- *Networking ports:* Built-in LocalTalk and Ethernet (10BASE-T and AAUI)
- *Dimensions (HWD):* 6.2 by 14.4 by 16.9 inches (15.7 by 36.6 by 42.9 cm)
- *Weight:* 22.0 lb. (9.9 kg)—will vary based on internal devices installed

Key features

- Features the RISC-based PowerPC 604 processor.
- Allows for easy processor upgrades as faster processors become available.
- Provides three PCI expansion slots, for flexibility in configuring the system to provide additional capabilities.
- Features an enclosure that makes it easy to service and upgrade the system.
- Offers built-in Fast SCSI for faster data transfer.
- Includes two built-in Ethernet ports (10BASE-T and AAUI), for faster data transfer over a network.
- Comes with 2MB of VRAM, expandable to 4MB.
- Supports 24-bit color at up to 1,152- by 870-pixel resolution.
- Supports 64-bit graphics data path.
- Provides built-in digital video-input capabilities.

Other Macintosh models to consider

If your tasks might require higher performance and larger storage capacity, you should consider the Power Macintosh 8500/132, which offers:

- A faster processor (132-megahertz PowerPC 604 compared with a 120-megahertz PowerPC 604 for the Power Macintosh 7600/120).
- Video-out capability.

Power Macintosh 8500/132 and 8500/150

★38



At a glance

- The Power Macintosh 8500/132 and 8500/150 are powerful, feature-rich systems that enable you to integrate media easily.
- The RISC-based PowerPC 604 processor running at 132 or 150 megahertz gives these computers the power they need to perform complex tasks rapidly.
- The Power Macintosh 8500/132 and 8500/150 include features such as digital video input/output and communications capabilities that make them ideal for media authoring or content creation.

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

- **Processor:** PowerPC 604 RISC with integrated math coprocessor and 32K on-chip cache; 256K level 2 cache
- **Speed:** 132 or 150 megahertz
- **Memory:** 16MB of RAM, expandable to 512MB
 - Eight 168-pin DIMM slots
- **Storage:**
 - Internal Apple SuperDrive floppy disk drive
 - Internal 1.2GB or 2GB Fast SCSI hard disk drive
 - Internal quadruple-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, 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 resolutions of up to 1,280 by 1,024 pixels
- *Networking ports:* Built-in LocalTalk and Ethernet (10BASE-T and AAUI-15)
- *Dimensions (HWD):* 14.2 by 7.7 by 15.8 inches (36.3 by 19.6 by 40.1 cm)
- *Weight:* 25.0 lb. (11.3 kg)—will vary based on internal devices installed

Key features

- Features the RISC-based PowerPC 604 processor, which provides unprecedented power for your Power Macintosh computer.
- Allows for easy processor upgrades as faster processors become available.
- Features three PCI expansion slots, for flexibility in configuring the system to provide additional capabilities.
- 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, expandable to 4MB.
- Supports 24-bit color at up to 1,280- by 1,024-pixel resolution.
- Supports 64-bit graphics data path.
- Provides built-in digital video-input/output capabilities.

Other Macintosh models to consider

For even greater flexibility, you should consider the Power Macintosh 9500/150, which offers:

- Twice the flexibility—six PCI expansion slots, as opposed to three for the Power Macintosh 8500/132 or 8500/150.
- Up to 768MB of DRAM expansion.

Power Macintosh 9500/150

★40



At a glance

- The Power Macintosh 9500/150 is the most flexible, expandable, high-performance desktop computer from Apple.
- The RISC-based PowerPC 604 processor running at 150 megahertz is exceptionally suited to computation-intensive tasks such as media authoring, publishing, software development, and a variety of technical uses.
- The outstanding performance of this computer brings new capabilities—such as real-time manipulation of complex three-dimensional images—to the desktop.

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

- **Processor:** PowerPC 604 RISC with integrated math coprocessor and 32K on-chip cache; 512K level 2 cache
- **Speed:** 150 megahertz
- **Memory:** 16MB or 32MB of RAM, expandable to 768MB
 - Twelve 168-pin DIMM slots
- **Storage:**
 - Internal Apple SuperDrive floppy disk drive
 - Internal 2GB Fast SCSI hard disk drive
 - Internal quadruple-speed CD-ROM drive
 - Supports two additional 3.5-inch storage devices
- **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

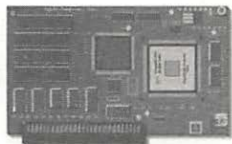
- *Displays:* Support for most Apple displays via included PCI graphics card (most configurations); supports resolutions of up to 1,280 by 1,024 pixels
- *Networking ports:* Built-in LocalTalk and Ethernet (10BASE-T and AAUI-15)
- *Dimensions (HWD):* 16.9 by 7.7 by 15.8 inches (42.9 by 19.6 by 40.1 cm)
- *Weight:* 28.0 lb. (12.6 kg)—will vary based on internal devices installed

Key features

- Features the RISC-based PowerPC 604 processor, which provides unprecedented power for your Power Macintosh computer.
- Allows for easy processor upgrades as faster processors become available.
- Features six PCI expansion slots, for outstanding flexibility in configuring the system to provide additional capabilities.
- Offers built-in, high-performance SCSI for faster data transfer.
- Has two built-in Ethernet ports (10BASE-T and AAUI-15), for faster data transfer over a network.
- Included PCI graphics card (most configurations) supports 24 bits per pixel on 20-inch color monitors.

Desktop System Upgrades

★●42




Upgrades for PowerPC performance

A number of products are available for current Macintosh owners who want to move up to the speed and power of Power Macintosh computers without sacrificing their previous investments. Currently, upgrades are available for the following models:

- Macintosh LC 475, 520, 550, 575, and 630
- Macintosh Quadra 605, 610, 630, 650, 660Av, 700, 800, 840Av, 900, and 950
- Macintosh Centris 610, 650, and 660Av
- Macintosh IIfx and IIfx
- Macintosh Performa 470 series, 550, 560, 570 series, 600, and 630 series
- Workgroup Servers 60, 80, and 95

Most of these upgrade options are now available through third parties. Apple currently offers the following product:

- *Macintosh Processor Upgrade*. This upgrade, appropriate for select Macintosh Quadra, Macintosh LC, and Macintosh Performa computers, must be installed by an authorized Apple reseller or service provider. It allows your computer to run applications optimized for the performance capabilities of the PowerPC processor up to six times faster than standard applications for Macintosh.

For specific information on the upgrades appropriate for a particular system, see your Apple reseller.  166

★● Apple PC Compatibility Cards

These user-installable cards turn your Power Macintosh or Macintosh Performa computer with a PCI slot into one of the

most flexible, versatile systems imaginable. There are two versions: a 7-inch card that features a 586 100-megahertz processor with 128K level 2 cache, and a 12-inch card that features a Pentium 100-megahertz processor with a 256K level 2 cache. Both cards come with MS-DOS 6.22 and are compatible with Windows 3.1, Windows for Workgroups 3.11, and Windows 95, so you can move seamlessly—with a single keystroke—between applications written for the Mac OS and applications for these environments. The PC Compatibility Cards feature support for accelerated SVGA video and Sound Blaster 16-compatible multimedia and entertainment applications, and networking support for Novell NetWare SPXRPX, TCP/IP, and NETBEUI protocols.

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.

Power Macintosh Logic Board and Processor Card Upgrades

Logic board upgrades are now available to upgrade the Power Macintosh 7200 series to the Power Macintosh 7600, and the Macintosh Quadra 800 and 840AV, and Power Macintosh 8100, to the Power Macintosh 8500. These logic boards feature processor upgradability, so you can choose the precise level of performance you need by selecting the Macintosh Processor Card Upgrade that best meets your current requirements. In addition, if the processor in your Macintosh resides on a removable card, you can upgrade that card to one that features a higher-speed processor, if one is available. Processor card upgrades currently feature a PowerPC 604 running at either 120 or 132 megahertz.

Desktop System Accessories

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General Macintosh accessories

- Macintosh 4MB and 8MB Memory Expansion Kits

Macintosh LC 580; Macintosh Performa 5200CD, 5300CD series, 6200CD series, and 6300CD; and Power Macintosh 5200/75 LC and 6200/75

- Apple Video System
- Apple TV/Video System (except Macintosh LC 580 and Macintosh Performa 580)
- Apple Presentation System
- Ethernet cards (Ethernet CS Thin Coax Card, Apple Ethernet CS Twisted-Pair Card, and Ethernet CS AAUI Card)
- External Video Connector (Macintosh LC 580 and Macintosh Performa 580 only)

Power Macintosh 7200/100, 7200/120, 7500/100, 7600/120, 8500/132, and 8500/150


- VRAM Upgrade Kit for Power Macintosh computers with PCI expansion slots

GeoPort Telecom Adapter Kit

The GeoPort Telecom Adapter Kit takes advantage of Apple's GeoPort architecture and the Macintosh Telephony Architecture to turn your Power Macintosh (or Macintosh Quadra 660AV or 840AV) into an intelligent telephone, digital answering machine, fax, and high-speed modem. It consists of the following components:

- GeoPort Telecom Adapter
- Apple Telecom 2.1 software

- MegaPhone software from Cypress Research, Inc.
- SITcomm software from Aladdin Systems, Inc.

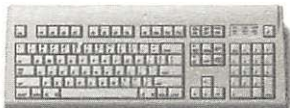
Note: Additional desktop accessories can be found in the Multimedia section.  50

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



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

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



Multimedia Products

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The Apple Multimedia Advantage

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Apple is the industry leader in multimedia

Apple has long been considered a leading multimedia personal computer vendor, starting with its first Macintosh, which incorporated sound and graphics capabilities. And the company continues to lead the new media industry with an impressive array of advanced platform technologies, tools, and support programs.

Whether you're using computers at home, at school, or in your business, Apple brings you more advanced multimedia by setting the standard for ease of use, cost-effective software, sophisticated and powerful hardware, ground-breaking system software technology, and easy access to the Internet.

Given the Macintosh computer's integrated hardware and system software support for multimedia, it's not surprising that a study by Dataquest named Apple the leading worldwide multimedia personal computer vendor. According to *Electronic Buyers' News* (a consumer electronics trade publication), 70 percent of the 50 top-selling CD-ROM titles were authored on a Macintosh computer. And the 1995 *Multimedia Directory* reports that 74 percent of multimedia developers prefer Macintosh computers as a platform for multimedia creation and authoring.

The Mac OS includes advanced multimedia 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 following technologies:

- *QuickDraw 3D*. QuickDraw 3D integrates three-dimensional graphics technology into the Mac OS to let users create, manipulate, and incorporate 3D images into their documents and presentations as easily as they do two-dimensional graphics today.
- *QuickTime*. QuickTime is Apple's system-level approach to multimedia. It is a complete architecture and API that controls all types of time-based media, including high-quality, full-motion video, and high-fidelity sound. The current version of QuickTime includes advanced image compression capabilities and supports industry standards such as JPEG, MPEG, and MIDI.
- *QuickTime VR*. QuickTime VR (VR stands for virtual reality) is Apple's standard for highly realistic photographic or rendered representations of a scene. It supports two kinds of user experiences: a panoramic technology that enables users to explore 360-degree scenes, and an interaction technology that allows them to pick up and interact with objects. It is the first mainstream technology to enable immersion experiences based on real-world scenes. QuickTime VR is designed to run on Macintosh, Power Macintosh, and even Windows software-based PCs.
- *PlainTalk*. PlainTalk is Apple's speech recognition technology, which allows for easy access to information and customization of information. It includes English speech recognition, as well as English and Spanish text-to-speech capabilities.

Apple tools and technologies were designed with multimedia in mind

If you are creating multimedia projects, the PowerPC processor, coupled 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, and distributing the results via CD-ROM or the Internet.

AppleCD 600i AppleCD 600e



At a glance

•50

- The AppleCD 600e is an external quadruple-speed CD-ROM player that gives you fast access to the content on CD-ROM discs.
- It allows you to access QuickTime movies, Kodak Photo CD images, and the wide range of information stored on CD-ROM discs.
- The AppleCD 600i is the version that can be installed inside some Macintosh computers and Workgroup Servers.

Specifications

- *Data transfer rate:* 600 kilobytes per second; 256K cache buffer
- *Average data access time:* 167.5 milliseconds
- *Ports:* Two 50-pin SCSI connectors, two RCA jacks, headphone jack
- *Dimensions (HWD):* 2.3 by 6.2 by 12.7 inches (5.9 by 15.8 by 32.3 cm); AppleCD 600i—1.7 by 5.8 by 8.3 inches (4.3 by 14.8 by 21.0 cm)
- *Weight:* 5.7 lb. (2.6 kg); AppleCD 600i—2.1 lb. (.95 kg)

Key features

- Offers quadruple-speed (up to 684.4 kilobytes per second in mode 2) streaming data transfer rate.
- Provides a loading tray—just like an audio CD player.
- Provides full compatibility with any SCSI-equipped personal computer, including Macintosh (running System 7.1 or later) and Power Macintosh systems, Windows software-based computers, and UNIX workstations.
- Supports all major CD-ROM formats—including audio CDs and multisession Kodak Photo CDs.

AppleDesign Powered Speakers



At a glance

- The AppleDesign Powered Speakers were specifically engineered to provide high-quality sound for computer use.
- They let you take advantage of CD-quality output from multimedia and audio compact discs.

Specifications

- *Amplifier:* Built-in dual channel
- *Ports:* Computer sound-input jack (stereo), CD sound-input jack (stereo); front-panel headphone jack
- *Dimensions (HWD):* 9.25 by 4.5 by 4.75 inches (23.5 by 11.4 by 12.1 cm)
- *Weight:* 4.8 lb. (2.2 kg)—pair
- *Other features:*
 - Tuned-port bass-reflex system for low-frequency response
 - Active equalization for best frequency response at all levels
 - Noise-reduction circuitry for audio clarity

Key features

- Can connect directly to any personal computer, CD player, cassette player, or television.
- Feature a dual-input mixer for mixing computer and audio sound tracks.
- Provide controlled sound dispersion so you can enjoy excellent sound quality while maintaining a private listening environment.
- Incorporate magnetic shielding, so you can use them near displays without distorting image quality.
- Provide convenient power, volume, and balance controls and a front headphone jack.

AppleDesign Powered Speakers II



At a glance

• The extremely compact AppleDesign Powered Speakers II were designed to provide high-quality sound output from a personal computer—or a home stereo system.

Specifications

- *Amplifier:* Built-in dual channel
- *Ports:* Computer sound-input jack (stereo), CD sound-input jack (stereo); front-panel headphone jack
- *Dimensions (HWD):* 6.9 by 4.2 by 4.0 inches (17.5 by 10.7 by 10.1 cm)
- *Weight:* 2.7 lb. (1.2 kg)—pair
- *Other features:*
 - Tuned-port bass-reflex system for low-frequency response
 - Active equalization for best frequency response at all levels
 - Noise-reduction circuitry for audio clarity

Key features

- Can connect directly to any personal computer, as well as to a CD player, cassette player, or television, with a simple cable (included).
- Feature a dual-input mixer for mixing computer and audio sound tracks.
- Provide controlled sound dispersion, so you can enjoy excellent sound quality while maintaining a private listening environment.
- Incorporate magnetic shielding, so you can use them near displays without distorting image quality.
- Provide convenient volume controls and a front headphone jack.

Video Kits and Multimedia Software

Macintosh Multimedia Kits

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

- *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, camcorder, laserdisc player, or other video source to your computer with a single cable.
- *Apple TV/Video System.* This kit gives your computer the capabilities of the Apple Video System and more—it also allows you to watch television programs in a window on your Macintosh, and work on documents simultaneously. The Apple TV/Video System comes with a video card, TV tuner card, remote control, and software.
- *Apple Presentation System.* This kit makes it easy for you to create a presentation on your Macintosh, then display it to an audience on a large television screen exactly as it appears on your Macintosh display. Or connect your Macintosh to a VCR and record your presentation on videotape for easy and inexpensive distribution. The Apple Presentation System comes with software, cables, and video converter box.

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, ensuring 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

★ **The Apple QuickTime Conferencing Kit**

Apple QuickTime Conferencing is a videoconferencing and collaboration solution designed as the foundation for a broad range of Apple and third-party conferencing solutions. It is a system software extension that allows users of Macintosh computers to work easily with colleagues or customers no matter what their location. Designed to support open standards for interoperability, it's transport-, compression-, and media device-independent. The Apple QuickTime Conferencing Kit is a product that builds on this technology to supply a complete solution for desktop videoconferencing. It consists of three main components:

- The QuickTime Conferencing system software extension, which installs with a single click
- The QuickTime Conferencing Camera 100, a high-resolution color camera
- Apple Media Conference, an easy-to-use videoconferencing and collaboration application that lets you share on-screen documents and images captured by the camera as you videoconference

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 on 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.

Apple Media Tool

The Apple Media Tool 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.)

- *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 Macintosh 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.

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 were designed to fit the specific life-style and usage patterns of a mobile computer user. 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, many 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, by adding a wired or wireless modem and an additional hard disk drive or magneto-optical drive. In addition, all PowerBook computers comply with the Environmental Protection Agency's Energy Star guidelines for energy conservation.
- PowerBook computers currently come in three series: the PowerBook 100 series, the PowerBook 2000 series, and the PowerBook 5000 series. Each offers a unique set of capabilities, allowing PowerBook computers to meet a range of needs.

PowerBook 100 series

The PowerBook 190/66 and 190cs/66, the newest members of the PowerBook 100 series, are affordable yet highly capable notebook computers that can be upgraded all the way to the advanced capabilities of the PowerBook 5300c/100. They're excellent systems for

users in homes and schools, because they offer innovation at an affordable price. Like the PowerBook 5300 computers, they feature PC Card slots and an expansion bay for flexibility. Although they offer many upgrade options, the PowerBook 190/66 and 190cs/66 provide a complete solution right out of the box. Like all current PowerBook computers, they include the PowerBook Mobility Bundle, a combination of communications, power-management, security, compatibility, and entertainment software designed to enhance mobile computing, as well as ClarisWorks integrated software.

The PowerBook 2000 series

For users who value exceptionally small size and light weight in a portable computer, the PowerBook Duo 2300c/100 is an excellent choice. It's the first computer in our PowerBook 2000 series, providing PowerPC performance and a range of features in a product that weighs less than 5 pounds. PowerBook Duo 2300c/100 users don't have to compromise power or ease of use to benefit from the convenient design of a subnotebook computer, because it offers exceptional performance through its 100-megahertz PowerPC 603e processor. A powerful mobile system on its own, the PowerBook Duo 2300c/100 can also be used with a variety of docking products from Apple and third-party vendors for incredible flexibility.

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The PowerBook 5000 series

The Macintosh PowerBook 5300 computers, the first in Apple's next-generation PowerBook 5000 series, unite the performance of the RISC-based PowerPC 603e processor with a number of advanced features, including PC Card slots that can accommodate two Type I or II PC Cards or one Type III PC Card, as well as an expansion bay for third-party devices such as a magneto-optical drive. Because communications are so vital to mobile computer users, the PowerBook 5300 computers feature infrared (IR) connectivity for easy file sharing, as well as a LocalTalk port. Their PC Card slots also make it easy to add a wired or wireless modem or Ethernet networking capabilities.

Macintosh PowerBook 190/66



At a glance

- The Macintosh PowerBook 190/66 is Apple's most affordable PowerBook model based on the 68LC040 processor.
- Already a powerful, capable computer, it is designed to let you upgrade features as your needs change.

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

- *Processor:* 68LC040
- *Speed:* 66/33 megahertz
- *Memory:* 4MB or 8MB of RAM, expandable to 36MB or 40MB—4MB or 8MB on the logic board and one memory expansion slot
- *Storage:*
 - Apple SuperDrive floppy disk drive (removable)
 - Internal 500MB hard disk drive
- *Expansion capabilities:* Memory expansion slot; PC Card slots for two Type I or Type II PC Cards or one Type III PC Card; expansion bay for third-party solutions
- *Ports:* Serial port, ADB port, video-output port (optional), power adapter port, SCSI port
- *Display:* 9.5-inch (diagonal) backlit passive-matrix display (16-level gray scale)
- *Battery:* Nickel-metal-hydride; average life: 3 to 5 hours; power adapter included
- *Sound:* Output port (stereo); integrated microphone and speaker
- *Networking:* Built-in LocalTalk port; optional infrared technology supports AppleTalk protocol; Ethernet networking through PC Cards

- *Dimensions (HWD)*: 2.0 by 11.5 by 8.5 inches (5.1 by 29.2 by 21.6 cm)
- *Weight*: 6.0 lb. (2.7 kg)
- *Security*: Security slot for locking (requires third-party cable; secures battery and expansion bay); password security software
- *Other features*:
 - Full-size keyboard with function keys, palm rest, and improved Apple trackpad
 - Preinstalled software: ClarisWorks, the PowerBook Mobility Bundle (includes Apple Remote Access), and Internet access software

Key features

- Features the Motorola 68LC040 processor.
- Has a 9.5-inch passive-matrix display (16 levels of gray).
- Lets you add Ethernet networking, a wired or wireless modem, storage, or other capabilities through PC Cards.
- Includes an expansion bay for third-party solutions such as an additional hard disk, a magneto-optical storage device, an internal AC adapter, or other devices.
- Features 16-bit, CD-quality stereo sound output.
- Offers an improved Apple trackpad that lets you use the trackpad to select, open, close, and drag without using the trackpad button.
- Incorporates a full-size keyboard with function keys.
- Comes with ClarisWorks integrated productivity software and the PowerBook Mobility Bundle—preinstalled communications, power-management, security, compatibility, and entertainment software that makes mobile computing even easier.
- Can be upgraded to take advantage of PowerPC processor technology, active-matrix display technology (requires PowerPC upgrade), infrared technology, and 8-bit video-out capabilities.
- Qualifies for the EPA Energy Star rating (U.S.A.).

Other PowerBook models to consider

- The PowerBook 190cs/66 comes with a larger, color display.
- The PowerBook 5300/100 provides the high performance of PowerPC technology at an affordable price.

Macintosh PowerBook 190cs/66



At a glance

- The Macintosh PowerBook 190cs/66 is Apple's most affordable color PowerBook.
- Already a powerful, capable computer, it is designed to let you upgrade features as your needs change.

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

- *Processor:* 68LC040
- *Speed:* 66/33 megahertz
- *Memory:* 4MB or 8MB of RAM, expandable to 36MB or 40MB—4MB or 8MB on logic board and one memory expansion slot
- *Storage:*
 - Apple SuperDrive floppy disk drive (removable)
 - Internal 500MB hard disk drive
- *Expansion capabilities:* Memory expansion slot; PC Card slots for two Type I or Type II PC Cards or one Type III PC Card; expansion bay for third-party solutions
- *Ports:* Serial port, ADB port, video-output port (optional), power adapter port, SCSI port
- *Display:* 10.4-inch (diagonal) backlit dual-scan color display (256 colors)
- *Battery:* Nickel-metal-hydride; average life: 2.5 to 4.5 hours; power adapter included
- *Sound:* Output port (stereo); integrated microphone and speaker
- *Networking:* Built-in LocalTalk port; optional infrared technology supports AppleTalk protocol; Ethernet networking through PC Cards

- *Dimensions (HWD)*: 2.2 by 11.5 by 8.5 inches (5.6 by 29.2 by 21.6 cm)
- *Weight*: 6.3 lb. (2.9 kg)
- *Security*: Security slot for locking (requires third-party cable; secures battery and expansion bay); password security software
- *Other features*:
 - Full-size keyboard with function keys, palm rest, and improved Apple trackpad
 - Preinstalled software: ClarisWorks, the PowerBook Mobility Bundle (includes Apple Remote Access), and Internet access software

Key features

- Features the high-performance Motorola 68LC040 processor.
- Has a built-in, 10.4-inch backlit dual-scan display that supports 256 colors.
- Lets you add Ethernet networking, a wired or wireless modem, storage, or other capabilities through PC Cards.
- Includes an expansion bay for third-party solutions such as an additional hard disk, a magneto-optical storage device, an internal AC adapter, or other devices.
- Features 16-bit, CD-quality stereo sound output.
- Offers an improved Apple trackpad that lets you use the trackpad to select, open, close, and drag without using the trackpad button.
- Incorporates a full-size keyboard with function keys.
- Comes with ClarisWorks integrated productivity software and the PowerBook Mobility Bundle—preinstalled communications, power-management, security, compatibility, and entertainment software that makes mobile computing even easier.
- Can be upgraded to take advantage of PowerPC processor technology, active-matrix display technology (requires PowerPC upgrade), infrared technology, and 8-bit video-out capabilities.
- Qualifies for the EPA Energy Star rating (U.S.A.).

Other PowerBook models to consider

- The PowerBook 5300cs/100 provides the high performance of PowerPC technology in an affordable color system.

Macintosh PowerBook Duo 2300c/100



At a glance

- The Macintosh PowerBook Duo 2300c/100 is Apple's smallest, lightest PowerBook computer, providing the performance of the RISC-based PowerPC processor in a sleek, compact system that weighs less than 5 pounds.
- Its large, active-matrix display shows up to thousands of colors.

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

- **Processor:** PowerPC 603e with integrated math coprocessor, 16K data cache, and 16K instruction cache
- **Speed:** 100 megahertz
- **Memory:** 8MB or 20MB of RAM, expandable to 56MB—8MB on the logic board and one memory expansion slot
- **Storage:**
 - Optional external Apple SuperDrive floppy disk drive
 - Internal 750MB or 1.1GB hard disk drive
- **Expansion capabilities:** Two slots—one for optional modem, one for RAM
- **Ports:** Serial port, docking connector, power adapter port, modem port; integrated microphone and speakers
- **Display:** 9.5-inch (diagonal) backlit active-matrix color display with two display modes:
 - 256 colors at 640- by 480-pixel resolution
 - Thousands of colors at 640- by 400-pixel resolution
- **File-transfer options:**
 - LocalTalk cables or serial cable and System 7 file sharing
 - Fax/data modem (optional) and Apple Remote Access software
 - External floppy disk drive (optional)

- *Battery:* High-capacity Type III nickel-metal-hydride; average life: 2 to 4 hours; power adapter included
- *Networking:* Built-in LocalTalk port
- *Dimensions (HWD):* 1.5 by 10.9 by 8.5 inches (3.8 by 27.7 by 21.6 cm)
- *Weight:* 4.8 lb. (2.2 kg)
- *Other features:*
 - Large keyboard, palm rest, and improved Apple trackpad
 - PowerBook Mobility Bundle (includes Apple Remote Access) and Internet access software

Key features

- Features the PowerPC 603e processor, which enables the PowerBook Duo 2300c/100 to handle even the most complex tasks easily, as well as to run Insignia Solutions' SoftWindows software for MS-DOS 6.2 and Windows 3.1 compatibility.
- Features a sleek design that's small and lightweight—just 4.8 pounds.
- Has a built-in, 9.5-inch backlit active-matrix display that supports up to thousands of colors.
- Offers an improved Apple trackpad that lets you use the trackpad to select, open, close, and drag without using the trackpad button.
- Is compatible with all Apple docking products and PowerBook Duo accessories (including memory expansion kit, modem, and batteries), as well as with third-party docking products, for a variety of expansion solutions.
- Comes with the PowerBook Mobility Bundle—preinstalled communications, power-management, security, compatibility, and entertainment software that makes mobile computing even easier.
- Qualifies for the EPA Energy Star rating (U.S.A.).

Other PowerBook models to consider

- The PowerBook 5300c/100 is a high-performance notebook computer that offers a larger active-matrix color display.
- The PowerBook 5300ce/117 features a 117-megahertz PowerPC 603e processor, a 10.4-inch active-matrix color SVGA display, and a 1.1GB hard disk drive.

Macintosh PowerBook 5300/100



At a glance

- The Macintosh PowerBook 5300/100 provides the high performance of PowerPC technology at the most affordable price.
- It's ideal for mainstream productivity applications such as word processing, spreadsheets, and communications software.

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

- **Processor:** PowerPC 603e with integrated math coprocessor, 16K data cache, and 16K instruction cache
- **Speed:** 100 megahertz
- **Memory:** 8MB of RAM, expandable to 64MB
 - 8MB on the logic board and one memory expansion slot
- **Storage:**
 - Apple SuperDrive floppy disk drive (removable)
 - Internal 500MB hard disk drive
- **Expansion capabilities:** Memory expansion slot; PC Card slots for two Type I or Type II PC Cards or one Type III PC Card; expansion bay for third-party solutions
- **Ports:** Serial port, ADB port, power adapter port, SCSI port, video-output port
- **Display:** 9.5-inch (diagonal) backlit passive-matrix display (16-level gray scale)
- **Battery:** Nickel-metal-hydride; average life: 3 to 5 hours; power adapter included
- **Sound:** 16-bit audio line input port (stereo), 16-bit sound-output port (stereo); integrated microphone and speaker
- **Networking:** Built-in LocalTalk port; built-in infrared technology supports AppleTalk protocol; Ethernet networking through PC Cards

- *Dimensions (HWD)*: 2.0 by 11.5 by 8.5 inches (5.1 by 29.2 by 21.6 cm)
- *Weight*: 6.1 lb. (2.8 kg); 5.7 lb. (2.6 kg) using PC Card storage tray (included)
- *Security*: Security slot for locking battery and expansion bay (requires third-party cable); password security software
- *Other features*:
 - Full-size keyboard with function keys, palm rest, and Apple trackpad
 - PowerBook Mobility Bundle (includes Apple Remote Access) and Internet access software

Key features

- Features the PowerPC 603e processor, which enables the PowerBook 5300/100 to handle even the most complex tasks easily, as well as to run Insignia Solutions' SoftWindows software for MS-DOS 6.2 and Windows 3.1 compatibility.
- Has a built-in, 9.5-inch backlit passive-matrix display that supports 16 levels of gray.
- Lets you add Ethernet networking, a wired or wireless modem, storage, or other capabilities through PC Cards.
- Includes an expansion bay for third-party solutions such as an additional hard disk, a magneto-optical storage device, an internal AC adapter, or other devices.
- Includes infrared technology and Apple IR File Exchange software for easy, wireless file sharing.
- Provides 8-bit color video-out capability, upgradable to greater bit depth (requires third-party product).
- Features 16-bit, CD-quality stereo sound.
- Comes with the PowerBook Mobility Bundle—preinstalled communications, power-management, security, compatibility, and entertainment software that makes mobile computing even easier.
- Qualifies for the EPA Energy Star rating (U.S.A.).

Other PowerBook models to consider

- The PowerBook 5300cs/100 provides the high performance of PowerPC technology in an affordable color system.

Macintosh PowerBook 5300cs/100



At a glance

- The Macintosh PowerBook 5300cs/100 provides the high performance of PowerPC technology in a color system.
- It's a versatile system, suitable for everything from word processing to desktop publishing.

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

- **Processor:** PowerPC 603e with integrated math coprocessor, 16K data cache, and 16K instruction cache
- **Speed:** 100 megahertz
- **Memory:** 8MB or 16MB of RAM, expandable to 64MB—8MB or 16MB on the logic board and one RAM expansion slot
- **Storage:**
 - Apple SuperDrive floppy disk drive (removable)
 - Internal 500MB or 750MB hard disk drive
- **Expansion capabilities:** Memory expansion slot; PC Card slots for two Type I or Type II PC Cards or one Type III PC Card; expansion bay for third-party solutions
- **Ports:** Serial port, ADB port, power adapter port, SCSI port, video-output port
- **Display:** 10.4-inch (diagonal) backlit dual-scan color display (256 colors)
- **Battery:** Nickel-metal-hydride; average life: 2.5 to 4.5 hours; power adapter included
- **Sound:** 16-bit audio line input port (stereo), 16-bit sound-output port (stereo); integrated microphone and speaker
- **Networking:** Built-in LocalTalk port; built-in infrared technology supports AppleTalk protocol; Ethernet networking through PC Cards

- *Dimensions (HWD)*: 2.2 by 11.5 by 8.5 inches (5.6 by 29.2 by 21.6 cm)
- *Weight*: 6.4 lb. (2.9 kg); 6.0 lb. (2.7 kg) using PC Card storage tray (included)
- *Security*: Security slot for locking battery and expansion bay (requires third-party cable); password security software
- *Other features*:
 - Full-size keyboard with function keys, palm rest, and Apple trackpad
 - PowerBook Mobility Bundle (includes Apple Remote Access) and Internet access software

Key features

- Features the PowerPC 603e processor, which enables the PowerBook 5300cs/100 to handle even the most complex tasks easily, as well as to run Insignia Solutions' SoftWindows software for MS-DOS 6.2 and Windows 3.1 compatibility.
- Has a built-in, 10.4-inch backlit dual-scan color display that supports 256 colors.
- Lets you add Ethernet networking, a wired or wireless modem, storage, or other capabilities through PC Cards.
- Includes an expansion bay for third-party solutions such as an additional hard disk, a magneto-optical storage device, an internal AC adapter, or other devices.
- Includes infrared technology and Apple IR File Exchange software for easy, wireless file sharing.
- Provides 8-bit color video-out capability, upgradable to greater bit depth (requires third-party product).
- Features 16-bit, CD-quality stereo sound.
- Comes with the PowerBook Mobility Bundle—preinstalled communications, power-management, security, compatibility, and entertainment software that makes mobile computing even easier.
- Qualifies for the EPA Energy Star rating (U.S.A.).

Other PowerBook models to consider

- The PowerBook 5300c/100 provides the high performance of PowerPC technology with an active-matrix color display.

Macintosh PowerBook 5300c/100



At a glance

- The Macintosh PowerBook 5300c/100 provides PowerPC technology and the highest-quality color display.
- An advanced color display makes the PowerBook 5300c/100 ideal for working with graphics or presentations.

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

- **Processor:** PowerPC 603e with integrated math coprocessor, 16K data cache, and 16K instruction cache
- **Speed:** 100 megahertz
- **Memory:** 8MB or 16MB of RAM, expandable to 64MB—8MB or 16MB on the logic board and one RAM expansion slot
- **Storage:**
 - Apple SuperDrive floppy disk drive (removable)
 - Internal 500MB or 750MB hard disk drive
- **Expansion capabilities:** Memory expansion slot; PC Card slots for two Type I or Type II PC Cards or one Type III PC Card; expansion bay for third-party solutions
- **Ports:** Serial port, ADB port, power adapter port, SCSI port, video-output port
- **Display:** 10.4-inch (diagonal) backlit active-matrix color display (256 or thousands of colors, depending on configuration)
- **Battery:** Nickel-metal-hydride; average life: 2.5 to 4.5 hours; power adapter included
- **Sound:** 16-bit audio line input port (stereo), 16-bit sound-output port (stereo); integrated microphone and speaker
- **Networking:** Built-in LocalTalk port; built-in infrared technology supports AppleTalk protocol; Ethernet networking through PC Cards

- *Dimensions (HWD)*: 2.2 by 11.5 by 8.5 inches (5.6 by 29.2 by 21.6 cm)
- *Weight*: 6.4 lb. (2.9 kg); 6.0 lb. (2.7 kg) using PC Card storage tray (included)
- *Security*: Security slot for locking battery and expansion bay (requires third-party cable); password security software
- *Other features*:
 - Full-size keyboard with function keys, palm rest, and Apple trackpad
 - PowerBook Mobility Bundle (includes Apple Remote Access) and Internet access software

Key features

- Features the PowerPC 603e processor, which enables the PowerBook 5300c/100 to handle even the most complex tasks easily, as well as to run Insignia Solutions' SoftWindows software for MS-DOS 6.2 and Windows 3.1 compatibility.
- Has a built-in, 10.4-inch active-matrix display. (Available in two configurations: one with 512K of video RAM, for 256 colors; the other with 1MB of video RAM, for thousands of colors.)
- Lets you add Ethernet networking, a wired or wireless modem, storage, or other capabilities through PC Cards.
- Includes an expansion bay for third-party solutions such as an additional hard disk, a magneto-optical storage device, an internal AC adapter, or other devices.
- Includes infrared technology and Apple IR File Exchange software for easy, wireless file sharing.
- Provides 8-bit color video-out capability, upgradable to greater bit depth (requires third-party product).
- Features 16-bit, CD-quality stereo sound.
- Comes with the PowerBook Mobility Bundle—preinstalled communications, power-management, security, compatibility, and entertainment software that makes mobile computing even easier.
- Qualifies for the EPA Energy Star rating (U.S.A.).

Other PowerBook models to consider

- The PowerBook 5300ce/117 provides PowerPC technology in the ultimate PowerBook computer.

Macintosh PowerBook 5300ce/117



At a glance

- The Macintosh PowerBook 5300ce/117 provides the high performance of PowerPC technology in the highest-quality, highest-resolution color PowerBook.
- It features a 117-megahertz PowerPC 603e processor, 32MB of RAM, and a large-capacity, 1.1GB hard disk drive, offering outstanding performance—equal to or surpassing that of many desktop systems.
- It's the ultimate PowerBook for power users.

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

- **Processor:** PowerPC 603e with integrated math coprocessor, 16K data cache, and 16K instruction cache
- **Speed:** 117 megahertz
- **Memory:** 32MB of RAM, expandable to 64MB
 - 16MB on the logic board and one memory expansion slot
- **Storage:**
 - Apple SuperDrive floppy disk drive (removable)
 - Internal 1.1GB hard disk drive
- **Expansion capabilities:** Memory expansion slot; PC Card slots for two Type I or Type II PC Cards or one Type III PC Card; expansion bay for third-party solutions
- **Ports:** Serial port, ADB port, power adapter port, SCSI port, video-output port
- **Display:** 10.4-inch (diagonal) active-matrix color SVGA display (thousands of colors); 800- by 600-pixel resolution
- **Battery:** Nickel-metal-hydride; average life: 2.5 to 4.5 hours; power adapter included

- *Sound*: 16-bit audio line input port (stereo), 16-bit sound-output port (stereo); integrated microphone and speaker
- *Networking*: Built-in LocalTalk port; built-in infrared technology supports AppleTalk protocol; Ethernet networking through PC Cards
- *Dimensions (HWD)*: 2.2 by 11.5 by 8.5 inches (5.6 by 29.2 by 21.6 cm)
- *Weight*: 6.4 lb. (2.9 kg); 6.0 lb. (2.7 kg) using PC Card storage tray (included)
- *Security*: Security slot for locking battery and expansion bay (requires third-party cable); password security software
- *Other features*:
 - Full-size keyboard with function keys, palm rest, and Apple trackpad
 - PowerBook Mobility Bundle (includes Apple Remote Access) and Internet access software

Key features

- Features the PowerPC 603e processor, which enables the PowerBook 5300ce/117 to handle even the most complex tasks easily, as well as to run Insignia Solutions' SoftWindows software for MS-DOS 6.2 and Windows 3.1 compatibility.
- Has a built-in, 10.4-inch active-matrix color SVGA display that supports thousands of colors.
- Lets you add Ethernet networking, a wired or wireless modem, storage, or other capabilities through PC Cards.
- Includes an expansion bay for third-party solutions such as an additional hard disk, a magneto-optical storage device, an internal AC adapter, or other devices.
- Includes infrared technology and Apple IR File Exchange software for easy, wireless file sharing.
- Provides 8-bit color video-out capability, upgradable to greater bit depth (requires third-party product).
- Features 16-bit, CD-quality stereo sound.
- Comes with the PowerBook Mobility Bundle—preinstalled communications, power-management, security, compatibility, and entertainment software that makes mobile computing even easier.
- Qualifies for the EPA Energy Star rating (U.S.A.).

PowerBook Duo Docking Products

PowerBook Duo Dock Plus

• The PowerBook Duo Dock Plus provides easy-to-use expansion capabilities for PowerBook Duo computers.



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- Inserting your PowerBook Duo notebook computer into the PowerBook Duo Dock Plus gives you access to a complete Macintosh desktop system.
- The PowerBook Duo Dock Plus physically supports external displays weighing up to 85 pounds—including the Apple Multiple Scan 20 Display.
- The dock is compatible with all PowerBook Duo computers.
- PowerLatch docking technology provides:
 - Easy connection between the PowerBook Duo computer and the dock; there are no cables to hook up.
 - Automatic insert and eject, which makes inserting a PowerBook Duo computer into a PowerBook Duo Dock Plus as easy as inserting a videotape into a VCR.
 - Manual eject if power is out.
 - Data protection. You can't accidentally lose your work-in-progress by ejecting your PowerBook Duo while it is docked.

Specifications

- *Storage:*
 - Internal Apple SuperDrive floppy disk drive
 - Bay for 3.5-inch hard disk drive
- *Expansion capabilities:* Two NuBus slots; supports six SCSI devices

- *Ports:* Two serial ports, ADB port, SCSI port, video-output port, pass-through port for modem, sound-input port (mono), sound-output port (mono)
- *Video support:* Comes with 1MB of video RAM, providing built-in support for up to 32,768 colors on the Apple Multiple Scan 1705 Display, and up to 256 colors on the Apple Multiple Scan 20 Display; supports some third-party VGA and SVGA displays
- *Networking ports:* Built-in LocalTalk; Ethernet
- *Dimensions (HWD):* 5.1 by 12.5 by 16.3 inches (13.0 by 31.8 by 41.4 cm)
- *Weight:* 13.5 lb. (6.1 kg)

PowerBook Duo Floppy Adapter

- The PowerBook Duo Floppy Adapter gives you access to an external floppy disk drive with any PowerBook Duo.
- Its ADB port lets you connect a mouse or an extended keyboard.
- Its security slot helps ensure that the system cannot be removed from your work space.
- It can be used in conjunction with the Macintosh HDI-20 External 1.4MB Floppy Disk Drive.



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Specifications

- *Ports:* External floppy disk drive port; ADB port
- *Dimensions (HWD):* 1.5 by 5.0 by 2.6 inches (3.8 by 12.7 by 6.6 cm)
- *Weight:* 0.3 lb. (0.14 kg)

Macintosh HDI-20 External 1.4MB Floppy Disk Drive

- This external Apple SuperDrive floppy disk drive enables you to use floppy disks with your PowerBook Duo computer. Connects to the computer through the PowerBook Duo Floppy Adapter.

Specifications

- *Dimensions (HWD):* 1.1 by 4.5 by 7.0 inches (2.8 by 11.4 by 17.8 cm)
- *Weight:* 1.44 lb. (0.65 kg)

Portable System Upgrades

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Upgrades for PowerPC performance

Several products are available for current Macintosh PowerBook owners who want to move up to the speed and power of PowerPC processor technology without sacrificing their previous investments. Currently, upgrades are available for the following models:

- Macintosh PowerBook 190/66 and 190cs/66
- Macintosh PowerBook Duo 210, 230, 250, 270c, 280, and 280c (all previous PowerBook Duo systems)
- Macintosh PowerBook 520, 520c, 540, and 540c

There are three different upgrades: two Macintosh PowerBook Logic Board Upgrade Kits, and the Macintosh PowerBook Processor Card Upgrade Kit.

- *Macintosh PowerBook Logic Board Upgrade Kits.* Logic board upgrades are available for both the PowerBook 190 computers and the PowerBook Duo 200 series computers. They let your computer run applications optimized for the performance capabilities of the PowerPC processor up to six times faster than standard applications for Macintosh. The upgrades include a 100-megahertz PowerPC 603e processor, 8 megabytes of RAM and 4 megabytes of ROM, and installation of Macintosh system software version 7.5.2 on the computer's hard disk.

- *Macintosh PowerBook Processor Card Upgrade Kit.* This upgrade replaces the 68LC040 processor card in current PowerBook 500 series models. With the upgrade installed, customers with these computers will receive the same high-performance PowerPC 603e processor found in the PowerBook 5300 computers, as well as the same features as the logic board upgrade (RAM, ROM, and system software).

No matter which upgrade is appropriate for you, you can be assured that your system will still be able to use existing accessories such as power adapters, batteries, and modems—and, in the case of the PowerBook Duo systems, docking products. Along with hardware compatibility, you'll also enjoy new levels of software compatibility: The high performance of the PowerPC processor will enable you to run not only your existing applications for Macintosh, but also applications optimized for Power Macintosh, and, with Insignia Solutions' SoftWindows software, even applications for MS-DOS 6.2 and Windows 3.1.

Installation of either upgrade must be performed by an authorized Apple reseller. Your upgraded computer will retain your existing display, hard disk drive, and RAM.

Additional PowerBook upgrades

Several other upgrades are available for the PowerBook 190 computers, allowing them to provide the capabilities of the feature-rich PowerBook 5300 systems.

- Macintosh PowerBook Infrared Upgrade Kit
- Macintosh PowerBook 8-bit Color Video-out Upgrade Kit
- Macintosh PowerBook 10.4-inch Active-Matrix Color Display Upgrade Kit (for PowerBook 190 computers, requires PowerPC upgrade; also compatible with the PowerBook 5300/100 and 5300cs/100)

Portable Computer Accessories

Macintosh PowerBook computers (all models)

- Apple HDI-30 SCSI System Cable
- Apple HDI-30 SCSI Disk Adapter

Macintosh PowerBook 190 and 5300 computers

- Macintosh PowerBook Power Adapter
- Macintosh PowerBook 8MB RAM Expansion Card
- Macintosh PowerBook Nickel-Metal-Hydride Battery

PowerBook Duo accessories

- PowerBook Duo Dock Plus
- PowerBook Duo Floppy Adapter
- Macintosh HDI-20 External 1.4MB Floppy Disk Drive
- PowerBook Duo Express Modem
- PowerBook Duo Rechargeable Battery
- PowerBook Duo Battery Recharger
- PowerBook Duo AC Adapter

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 services such as AppleLink, as well as wireless connection to office networks via Apple Remote Access and gateways to networks such as ISDN and VideoText.

Servers & Networking Products

The Apple Server Advantage

Why buy a server from Apple?

Since every Macintosh computer comes with built-in file sharing, you might wonder why anyone would buy a dedicated server from Apple. The answer can be summed up simply: enhanced productivity and performance.

Certainly you could take any Macintosh system, turn on file sharing, and designate it as a server. Or you could install the appropriate version of AppleShare file- and print-server software. Then, if the performance was not at the level you wanted, you could start upgrading the processor, the memory, the hard disk drives, the backup tape drive, the network ports, the software. . .

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You'll get better results with an Apple Workgroup Server or Network Server. They're 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*.

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 capabilities. Yet despite their powerful nature, they are exceptionally easy to set up and administer. And they offer a range of performance options to meet your needs—from the easy-to-use, Mac OS-based Workgroup Server 7250/120 and 8550/132 to the powerful new AIX-based Network Server 500/132 and 700/150, the first servers from Apple built from the ground up as servers, engineered to provide the ultimate in performance and

* Support details may vary by region.

reliability. 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. And to further enhance user productivity and streamline administration, Workgroup Servers from Apple come with a wealth of value-added software solutions.

★ **The Workgroup Server 7250/120 and 8550/132**

These new servers represent an evolution of Apple's Mac OS-based Workgroup Server line. They feature faster RISC-based PowerPC processors than earlier models, and run a native version of AppleShare software, which offers significant performance increases over previous versions. In addition, these servers are equipped with larger hard disk drives and PCI expansion slots, rather than the NuBus architecture used in previous servers from Apple. PCI offers three main advantages: higher performance (up to three times faster), more solutions, and lower cost. Like their predecessors, the Workgroup Server 7250/120 and 8550/132 are also available in a configuration that includes all of the software needed to publish your information on the World Wide Web.

81★

★ **The Network Server 500/132 and 700/150 from Apple**

The Apple Network Server 500/132 and 700/150 are the flagships of Apple's line of servers. Where previous servers were built on the foundation of Apple's powerful desktop computer systems, these products were designed from the ground up as servers—created specifically to meet the needs of MIS managers and network administrators. Built to customer specifications, the Network Servers offer superior reliability, compatibility, performance/scalability, serviceability, and system expansion. The Network Server 500/132 and 700/150 feature a unique enclosure design that offers easy access to key server components for system upgrades and component replacements. They run IBM's AIX operating system, and are ideal for commercial publishing applications, as well as for any organization that wants a powerful, reliable, easy-to-administer UNIX server.

Workgroup Server 7250/120



At a glance

- The Workgroup Server 7250/120 is a versatile midrange server system based on the PowerPC 601 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.
- With its three PCI expansion slots, the Workgroup Server 7250/120 can be easily customized by adding any of a wide variety of cards.

★82

Specifications

- *Processor:* PowerPC 601 RISC with integrated math coprocessor and 32K on-chip cache; 256K level 2 cache
- *Speed:* 120 megahertz
- *Memory:* 16MB of RAM, expandable to 256MB
 - Four 168-pin DIMM slots
- *Storage:*
 - Internal Apple SuperDrive floppy disk drive
 - Internal 1.2GB hard disk drive
 - Space for one additional hard disk drive
 - Internal quadruple-speed CD-ROM drive
- *Expansion capabilities:* Three PCI slots; SCSI DMA bus supports up to three internal and four external SCSI devices
- *Ports:* Two serial ports (both can be used with Apple's GeoPort Telecom Adapter), ADB port, video-output port, high-performance SCSI port, stereo sound-input/output ports
- *Displays:* Built-in support for all Apple displays
- *Networking ports:* Built-in LocalTalk and Ethernet
- *Dimensions (HWD):* 14.3 by 8.9 by 16.0 inches (36.3 by 22.6 by 40.6 cm)


- *Weight:* 25.3 lb. (11.4 kg)—will vary based on internal devices installed

Key features

- Features the RISC-based PowerPC 601 processor, which enables it to handle computation-intensive tasks with exceptional speed.
- Has built-in Ethernet capability.
- Features three PCI expansion slots, for flexibility in configuring the server to provide additional capabilities.
- Offers built-in high-performance SCSI for faster data transfer.
- Comes with Mac OS system software version 7.5.3, which includes Open Transport version 1.1, Apple's enhanced communications standard.
- Includes Apple RAID Software, for increased data protection and performance.
- Comes with AppleShare 4.2.1, a high-performance "native" PowerPC server application, installed on the hard disk drive (selected configurations).
- Includes third-party software for administration, reliability, productivity, and performance: Server Manager from Santorini (AppleShare configurations only), FileWave from Wave Research, netOctopus from Datawatch, Adobe Acrobat Reader, Apple RAID Software, Virex from Datawatch, AppleShare Client for Windows, 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.

83★

Other models to consider

- If you need an exceptionally powerful, reliable workgroup server, you should consider the Workgroup Server 8550/132, Apple's highest-performance server based on the easy-to-use Mac OS and available in a configuration that includes a DAT drive.
- The Workgroup Server 7250/120 is also available in a configuration that comes with all the software needed to make your information accessible on the World Wide Web.  90

Workgroup Server 8550/132



At a glance

- The Workgroup Server 8550/132 is Apple's fastest and most expandable server based on the Mac OS.
- It offers the extensive file and print, database, Internet, and applications server capabilities needed by large workgroups with high performance requirements.
- It features the advanced PowerPC 604 processor, on a CPU card that can be easily replaced as more powerful processors become available.

★84

Specifications

- *Processor:* PowerPC 604 RISC with integrated math coprocessor and 32K on-chip cache; 512K level 2 cache
- *Speed:* 132 megahertz
- *Memory:* 16MB or 24MB of RAM, expandable to 512MB
 - Eight 168-pin DIMM slots
- *Storage:*
 - Internal Apple SuperDrive floppy disk drive
 - One 2GB Fast SCSI hard disk drive
 - Bracket and cable for a second internal drive
 - Internal quadruple-speed CD-ROM drive
 - Internal digital-audio tape (DAT) drive (some configurations)
- *Expansion capabilities:* Three PCI slots; dual SCSI DMA buses support up to eight SCSI devices
- *Ports:* Two serial ports (both can be used with Apple's GeoPort Telecom Adapter), ADB port, video-output port, high-performance dual SCSI DMA ports, stereo sound-input/output ports
- *Displays:* Built-in support for all Apple displays
- *Networking ports:* Built-in LocalTalk and Ethernet

- *Dimensions (HWD)*: 18.6 by 8.9 by 20.6 inches (47.3 by 19.6 by 52.3 cm)
- *Weight*: 36.8 lb. (16.7 kg)—will vary based on internal devices installed

Key features

- Features the RISC-based PowerPC 604 processor, which enables it to handle computation-intensive tasks with exceptional speed; designed for easy processor upgrades.
- Has built-in Ethernet capability.
- Features three PCI expansion slots, for flexibility in configuring the server to provide additional capabilities.
- Offers built-in high-performance dual SCSI DMA buses for faster data transfer.
- Comes with Mac OS system software version 7.5.3, which includes Open Transport version 1.1, Apple's enhanced communications standard.
- Includes Apple RAID Software, for increased data protection and performance.
- Comes with AppleShare 4.2.1, a high-performance "native" PowerPC server application, installed on the hard disk drive (selected configurations).
- Includes third-party software for administration, reliability, productivity, and performance: Server Manager from Santorini (AppleShare configurations only), FileWave from Wave Research, netOctopus from Datawatch, Adobe Acrobat Reader, Apple RAID Software, Virex from Datawatch, AppleShare Client for Windows, 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.

85★

Other models to consider

- If you need even higher performance and reliability, in a server designed for easy upgradability, serviceability, and system expansion, you should consider one of the new AIX-based Network Servers from Apple: the Network Server 500/132 or 700/150.

Network Server

500/132



At a glance

- The Network Server 500/132 is Apple's most affordable high-end server, designed to the specifications of network administrators.
- It offers the high performance, compatibility, reliability, and data security needed by organizations with extensive networks and high server demand.
- It runs IBM's industry-standard AIX operating system, and features the advanced PowerPC 604 processor on a CPU card that can be easily replaced as more powerful processors become available.

★86

Specifications

- *Processor:* PowerPC 604 RISC with integrated math coprocessor and 32K on-chip cache; 512K level 2 cache
- *Speed:* 132 megahertz
- *Memory:* 32MB of parity RAM, expandable to 512MB
 - Eight 168-pin DIMM slots
- *Storage:*
 - Internal Apple SuperDrive floppy disk drive
 - 2GB hard disk drive
 - Space for six internal hard disk drives, for up to 24GB of storage
 - Up to 256GB of hard disk capacity using external disk arrays and subsystems
 - Internal quadruple-speed CD-ROM drive
- *Expansion capabilities:* Six PCI slots
- *Ports:* Two serial ports (both can be used with Apple's GeoPort Telecom Adapter), ADB port, VGA video-output port, two Fast/Wide SCSI channels, stereo sound-input/output ports
- *Displays:* Built-in support for all Apple displays

- *Networking ports:* Built-in Ethernet AUI connector
- *Dimensions (HWD):* 24.5 by 16.5 by 18.0 inches (62.2 by 41.9 by 45.7 cm)
- *Weight:* 84.0–92.1 lb. (31.4–34.6 kg)—will vary based on internal devices installed

Key features

- Features an innovative industrial design that lets you upgrade or service the major components of the server—including the logic board—easily, in less than 60 seconds, simply by opening the back of the unit.
- Features the RISC-based PowerPC 604 processor, which enables it to handle computation-intensive tasks with exceptional speed, and is designed for easy processor upgrades.
- Has built-in Ethernet capability.
- Features six PCI expansion slots, for flexibility in configuring the server to provide additional capabilities.
- Designed for maximum security, with key-controlled access to all components.
- Runs the AIX operating system for great cross-platform capability and compatibility with thousands of existing UNIX applications.

87★

Other models to consider

- If you need even higher performance and greater expandability, you should consider the Network Server 700/150, which features a faster processor (150 megahertz versus 132 megahertz) with a larger level 2 memory cache (1MB versus 512K), a larger-capacity hard disk drive with even more space available for additional storage devices, and a larger power supply that supports redundant, hot-swappable power supplies.

Network Server 700/150



At a glance

- The Network Server 700/150 is Apple's most powerful and expandable high-end server, designed to the specifications of network administrators.
- It offers the high performance, compatibility, reliability, and data security needed by organizations with extensive networks and high server demand, such as commercial publishers.
- It runs IBM's industry-standard AIX operating system, and features the advanced PowerPC 604 processor on a CPU card that can be easily replaced as more powerful processors become available.

★88

Specifications

- *Processor:* PowerPC 604 RISC with integrated math coprocessor and 32K on-chip cache; 1MB level 2 cache
- *Speed:* 150 megahertz
- *Memory:* 32MB or 48MB of RAM, expandable to 512MB
 - Eight 168-pin DIMM slots
- *Storage:*
 - Internal Apple SuperDrive floppy disk drive
 - 4GB hard disk drive
 - Space for eight internal hard disk drives, for up to 32GB of storage
 - Up to 256GB of hard disk capacity using external disk arrays and subsystems
 - Internal quadruple-speed CD-ROM drive
 - Internal DAT drive (selected configurations)
- *Expansion capabilities:* Six PCI slots

- *Ports:* Two serial ports (both can be used with Apple's GeoPort Telecom Adapter), ADB port, VGA video-output port, two Fast/Wide SCSI channels, stereo sound-input/output ports
- *Displays:* Built-in support for all Apple displays
- *Networking ports:* Ethernet AUI connector
- *Dimensions (HWD):* 24.5 by 16.5 by 18.0 inches (62.2 by 41.9 by 45.7 cm)
- *Weight:* 84.0–92.1 lb. (31.4–34.6 kg)—will vary based on internal devices installed

Key features

- Is the highest-performance, most expandable server available from Apple.
- Features an innovative industrial design that lets you upgrade or service the major components of the server—including the logic board—easily, in less than 60 seconds, simply by opening the back of the unit.
- Features the RISC-based PowerPC 604 processor, which enables it to handle computation-intensive tasks with exceptional speed, and is designed for easy processor upgrades.
- Has built-in Ethernet capability.
- Features six PCI expansion slots, for flexibility in configuring the server to provide additional capabilities.
- Designed for maximum security, with key-controlled access to all components.
- Uses dual hot-swappable fans; redundant, hot-swappable power supplies are optional.
- Runs the AIX operating system for great cross-platform capability and compatibility with thousands of existing UNIX applications.



The Apple Internet Server Solution for the World Wide Web


At a glance

- The Apple Internet Server Solution is the easiest and most affordable way to make your information available on the World Wide Web (WWW).
- It consists of a Workgroup Server (7250/120 or 8550/132) 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.

★90

Specifications

- *Processor:* PowerPC 601 or 604 RISC with integrated math coprocessor
- *Speed:* 120 or 132 megahertz
- *Memory:* 16MB or 24MB of RAM, expandable to 128MB or 512MB
 - Varies by Workgroup Server model  82–85
- *Storage:*
 - Internal Apple SuperDrive floppy disk drive
 - Hard disk drive support varies by model  82–85
 - Internal quadruple-speed CD-ROM drive
- *Expansion capabilities:* Three PCI slots
- *Ports:* Two serial ports, ADB port, video-out port, one or two SCSI ports, stereo sound-input/output ports
- *Displays:* Built-in support for all Apple displays; supports third-party VGA, SVGA, and 19-inch monitors


- *Networking ports:* Built-in LocalTalk and Ethernet; supports TCP/IP protocols
- *Dimensions (HWD) and Weight:* Vary by model and are based on the internal devices installed  82–85

Key features

- Offers a choice of two Workgroup Servers, to precisely accommodate your budget concerns and performance needs.
- Features the RISC-based PowerPC processor (601 or 604), which enables it to handle computation-intensive tasks with exceptional speed.
- Includes all of the software tools you need to publish on the Web:
 - WebSTAR from StarNine
 - PageMill from Adobe (WYSIWYG HTML editing software)
 - MacDNS from Apple
 - NetCloak from Maxum Development
 - ServerStat from Kitchen Sink Software
 - RealAudio from Progressive Networks
 - HyperCard database software
 - Netscape client software from Netscape Communications (single-user version)
 - BBEdit from Bare Bones Software (HTML editing software)
 - Adobe Acrobat Pro
 - AppleSearch 1.5 and AppleSearch CGI
 - Claris FileMaker Pro database software (runtime version)
 - Clickable maps CGI
 - Electronic mail CGI
 - EveryWare Butler SQL database software (runtime version)
 - ACI US 4D database software (runtime version)
 - Sample WWW pages
 - Apple RAID and AppleShare Client for Windows
- Installs with a single mouse-click.
- Comes with templates to get you started creating interactive WWW pages quickly and easily—in less than 20 minutes.
- Lets you add servers as you increase capacity or to distribute the processing load for enhanced performance.

Apple Networking Products

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.
- *Expanding the capacity of your AppleTalk network.* 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 upgrade your Macintosh computers to a faster network while maintaining LocalTalk network connectivity.  100

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).

Ethernet networks

Built-in Ethernet connectivity is provided through an Apple Ethernet port in the Macintosh Centris 650, most Macintosh Quadra computers, all Power Macintosh computers and Workgroup 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 LC Thin Coax Connection.* This comes with an Apple Ethernet LC Card and a Thin Coax Transceiver in one convenient package 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 a Thin Coax Ethernet network.
- *Apple Ethernet NB Twisted-Pair Card.* This card allows you to connect any Macintosh II or Macintosh Centris 610 computer to IEEE 802.3 10BASE-T Ethernet networks. It has a built-in RJ-45 connector, which allows you to connect directly to an industry-standard 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.
- *Apple PCI Ethernet 100BASE-TX Card.* This card connects any Macintosh computer or Workgroup Server with a PCI slot, such as the Power Macintosh 8500/132 or the Workgroup Server 8550/132, to a high-speed IEEE 802.3u 100BASE-TX Ethernet network. The card comes equipped with an RJ-45 connector and a 3-meter length of Category 5 twisted-pair cable for direct connection into a 100-megabit hub.
- *Apple PCI Ethernet 100VG-AnyLAN Card.* This card connects any Macintosh computer or Workgroup Server with a PCI slot, such as the Power Macintosh 8550/132 or the Workgroup Server 8550/132, to a high-speed IEEE 802.12 100VG-AnyLAN Ethernet network. The card comes equipped with an RJ-45 connector and a 3-meter length of Category 3 twisted-pair cable for direct connection into your 100VG hub.
- *Apple PCMCIA Ethernet Twisted-Pair Card*.* This card allows any PowerBook computer equipped with a PC Card slot, such as the PowerBook 190 and 5300 series models, to connect to an IEEE 802.3 10BASE-T Ethernet network. A cable with an RJ-45 connector is supplied for direct connection to your hub or wall plate.
- *Apple PCMCIA Ethernet Thin Coax Card.** This card allows any PowerBook computer equipped with a PC Card slot to connect to an IEEE 802.3 10BASE-2 Ethernet network. A cable with a Thin Coax connector is supplied for connection into your Thin Coax network.

* This is a Type II PC Card and requires Card Services software to function.

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 Token Ring 4/16 NB Card.* This card connects any Macintosh computer with a full-size NuBus slot to an IEEE 802.5 Token Ring network at either 4 or 16 megabits per second, and is the ideal card for implementing gateway solutions.
- *Apple Token Ring NB/c Card.* This compact card connects any Macintosh computer with NuBus slots to an IEEE 802.5 Token Ring network at either 4 or 16 megabits per second.
- *Apple PCI Token Ring Card.* This compact card connects any Macintosh computer, Workgroup Server, or Power Macintosh computer equipped with a PCI slot (such as the Power Macintosh 8500/132 or 9500/150) to a 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.
- *Apple PCMCIA Token Ring Card*.* This card allows any PowerBook computer equipped with a PC Card slot to connect to an IEEE 802.5 Token Ring network. A cable with Type 3 interface (RJ-45 connector) is supplied for connection to any Token Ring network at either 4 or 16 megabits per second.

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.

* This is a Type II PC Card and requires Card Services software to function.

★ **StyleWriter EtherTalk Adapter**

The StyleWriter EtherTalk Adapter is a simple, compact device that lets you connect your Apple ink-jet printer directly to an EtherTalk local area network (LAN). It's the ideal way to share a single printer among multiple computers on an EtherTalk network. With both 10BASE-T and 10BASE-2 connectors built in, it supports all Apple Macintosh, Power Macintosh, and PowerBook computers, Apple EtherTalk networks, and Apple ink-jet printers, including the StyleWriter 1200, Color StyleWriter 1500, Color StyleWriter 2200, and Color StyleWriter 2500, as well as the Color StyleWriter 2400.* And the StyleWriter EtherTalk Adapter features easy-to-read LEDs that display your network connection status for easy troubleshooting.

* Requires printer driver version 1.6.1 or later.

Network Services Software

Apple RAID

Apple RAID Software version 1.0.1 provides RAID (Redundant Array of Independent Disks) technology to Apple's PowerPC processor-based Workgroup Servers, allowing them to offer better data reliability and greater performance. It supports two of the six primary levels of currently defined RAID technology: Levels 1 and 0, disk mirroring and striping, respectively.

- *Apple RAID Level 1: Mirroring.* Mirroring is a data-reliability technology that involves the simultaneous writing of data to two disks. If either disk fails, users can access data from the surviving disk. Mirroring is particularly useful for situations in which downtime resulting from a disk failure is not acceptable.

- *Apple RAID Level 0: Striping.* Striping enables the server to store successive units of data across multiple hard disks. This allows a collection of smaller disks to store larger amounts of data. The data is stored in parallel on several disks, which can potentially yield increased performance for applications that are optimized to take advantage of this feature.

AppleShare

AppleShare software provides a range of file-, print-, and application-sharing capabilities to users of Mac OS-based and Windows software-based computers connected to an AppleTalk network. It enhances users' ability to work together on cross-platform networks by enabling them to work in the operating system environment with which they are most familiar—whether it's the Mac OS or Windows 3.1. The software includes a number of features that enable network managers to control centralized applications, data files, and printers effectively. It provides a variety of security features—such as launch-count limits on applications, minimum

password length, password aging, automatic disconnect after a specified number of unsuccessful log-in attempts, and network administrator-controlled log-off capabilities. And it couples ease of use with a single, large block cache that provides increased performance for all users.

The current version of AppleShare—AppleShare 4.2.1—comes bundled with selected PowerPC processor-based Workgroup Servers. It offers significant performance enhancements over previous versions of AppleShare.

Printers, Displays, & Imaging Products

The Apple Printer Advantage

Apple printers come complete

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

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 Macintosh to the back of the printer. And connecting a printer to a network is just as simple.

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 all Macintosh, Power Macintosh, and PowerBook computers. And some printers can even be used in mixed workgroup environments.

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.

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

Apple has developed seven 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.



- *ColorShare*. Like GrayShare, this technology allows you to share your color printer with other users on a network. It includes "scatter" or diffusion halftoning for better print quality.



- *ColorSync 2.0*. Apple's ColorSync software is a color-matching solution that works behind the scenes with Macintosh applications, making sure that colors are consistent across input, display, and output devices.



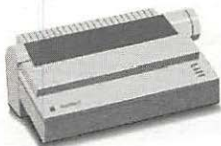
Apple printers are Energy Star compliant

All Apple printers qualify for the EPA Energy Star rating (U.S.A.) as energy-efficient products, making them more affordable to use.

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 that meets 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



At a glance

- 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.

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

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.

Accessories

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

StyleWriter 1200



At a glance

- The StyleWriter 1200 is an ink-jet printer that offers laser-quality printing at a very affordable price.
- It takes advantage of Apple's GrayShare software—which allows printer sharing and gray-scale printing for sharp printed graphics.
- Its compact design lets you use it in even the smallest of work spaces, such as a dorm room or a one-person office.

Specifications

- *Resolution:* 720 by 360 dots per inch with edge smoothing for black and white; 360 by 360 dots per inch for gray scale
- *Printing speed:* 3 pages per minute (black-and-white normal mode); 2 pages per minute (best mode)
- *Processor:* Uses the computer's processor
- *Memory:* 128K of RAM
- *Supported languages:* QuickDraw, QuickDraw GX
- *Fonts:* 64 scalable TrueType fonts
- *Paper tray size:* 100 sheets; automatically feeds up to 15 envelopes
- *Paper handling:* Supports U.S. letter, U.S. legal, A4, envelopes, labels, and transparencies
- *Connectivity and networking:* High-speed serial; GrayShare software allows printer sharing on LocalTalk, EtherTalk, and TokenTalk networks; optional adapter lets you connect the printer directly to an EtherTalk network
- *Dimensions (HWD):* 7.0 by 13.6 by 7.9 inches (17.8 by 34.5 by 20.1 cm)
- *Weight:* 6.6 lb. (3.0 kg)
- *Recommended number of users:* One; supports multiple users through GrayShare or an EtherTalk adapter

- *Other features:*
 - Energy Star compliant
 - Cable included
-

Key features

- Provides laser-quality printing in a compact design.
 - Can print on a variety of materials, including envelopes and transparencies.
 - Supports printing of two or four reduced-size pages on a single sheet.
 - Lets you easily print watermarks.
 - Takes advantage of GrayShare software, which allows printer sharing and gray-scale printing for sharp printed graphics.
 - Qualifies for the EPA Energy Star rating (U.S.A.) as an energy-efficient product.
-

Accessories

- StyleWriter EtherTalk Adapter  97

Color StyleWriter 1500



At a glance

- The Color StyleWriter 1500 is Apple's most affordable color ink-jet printer.
- It provides laser-quality black text and vibrant color printing.
- It's extremely easy to set up and use, and comes complete with everything you need to get started.

Specifications

- *Resolution:* 720 by 360 dots per inch with edge smoothing for text and line art; 360 by 360 dots per inch for color and gray scale
- *Printing speed:* 3 pages per minute (black and white); 0.33 page per minute (color and gray scale)
- *Processor:* Uses the computer's processor
- *Memory:* 62K input buffer
- *Supported languages:* QuickDraw, QuickDraw GX
- *Fonts:* 64 scalable TrueType fonts
- *Paper tray size:* Multipurpose tray holds up to 100 sheets of paper or 15 envelopes
- *Paper handling:* Supports U.S. letter, U.S. legal, A4, envelopes, labels, and transparencies
- *Connectivity and networking:* High-speed serial; ColorShare software allows printer sharing on LocalTalk, EtherTalk, and TokenTalk networks; optional adapter lets you connect the printer directly to an EtherTalk network
- *Dimensions (HWD):* 7.0 by 13.6 by 7.9 inches (17.8 by 34.5 by 20.1 cm)
- *Weight:* 5.4 lb. (2.4 kg)
- *Recommended number of users:* One; can support multiple users through ColorShare or an EtherTalk adapter

Key features

- Makes color printing easier and more affordable than ever before.
- Provides laser-quality black and vibrant color.
- Is a complete color printing solution; comes with all the necessary cables and ink cartridges.
- Has a compact design that fits easily into even small work spaces.
- 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.
- Can print on a variety of materials, including envelopes and transparencies.
- Supports printing of two or four reduced-size pages on a single sheet.
- Lets you easily print watermarks in the background of your documents.
- Supports desktop printing, so printing a document is as easy as dragging it onto an on-screen printer icon.
- Qualifies for the EPA Energy Star rating (U.S.A.)—reduces power consumption through an automatic power on/off feature.

Accessories

- StyleWriter EtherTalk Adapter  97

Color StyleWriter 2200



At a glance

- The Color StyleWriter 2200 is an innovative ink-jet printer that provides outstanding quality for both color and black-and-white printing.
- Although it offers the performance of a desktop printer, it weighs only 3 pounds and is designed to be truly portable, making it the perfect complement for any PowerBook computer.

Specifications

- *Resolution:* 720 by 360 dots per inch for black and white; 360 by 360 dots per inch for color and gray scale
- *Printing speed:* 5 pages per minute for black and white; 0.33 page per minute for color
- *Processor:* Uses the computer's processor
- *Memory:* 40K input buffer
- *Supported languages:* QuickDraw, QuickDraw GX
- *Fonts:* 64 scalable TrueType fonts
- *Paper tray size:* Multipurpose tray holds up to 30 sheets or 5 envelopes
- *Connectivity and networking:* Serial port; ColorShare software allows printer sharing on LocalTalk, EtherTalk, and TokenTalk networks; optional adapter lets you connect the printer directly to an EtherTalk network
- *Dimensions (HWD):* 2.2 by 11.8 by 6.2 inches (5.6 by 30.0 by 15.7 cm)
- *Weight:* 3.1 lb. (1.4 kg)
- *Recommended number of users:* One; can support multiple users through ColorShare or an EtherTalk adapter


- *Other features:*

- Energy Star compliant
- One color ink cartridge; separate black ink cartridge
- ColorSync 2.0 support
- Cable included

Key features

- Is designed for true portability: weighs only 3 pounds and fits in an average briefcase.
- Uses separate ink cartridges—one for color inks and one for black ink—so you can replace the black ink (which is most commonly used) without wasting remaining ink in the color tanks.
- 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.
- Supports printing of two or four reduced-size pages on a single sheet.
- Lets you easily print watermarks in the background of your documents.
- Has ColorShare software, so you can share your printer with others on a network.
- Supports desktop printing, so printing a document is as easy as dragging it onto an on-screen printer icon.
- Qualifies for the EPA Energy Star rating (U.S.A.) as an energy-efficient product.

Accessories

- Color StyleWriter 2200 Battery Attachment
- StyleWriter EtherTalk Adapter  97

Color StyleWriter 2500



At a glance

- The Color StyleWriter 2500 is Apple's highest-quality color ink-jet printer.
- It provides outstanding print quality for both black-and-white and color printing, combining the ability to print true black text with impressive color capabilities.
- Through seamless integration of Apple's print technologies (ColorSync, ColorShare, and desktop printing), it combines quality print results with versatility and ease of use.

Specifications

- *Resolution:* 720 by 360 dots per inch with optimized ink density (for optimal results on a variety of media)
- *Printing speed:* Up to 5 pages per minute (black and white); 0.66 page per minute (color)
- *Processor:* Uses the computer's processor
- *Memory:* 62K input buffer
- *Supported languages:* QuickDraw, QuickDraw GX
- *Fonts:* 64 scalable TrueType fonts
- *Paper tray size:* Multipurpose tray holds up to 100 sheets of paper or 15 envelopes
- *Paper handling:* Supports U.S. letter, U.S. legal, A4, Executive, envelopes (#10 and #6), labels, transparencies, and other specialty paper stocks
- *Connectivity and networking:* High-speed serial; ColorShare software allows printer sharing on LocalTalk, EtherTalk, and TokenTalk networks; optional kits allow you to connect the printer directly to a LocalTalk or EtherTalk network
- *Dimensions (HWD):* 8.3 by 14.4 by 9.2 inches (21.1 by 36.5 by 23.4 cm)

- *Weight:* 6.9 lb. (3.1 kg)
- *Recommended number of users:* One; can support multiple users through ColorShare or an EtherTalk adapter

Key features

- Provides outstanding resolution for both color and true black text (720 by 360 dpi).
- Features optimized ink density, so you get consistent high-quality results.
- Prints at a rapid 5 pages per minute for black and white.
- Uses a color ink cartridge that features separate ink tanks—one for color and one for black—so you can replace the black ink (which is most commonly used) without wasting remaining ink in the color tanks; uses fade- and water-resistant inks.
- Can combine color and true black printing on the same page.
- Has a compact design that fits easily into even small work spaces.
- 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.
- Can print on a variety of materials, including envelopes and transparencies.
- Supports printing of two or four reduced-size pages on a single sheet.
- Lets you easily print watermarks in the background of your documents.
- Supports desktop printing, so printing a document is as easy as dragging it onto an on-screen printer icon.
- Qualifies for the EPA Energy Star rating (U.S.A.)—reduces power consumption through an automatic power on/off feature.

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Accessories

- StyleWriter EtherTalk Adapter  97

Personal LaserWriter 300



At a glance

- The Personal LaserWriter 300 is Apple's most affordable laser printer.
- Its gray-scale capability enables the Personal LaserWriter 300 to offer sharp graphics printing.
- It's a compact, energy-efficient laser printer that's perfect for home use.

Specifications

- *Resolution:* 300 dots per inch
- *Printing speed:* 4 pages per minute
- *Processor:* Uses the computer's processor
- *Memory:* 512K of RAM (can operate as though it has 2MB of RAM)
- *Supported languages:* QuickDraw, QuickDraw GX
- *Fonts:* 39 scalable TrueType fonts
- *Paper tray size:* Multipurpose tray holds 100 sheets
- *Paper handling:* Manual feed supports straight-through paper path
- *Connectivity and networking:* High-speed serial; GrayShare software allows printer sharing on LocalTalk, EtherTalk, and TokenTalk networks
- *Dimensions (HWD):* 6.3 by 15.2 by 14.9 inches (16.0 by 38.6 by 37.9 cm)
- *Weight:* 15.0 lb. (6.8 kg)
- *Recommended number of users:* One to three
- *Other features:*
 - Energy Star compliant

Key features

- Most affordable, most compact Apple laser printer.
- Has a compact design and quiet operation, which makes it perfect for home use.
- Provides password-protected printer sharing and gray-scale printing through GrayShare printer driver software.
- Qualifies for the EPA Energy Star rating (U.S.A.) as an energy-efficient product.

Accessories

- Personal LaserWriter 300 Series Universal Cassette

LaserWriter 4/600 PS



At a glance

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

Specifications

- *Resolution:* 600 dots per inch
- *Printing speed:* 4 pages per minute
- *Processor:* 16-megahertz AMD 29200 RISC
- *Memory:* 2MB, expandable to 6MB with Adobe Memory Booster technology
- *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

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).
- Supports a 4MB RAM upgrade, which expands both the printer's memory cache and its ability to print documents that contain large numbers of downloadable fonts.
- 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.

Accessories

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

LaserWriter Select 360



At a glance

- The award-winning LaserWriter Select 360 is Apple's 600-dot-per-inch laser printer for small and medium-size workgroups that use Macintosh and Windows software-based computers.
- It's a high-speed printer for handling complicated jobs quickly.
- With an optional internal fax card that incorporates PostScript technology, it can work with your computer to send, receive, and print plain-paper faxes at up to 600-dot-per-inch resolution.

Specifications

- *Resolution:* 600 dots per inch
- *Printing speed:* 10 pages per minute
- *Processor:* 16-megahertz AMD 29200 RISC
- *Memory:* 7MB, expandable to 16MB
- *Supported languages:* Adobe PostScript Level 2, PCL 5; autoemulation switching between PostScript and PCL 5
- *Fonts:* 64 scalable TrueType and 35 PostScript fonts
- *Paper tray size:* Built-in 50- and 250-sheet trays (can hold envelopes); 250- or 500-sheet tray optional
- *Connectivity and networking:* Serial port; parallel port; LocalTalk port supports AppleTalk protocol; LaserWriter Bridge 2.0 software allows printer sharing on Ethernet and Token Ring networks
- *Dimensions (HWD):* 8.0 by 15.0 by 18.3 inches (20.3 by 38.1 by 46.5 cm)
- *Weight:* 26.0 lb. (11.7 kg)
- *Recommended number of users:* Two to six
- *Other features:*
 - Energy Star compliant

Key features

- Prints at 600-dot-per-inch resolution, providing exceptional print quality at your desk.
- Lets you use your printer as a plain-paper fax machine (requires optional fax card).
- Prints at 10 pages per minute, so you can print long documents quickly.
- Can connect to Ethernet networks through software (included).
- Fits easily into both Macintosh and Windows computing environments.
- Provides autoemulation switching between PostScript and PCL 5.
- Qualifies for the EPA Energy Star rating (U.S.A.) as an energy-efficient product.

Accessories

- LaserWriter Bridge software for Ethernet
- LaserWriter Select 500-Sheet Feeder with Letter Cassette
- LaserWriter Select 250-Sheet Legal Cassette
- LaserWriter Select 250-Sheet Feeder with Cassette (supports letter-size, A4, and B5 paper)
- LaserWriter Select 30-Envelope Cassette
- LaserWriter Select 360 PostScript Fax Card
- LaserWriter Select Multipurpose Tray

LaserWriter 16/600 PS



At a glance

- The Apple LaserWriter 16/600 PS is a high-performance laser printer with exceptional print quality, speed, network compatibility, and expansion options that cannot be matched by other printers in its price range.
- It provides built-in support for Ethernet networks for AppleTalk, TCP/IP, and Novell NetWare IPX protocols.
- It can be used in networks of Macintosh computers, networks of Windows software-based computers, or mixed workgroup environments that include both.
- With an optional internal fax card, users can send, receive, and print plain-paper faxes at up to 600-dot-per-inch resolution.

Specifications

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- *Resolution:* 600 dots per inch standard with FinePrint; PhotoGrade (requires minimum 12MB of RAM)
- *Printing speed:* 16 pages per minute (A4-size paper); 17 pages per minute (letter-size paper)
- *Processor:* 25-megahertz 29030 AMD RISC processor; 80C186 I/O processor
- *Memory:* 8MB, expandable to 32MB
- *Supported languages:* Adobe PostScript Level 2, PCL 5; autoemulation switching between PostScript and PCL 5
- *Fonts:* 64 scalable TrueType and 35 PostScript fonts
- *Paper tray size:* 250-sheet cassette and 100-sheet multipurpose tray (can hold envelopes); optional 500-sheet feeder and 75-envelope feeder

- *Connectivity and networking:* Ethernet port supports AppleTalk, TCP/IP, and Novell NetWare IPX protocols; LocalTalk port supports AppleTalk protocol; bidirectional parallel port; internal and external SCSI ports for adding hard disk storage
 - *Dimensions (HWD):* 12.1 by 16.7 by 16.9 inches (30.7 by 42.4 by 42.9 cm)
 - *Weight:* 40.0 lb. (18.0 kg)
 - *Recommended number of users:* Can accommodate workgroups of 10 or more
 - *Other features:*
 - Energy Star compliant
-

Key features

- 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.
 - Offers PhotoGrade upgrade for superior gray-scale image quality.
 - Offers an optional fax card that incorporates PostScript technology and lets you send faxes from your computer and receive faxes at your printer—at up to 600-dot-per-inch resolution.
 - Lets you add hard disk drives via SCSI ports to store a variety of fonts.
 - Provides autoemulation switching between PostScript and PCL 5.
 - Qualifies for the EPA Energy Star rating (U.S.A.) as an energy-efficient product.
-

Accessories

- LaserWriter 16/600 PS Fax Card (United States only)
- LaserWriter 16/600 PS Fax Kit (international)
- LaserWriter 16/600 PS Internal Hard Disk Drive
- LaserWriter 16/600 PS Envelope Feeder (75-envelope capacity)
- LaserWriter 500-Sheet Universal Cassette

Color LaserWriter 12/600 PS



At a glance

- The Apple Color LaserWriter 12/600 PS is a high-performance 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.

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:* 12MB, expandable to 40MB with Apple Contone Compression technology
- *Supported languages:* Adobe PostScript Level 2
- *Fonts:* 64 scalable TrueType and 39 scalable 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:*

- 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 12/600 PS 250-Sheet Feeder
- Color LaserWriter 12/600 PS Universal Cassette
- Color LaserWriter 12/600 PS Internal Hard Disk Drive
- Color LaserWriter Photoconductor Replacement Kit

The Apple Display and Image Capture Advantage

Displays

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 six displays for Macintosh computers—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.

Energy efficient

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

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, two-page layouts, or enlarged page layouts.

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. And three displays—the Apple Multiple Scan 1705, AppleVision 1710, and AppleVision 1710AV—are compatible with Windows 95 software.

Image Capture

Apple scanners

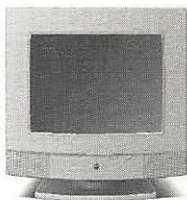
Combining high quality with extraordinary ease of use, the Apple Color OneScanner 600/27—the newest scanner from Apple—comes with OneScanner Dispatcher software, a powerful application that not only makes scanning a quick and easy process, but also lets you edit, print, fax, copy, OCR, archive, and retrieve images with Drag and Drop simplicity. And it includes Xerox TextBridge OCR software and a Photoshop acquire module, which lets you scan directly into Adobe Photoshop and compatible software.

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Apple digital cameras

Apple's QuickTake digital cameras are lightweight, convenient devices that can go anywhere with you, letting you capture high-quality digital images for your computer no matter where you are. They are exceptionally easy to use, yet offer impressive resolution and advanced photo-manipulation capabilities.

Apple Multiple Scan 14 Display



At a glance

- This is Apple's most affordable yet feature-rich color display, with stereo speakers and an easy-access headphone jack, to complement today's multimedia applications.
- It's a good match for entry-level desktop systems.

Specifications

- *Screen size:* 14 inches (diagonal)
- *Viewable image size:* 12.4 inches (diagonal)
- *Resolution/screen refresh rate:* 640 by 480 pixels and 800 by 600 pixels at 60 hertz, 640 by 480 pixels at 67 hertz, and 832 by 624 pixels at 75 hertz (Mac OS)*; 640 by 480 pixels and 800 by 600 pixels at 60 hertz (Windows)
- *Dot/stripe pitch:* 0.28-mm dot pitch
- *Picture tube:* Shadow mask
- *Dimensions (HWD):* 14.9 by 14.4 by 15.2 inches (37.8 by 36.5 by 38.6 cm)
- *Weight:* 25.0 lb. (11.3 kg)

Key features

- Supports multiple-scan technology for flexible viewing options.
- Lets you change viewing modes without restarting your system.
- Incorporates front-panel stereo speakers and a headphone jack.
- Works with both Macintosh systems and PCs running Windows.
- Features a tilt-and-swivel base for adjustable viewing.
- Qualifies for the EPA Energy Star rating (U.S.A.).

* Resolutions supported vary by computer.

Apple Multiple Scan 15 Display



At a glance

- This is an ideal entry-level color display, offering superb image quality on a flat screen and digital controls for precise adjustments.
- It's a good match for the Power Macintosh 6200/75 and Performa 6200CD series computers, as well as for the Power Macintosh 7200/100 and 7200/120.

Specifications

- *Screen size:* 15 inches (diagonal)
- *Viewable image size:* 13.3 inches (diagonal)
- *Resolution/screen refresh rate:* 640 by 480 pixels and 800 by 600 pixels at 60 hertz, 640 by 480 pixels at 67 hertz, 800 by 600 pixels at 72 hertz, and 832 by 624 pixels at 75 hertz (Mac OS)*; 640 by 480 pixels and 1,024 by 768 pixels at 60 hertz, and 800 by 600 pixels at 72 hertz (Windows)
- *Dot/stripe pitch:* 0.28-mm dot pitch
- *Picture tube:* Flat, square, shadow mask
- *Dimensions (HWD):* 16.7 by 15.9 by 17.8 inches (42.4 by 40.5 by 45.2 cm)
- *Weight:* 31.0 lb. (14.0 kg)**

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Key features

- Supports multiple-scan technology for flexible viewing options.
- Lets you change viewing modes without restarting your system.
- Includes integrated stereo speakers and a headphone jack.
- Works with both Macintosh systems and PCs running Windows.
- Features a tilt-and-swivel base for adjustable viewing.
- Qualifies for the EPA Energy Star rating (U.S.A.).

* Resolutions supported vary by computer.

** Two designs available worldwide—dimensions and weight may vary.

Apple Multiple Scan 1705 Display



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 users who have been using a 15-inch display and want to move up to a larger screen affordably.

Specifications

- *Screen size:* 17 inches (diagonal)
- *Viewable image size:* 15.8 inches (diagonal)
- *Resolution/screen refresh rate:* 640 by 480 pixels at 67 hertz, and 832 by 624 pixels and 1,024 by 768 pixels at 75 hertz (Mac OS); 640 by 480 pixels, 800 by 600 pixels, 1,024 by 768 pixels, and 1,280 by 1,024 pixels at 60 hertz, and 640 by 480 pixels at 75 hertz (Windows)
- *Dot/stripe pitch:* 0.28-mm dot pitch
- *Picture tube:* Flat, square, shadow mask
- *Dimensions (HWD):* 17.2 by 16.5 by 18.8 inches (43.7 by 41.9 by 47.8 cm)
- *Weight:* 45.2 lb. (20.3 kg)

Key features

- Features a high-quality shadow mask screen for clear, crisp, sharp images.
- Supports multiple-scan technology for flexible viewing options.
- Lets you change viewing modes without restarting your system.
- Works with both Macintosh systems and PCs running Windows.
- Features a tilt-and-swivel base for adjustable viewing.
- Qualifies for the EPA Energy Star rating (U.S.A.).

AppleVision 1710 Display



At a glance

- 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 7200/120 and 7600/120.

Specifications

- *Screen size:* 17 inches (diagonal)
- *Viewable image size:* 16.1 inches (diagonal)
- *Resolution/screen 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/stripe pitch:* 0.26-mm stripe pitch
- *Picture tube:* New-generation Sony Trinitron
- *Dimensions (HWD) and Weight:* 16.8 by 15.8 by 17.6 inches (42.7 by 40.5 by 45.2 cm); 49.0 lb. (22.1 kg)

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Key features

- Features a "new-generation" Sony Trinitron picture tube for outstandingly clear, crisp, sharp images.
- Incorporates new Apple DigitalColor technology for unprecedented color accuracy.
- Allows control over all screen functions through superior software integration.
- Supports multiple-scan technology for flexible viewing options.
- Works with both Macintosh systems and PCs running Windows.
- Qualifies for the EPA Energy Star rating (U.S.A.).

AppleVision 1710AV Display



At a glance

- This full-page color display is an exceptional tool for multi-media—it combines multiple-scan technology with built-in stereo speakers and a microphone.
- It's ideal for systems that are used to work with a variety of media, such as the Power Macintosh 8500/132 or 8500/150.

Specifications

- *Screen size:* 17 inches (diagonal)
- *Viewable image size:* 16.1 inches (diagonal)
- *Resolution/screen 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/stripe pitch:* 0.26-mm stripe pitch
- *Picture tube:* New-generation 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)

Key features

- Features a "new-generation" Sony Trinitron picture tube for outstandingly clear, crisp, sharp images.
- Uses Apple DigitalColor technology for unprecedented color accuracy.
- Incorporates CD-quality stereo speakers and a voice recognition-capable microphone.
- Supports multiple-scan technology for flexible viewing options.
- Works with both Macintosh systems and PCs running Windows.
- Qualifies for the EPA Energy Star rating (U.S.A.).

Apple Multiple Scan 20 Display



At a glance

- This color display introduces a new high-quality CRT design and is ideal for publishing professionals who need to be able to view up to two full pages clearly.
- It's a good match for Power Macintosh 8500 and 9500 series computers.

Specifications

- *Screen size:* 20 inches (diagonal)
- *Viewable image size:* 19.1 inches (diagonal)
- *Resolution/screen 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, 800 by 600 pixels, 1,024 by 768 pixels, and 1,280 by 1,024 pixels at 60 hertz (Windows)
- *Dot/stripe pitch:* 0.26-mm aperture grille pitch
- *Picture tube:* New-generation Sony Trinitron
- *Dimensions (HWD) and Weight:* 18.7 by 18.7 by 19.7 inches (47.5 by 47.5 by 50.0 cm); 66.0 lb. (29.7 kg)

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Key features

- Provides unprecedented image quality for a monitor of this size, by using a "new-generation" Sony Trinitron tube.
- Supports multiple-scan technology for flexible viewing options.
- Lets you change viewing modes without restarting your system.
- Enables two-page viewing with minimal document scrolling for increased productivity.
- Works with both Macintosh systems and PCs running Windows.
- Features a tilt-and-swivel base for adjustable viewing.
- Qualifies for the EPA Energy Star rating (U.S.A.).

Apple Color OneScanner 600/27



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, a powerful, easy-to-use application that works as a central guide to the scanner's many functions, including scanning, OCR, editing, printing, faxing, copying, archiving, and retrieving images.

Specifications

- *Color capabilities:* Recognizes up to 134 million colors
- *Scanner type:* Single-pass, 27-bit scanning
- *Scanning resolution:* 300 by 600 dots per inch
- *Maximum scan area:* 8.5 by 11.5 inches (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, JPEG, EPS, and Photoshop 2.5; compatible with most popular word processing, presentation, image editing, and page-layout software for the Macintosh
- *System requirements:* 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) and Weight:* 3.1 by 11.3 by 16.3 inches (7.9 by 28.7 by 41.4 cm); 13.2 lb. (6.0 kg)
- *Other features:*
 - Cool-scanning Xenon bulb
 - Includes Xerox TextBridge 3.0 OCR software (or eTypist 1.0 in Japan) and a Photoshop plug-in acquire scan module
 - Supports ColorSync 2.0

Key features

- Includes OneScanner Dispatcher 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 industry-acclaimed OCR software that saves you time by eliminating the need to rekey text.
- Features an attractive, compact design that fits easily into even the smallest work space.

Accessories

- 20-sheet automatic document feeder

QuickTake 150



At a glance

- The QuickTake 150 for Macintosh and QuickTake 150 for Windows are lightweight digital cameras that allow you to take 24-bit color pictures without using film—and quickly import them directly into your Macintosh or Windows software-based computer.
- They include a close-up lens, with built-in features designed to make close-up work easy.
- They come with software that allows you to download images directly into a personal computer; display those images in up to 16.7 million colors; and rotate, crop, scale, and zoom in on images as you edit them for use in your documents (PhotoFlash 2.0 for Macintosh version; QuickTake 1.5 and PhotoNow! TWAIN driver for Windows version).
- They can run either on AA lithium or nickel-cadmium batteries or by plugging them into a standard wall outlet (AC adapter not included).

Specifications

- *Image resolution:* 640 by 480 pixels for all images
- *Color resolution:* 24-bit color (millions of colors)
- *Memory:* 1MB of Flash EPROM stores up to 32 standard-quality images, 16 high-quality images, or a combination for more than one year
- *Shutter speed:* $\frac{1}{30}$ to $\frac{1}{175}$ seconds; self-timer—10 seconds automatic
- *Aperture range:* f2.8 to f16 automatic
- *Focus range:* 4 feet to infinity for standard lens; 10 to 14 inches for close-up lens

- *Flash*: Built-in automatic or manual; flash range from 4 feet to 9 feet; diffused with close-up lens system
- *Battery*: Runs on three rechargeable AA lithium batteries (included with camera); supports three 1.5-volt AA, R6P, LR-6, or SUM-3 nickel-cadmium or lithium batteries
- *File formats*: Macintosh—EPS, PICT, TIFF, JPEG, QuickTake; Windows—BMP, PCX, JPEG, TIFF, QuickTake
- *Image transfer*: Built-in high-speed serial interface, with appropriate serial cable for connection to Macintosh systems or PCs running Windows
- *Dimensions (HWD)*: 2.0 by 5.0 by 6.0 inches (5.08 by 12.7 by 15.2 cm)
- *Weight*: 0.9 lb. (0.41 kg)

Key features

- Lets you quickly download digital images into your computer for use in documents you create.
- Lets you open images directly in most business productivity, graphics, and desktop publishing applications.
- Offers easy one-step use for taking pictures and importing them into your files—with easy-reading icons for monitoring flash and battery status, resolution, self-timer settings, and more.
- Lets you store 32 standard-quality images, 16 high-quality images, or a combination.

Accessories

- QuickTake Battery Booster Pack
- QuickTake AC Adapter
- QuickTake Travel Case
- QuickTake Connection Kit for Windows
- QuickTake Connection Kit for Macintosh

Personal Digital Assistants

MessagePad 120 with Newton 2.0



At a glance

- The MessagePad 120 with the award-winning Newton 2.0 operating system allows you to organize your work and personal life; integrate information with your Mac OS or Windows software-based personal computer; communicate using faxes, pages, and e-mail; and expand your capabilities with third-party solutions.
- The MessagePad 120 can receive wireless messages and alphanumeric pages, and can send and receive faxes and e-mail.
- When you write on its built-in screen with a MessagePad stylus, the MessagePad 120 with Newton 2.0 converts your printed or cursive handwritten notes into typed text. It also keeps track of your calendar, includes a call 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.

Specifications

- *Processor:* ARM 610 RISC
- *Speed:* 20 megahertz
- *Memory:* 2MB 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
- *Ports:* AC power port, serial port
- *Display:* 3.8- by 2.8-inch low-power reflective LCD
- *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
- *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)
 - Comes with Newton Backup Utility and serial cables for connection to Mac OS or Windows software-based computers

Key features

- It's easy to back up and restore personal data to Mac OS or Windows software-based computers, as well as to install software and electronic "books" on the MessagePad 120 with Newton 2.0 via the included Newton Backup Utility and serial cables.
- The MessagePad 120 with Newton 2.0 offers an extensive range of wired and wireless communications, including cellular, packet radio, wireless LAN (IR/RF), and paging. Its communications capabilities allow you to send and receive faxes and e-mail; receive messages; "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; and connect directly to a wide range of printers.
- It provides built-in printer support for PostScript-equipped LaserWriter printers and the Personal LaserWriter LS and 300, as well as supporting StyleWriter I and II printers.
- It supports popular personal computer applications, including Quicken from Intuit (for the Mac OS and Windows) and Now Up•to•Date & Contact from Now Software (for both the Mac OS and Windows).

MessagePad 130 with Newton 2.0



At a glance

- The MessagePad 130 with the award-winning Newton 2.0 operating system is the first Newton PDA for mobile professionals that offers backlighting for occasional use and a new 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; communicate using faxes, wireless paging, and e-mail; and expand your capabilities with third-party solutions.
- 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 new, 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 prefer, 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.

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

- *Ports:* AC power port, serial port
- *Display:* 3.8- by 2.8-inch transreflective LCD display with EL backlight; nonglare writing surface
- *Battery:* Four AA alkaline batteries (include); 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 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

Key features

- The MessagePad 130 with Newton 2.0 offers user-controllable backlighting for use under any lighting conditions.
- It comes with an additional 512K of system memory, offering better performance with wired and wireless communications.
- It's 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.
- Its communications capabilities 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 range of printers.
- It 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 Accessories

MessagePad 120 and 130

- MessagePad Power Adapter
- MessagePad Rechargeable Battery Pack
- MessagePad Charging Station
- MessagePad Telescoping Pen
- MessagePad Carrying Case LC
- MessagePad Wireless Communications Case

Newton Platform

- Newton Keyboard
- Newton Press
- Newton 2MB Flash Storage Card and 4MB Flash Storage Card
- Newton Print Pack
- Newton Connection Utilities for the Mac OS or Windows software-based computers

Newton Toolkit 1.6

★142 The Newton Toolkit 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 Macintosh computer connected to a Newton device via serial or LocalTalk cables.

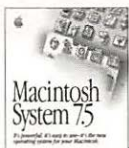
Apple Software

Apple Software

System Software and Related Products

Macintosh System 7.5

Macintosh System 7.5 is the latest version of the popular Mac OS—the Macintosh operating system. It not only gives you the best graphical user interface available, but also provides advanced capabilities in productivity, printing, collaboration, document layout, and multimedia. Important features include the following:



- *Enhanced Finder.* Improved Find File commands, security features such as application and System Folder locking, and Drag and Drop of text and graphics between applications and the Finder are just a few of the productivity improvements in this version. In addition, the new Window Shade feature reduces screen clutter by letting you collapse windows to access other windows behind them without closing documents. And the new Stickies feature lets you create on-screen reminder messages.
- *Apple Guide.* This interactive on-screen help feature actually leads you through tasks step by step, so you can master the processes, procedures, and capabilities of your Macintosh and the applications running on it.
- *Macintosh PC Exchange and Macintosh Easy Open.* These utilities allow you to work with DOS-formatted disks as though they were Mac OS disks. You can open and edit Mac OS, MS-DOS 6.2, and Windows 3.1 files even when you don't have the original application. (Appropriate file translators are required.)
- *QuickDraw GX.* This new printing and graphics architecture lets you create portable "print and view" documents from any

application. It provides enhanced printer control through desktop printer icons. It incorporates Apple's ColorSync technology for maintaining consistent color from scanned document to displayed image to printed result. In addition, it supports Apple TrueType and Adobe Type Manager GX font technologies, and is optimized for enhanced performance on Power Macintosh systems.

- *PowerTalk*. PowerTalk provides a universal desktop mailbox for all electronic mail, fax, and Internet correspondence, and allows you to exchange mail with other PowerTalk users either without a server or through a PowerShare Collaboration Server (available separately). The DigiSign digital signature feature offers you and your colleagues the efficiency and security of signing off projects electronically and complies with the RSA Public Key Cryptography System.

- *PowerBook utilities*. These features let you easily designate which files and folders to synchronize between your desktop Macintosh and your PowerBook—over a network, locally, or by using a floppy disk. They provide improved battery life by offering automatic backlight dimming, persistent RAM disks, and sleep keys, so your PowerBook battery will last longer. A Control Strip gives you convenient access to AppleTalk on/off, battery monitor, file sharing, hard disk spin-down, power management, sound volume, and more. And these utilities let you designate files to be printed the next time you connect to a printer.

- *AppleScript*. You can create custom solutions by linking and automating functions from different applications—and from the Finder.

- *MacTCP*. This feature prepares your Macintosh for connection to other systems using the industry-standard Transmission Control Protocol/Internet Protocol (TCP/IP) networking protocols.

- *QuickTime*. This industry-standard multimedia technology enables you to edit and play back digital video. It's optimized for enhanced performance on Power Macintosh computers, and through its cross-platform file format you can play back Macintosh QuickTime files on Windows software-based systems by using QuickTime for Windows.

Macintosh Application Environment

Macintosh Application Environment (MAE)—the virtual Macintosh for open systems—is an innovative software product that allows users of UNIX RISC-based workstations to run Macintosh 680x0 applications right on their system. A complete Macintosh environment in an X Window, MAE brings the functionality and ease of use of the Macintosh computer to Sun Microsystems SPARCstations running the SunSoft Solaris operating system, as well as to Hewlett-Packard Series 700 workstations running HP-UX.

- *Is a virtual Macintosh.* MAE provides the familiar Macintosh graphical user interface and desktop in an X Window. Based on the Macintosh System 7.1 Finder (and incorporating several features of Macintosh System 7.5), MAE lets you open UNIX files (including NFS-mounted volumes), access UNIX applications through the Macintosh user interface, and use systems services (such as PostScript printers on the UNIX network).

- *Runs Macintosh applications.* MAE lets you use the most popular off-the-shelf Macintosh software on your UNIX workstation. It provides one consistent interface for all Macintosh applications, complete with icons, menus, windows, and outline fonts. It even reads Macintosh high-density floppy disks and CD-ROMs.

- *Integrates smoothly with UNIX.* MAE is fully integrated with the standard UNIX file system and allows you to copy and paste text and graphics between the UNIX and Macintosh environments. MAE organizes UNIX files and applications, and allows use of the control panels from the Macintosh desktop to configure your keyboard, mouse, and monitor settings.

- *Makes networking easy.* Through built-in support for AppleTalk, you can easily share documents, electronic mail, and printers with other MAE and Macintosh users, allowing for tighter integration between UNIX workstations and Macintosh-based administrative systems. And support for MacTCP enables you to access the Internet and TCP/IP-based applications.

At Ease 3.0: Feel good about sharing your family Macintosh

With At Ease 3.0 software, you can manage your shared Macintosh and make your Macintosh even easier to use. It's perfect for home use (especially if you have young children), 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. For young children and novice users, there's the simple At Ease desktop, which features large buttons and folders. Or you can set up the familiar Macintosh Finder interface for older children, teens, or more experienced users. Whichever interface you choose, the security features of At Ease protect your files and applications. Version 3.0 offers several significant improvements over the previous version of At Ease:

- *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.* Streamlines the process of installing and configuring your At Ease software.
- *Support for up to 40 users.* Lets you create customized environments for up to 40 different people on non-networked computers, such as an entire school class.

At Ease for Workgroups 3.0: Controls access to applications and files in networked environments

Ideal for schools and universities, At Ease for Workgroups 3.0 software lets you easily manage a group of shared Macintosh computers on a network. You can create customized working environments for different ages, levels of computing experience, and needs—choosing from the simple At Ease desktop or the familiar Macintosh Finder interface. The security features of At Ease for Workgroups protect your files and applications. Version 3.0 offers a number of enhancements over the previous version:

- *Easy customization.* Supports up to 200 different configurations and 4,000 users.



- *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 students.
- *A new security level.* Allows minor administrative tasks, such as control of user passwords and application access, to be handled by someone other than the administrator (such as instructors).
- *Shared-access and drop-box folders.* Makes it easy for groups to share files, and for students to submit assignments electronically.
- *Support for multiple servers.* Lets you use At Ease for Workgroups on a network with more than one server.

Apple Personal Diagnostics

Apple Personal Diagnostics software helps you keep your Macintosh trouble-free by performing comprehensive diagnostic tests on your logic board, hard disk, floppy disk drive, system software, and display. It also provides information about your system configuration. The Automated Diagnostics feature allows you to test your Macintosh automatically when you aren't using it. You'll be alerted to problems and given simple steps to correct them. Apple Personal Diagnostics supports more than 140 Macintosh models, from the Macintosh Plus through the Power Macintosh 9500/150.

Learning and Entertainment

Apple CD-ROM Collection

The Apple CD-ROM Collection is designed to help users get the most from their multimedia computers, by offering affordable bundles of CD-ROM-based titles. The collection currently consists of 14 CD-ROM title packs—each containing three high-quality CD-ROMs. Each pack also includes the Xpand Xpo CD, which features demos of all the available CD-ROM titles as well as thousands of other Macintosh-related products.

- *Children's learning and entertainment titles.* Packs designed for young users include Smart Fun for Kids, Creative Activities for Kids, and Adventures for Kids.

- *Adult entertainment and reference titles.* Packs designed for adults include Sports and Humor, Encyclomedia, and Learning for Adults.

Apple Home Learning Series

Apple Home Learning products are designed to encourage learning beyond the classroom by building bridges between school and home. By providing powerful, playful, and engaging experiences, our products will inspire children's love of learning. These products are built on rich curriculum-focused content, giving students a head start in school. Titles are based on the best thinking on how children learn and how technology can foster their learning. Apple Home Learning Series products are available in both Mac OS and Windows versions.

- *Earth Explorer.* Take a multimedia tour of the environment. With Earth Explorer, children will discover a fascinating new way to understand our planet through hundreds of interactive articles, games, puzzles, videos, and more. Supported by the National Science Foundation, Earth Explorer is designed to develop critical-thinking skills through engaging games that highlight vital environmental issues.

- *WiggleWorks Story Packs 1 & 2.*

Developed by Scholastic, a leading educational publisher, WiggleWorks is the classroom-proven software that has helped thousands of children learn to



read and write. Each WiggleWorks Story Pack combines three engaging and educational stories that encourage children to explore creative reading and writing activities on their own or with a parent. WiggleWorks is designed to be fun yet challenging, while allowing kids to learn at their own pace. Parents can customize the WiggleWorks setup for various reading and writing skill levels, making it ideal for multiple-child households. With WiggleWorks, children are also able to write and print their own books and record their voices.

Compatibility and Communications

★ The Apple Internet Connection Kit

The Apple Internet Connection Kit is a collection of Apple and third-party software that allows a Macintosh user to connect directly to the Internet quickly and easily. Designed as an all-in-one solution, the kit facilitates registration with an Internet service provider, enabling you to get connected to the Internet immediately. It includes a "getting started" guide, Apple Guide on-line support, and the following Internet applications:



- *Apple Internet Dialer software for quick, on-line registration with a qualified Internet service provider*
- *Netscape Navigator World Wide Web browser software*
- *Claris Emailer Lite e-mail software*
- *Fetch FTP software for downloading files*
- *Aladdin StuffIt Expander decompression software*
- *NewsWatcher newsgroup browser software*
- *SLIP and PPP communications software*
- *NCSA Telnet for connecting to UNIX-based libraries and catalogs*
- *QuickTime VR Player multimedia viewer software*
- *Adobe Acrobat Reader to view PDF files*
- *RealAudio Player from Progressive Networks to play audio in real time over the Internet*

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.

Cyberdog

Cyberdog is a unique Internet product suite that lets you focus on what you want to get from the Internet, rather than on the Internet itself. Based on Apple's OpenDoc component software technology, it brings Macintosh ease of use to the Internet—providing a simple, consistent way of dealing with the wealth of Internet content and services so you can take maximum advantage of this incredible resource.

Today, the very popularity of the Internet has become problematic: It's increasingly difficult to wade through all of the available content to find items of use or interest—as well as to communicate this information to others. Cyberdog is designed to deal with both problems, by providing a range of integrated, consistent Internet access and communications capabilities.

With Cyberdog, you have simple, organized access to all of the standard Internet services—mail, newsgroups, searching, browsing, and tracking your activities. But more important, Cyberdog lets you create customized views of the Internet for yourself or for others by developing documents that can include text, graphics, live “buttons” to specific Internet sites, and even viewers that display live Internet content. So, for example, if your business could benefit from the latest news about commodities prices and politics in a specific region, you want to keep up on international market activities, *and* you want to know what to do if you're having equipment problems, you could create a document that provides precisely that information—and save all of the time and energy you and your employees would otherwise spend “surfing the Net” looking for helpful items.

Cyberdog functionality includes simple, single-button access to the Internet, and a host of useful tools: a notebook and log, which let you save your favorite Internet places and keep track of where you've been; integrated mail and newsgroup services, with extensive sorting, filing, and search options; a Drag and Drop Web

browser; and integrated data viewers, so you can simply click on any data type to have it rendered appropriately—no more worries about assembling the right collection of “helper” applications to deal with most common Internet data types.

What makes Cyberdog unique is that it lets you handle a number of disparate Internet-related functions intuitively, with the same consistency of action you’re used to on your Macintosh; double-click to open, drag to copy—whether you’re dealing with a site’s URL or a data file. That’s because Cyberdog takes advantage of OpenDoc technology—which lets multiple software modules work together as a single, seamless application—to provide a level of integration unmatched by any other Internet tool. And the modular nature of Cyberdog also means that you can choose to replace or update any of its components as new functionality becomes available—a boon to anyone trying to stay abreast of the fast-changing world of the Internet.

MacX: Apple’s high-performance X Window System solution for the Mac OS

MacX 1.5 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 5—MacX 1.5 lets you run the latest 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, including AppleTalk, TCP/IP, and DECnet. 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 lets you use a modem and telephone lines to connect a remote Macintosh or PowerBook computer to another Macintosh computer or to an entire AppleTalk network. The Apple Remote Access product family provides an easy-to-use, cost-effective, and secure solution for an entire range of Macintosh users—from individuals to workgroups to large organizations.

- *Apple Remote Access Personal Server.* Ideal for individuals or small organizations, this product provides remote access to a single Macintosh computer or an entire AppleTalk network over a single telephone line. It offers enhanced ease of use, productivity features, and security options, and includes Apple Remote Access Client for Macintosh software.
- *Apple Remote Access Client for Macintosh.* This allows you to connect to any Apple Remote Access-compatible server.
- *Apple Remote Access MultiPort Server.* This 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 four simultaneous connections. And, when combined with one or more Apple Remote Access MultiPort Server 4-Port Expansion Kits, your server can support up to 16 simultaneous connections.
- *Apple Remote Access MultiPort Server 4-Port Expansion Kit.* Expand your Apple Remote Access MultiPort Server with the Apple Remote Access MultiPort Server 4-Port Expansion Kit and get four more simultaneous connections with each expansion kit.
- *Apple Remote Access MultiPort X.25 Extension.* This software gives you the ability to connect Apple Remote Access clients to an Apple Remote Access MultiPort Server through public or private networks, taking advantage of the communications cost savings that X.25 offers (requires MacX25).

PowerShare Collaboration Servers

With PowerShare Collaboration Servers, network administrators can centralize PowerTalk services (built into Macintosh System 7.5) for workgroup access. PowerShare software provides mail and catalog server capabilities optimized for group use, and includes an additional level of network security.

- *Server-based mail.* PowerShare stores all messages on a remote server, rather than on each user's computer. This makes it easy for network administrators to monitor disk allocation and use, and frees space on users' hard disks. PowerShare also enables

retrieval of mail when using someone else's computer, and permits those sharing a computer to have private mailboxes.

- *Shared catalogs.* With PowerShare, a single administrator handles everything—there's no need for individual users to maintain personal address books separately. Centralizing catalog administration makes your communications system more reliable—and makes users more productive.

- *Enhanced network security.* PowerShare keeps communications confidential by encrypting messages as they move along the network.

- *Easy installation and management.* An Easy Setup utility allows the administrator to configure servers in a matter of minutes—just give the system a name and password, and Easy Setup takes care of the rest. All that's left is to add users. Subsequent server administration is performed using a remote administration program, allowing the network administrator to manage servers from any Macintosh computer on the network.

- Version 1.1 lets you import text-file information such as Internet addresses, phone numbers, and more. Internet addresses can reside in the PowerShare catalog, and then can be edited and maintained from within the PowerShare Administration Application. Also includes Apple Migration Tool for Microsoft Mail, which transfers information from a Microsoft Mail server to a PowerShare Server.

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 on-line 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.

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.

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 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 a wide range of Macintosh and Power Macintosh computers and Workgroup Servers.

- *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.

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.

Language Kits

Apple Language Kits

Apple Language Kits are software packages that offer everything needed to create, edit, and print documents in a variety

of languages. They work with Macintosh, PowerBook, and PowerPC processor-based computers, and come with fonts and learning aids to help you get started computing in a language other than English.

- *Arabic Language Kit*—Includes five Arabic and four Persian TrueType fonts that you can print in any size.
- *Chinese Language Kit*—Includes scalable Chinese TrueType fonts; offers a variety of input methods, including Pinyin, Zhuyin, and Cangjie.
- *Cyrillic Language Kit*—Includes three scalable Cyrillic fonts.
- *Hebrew Language Kit*—Includes four scalable Hebrew fonts.
- *Japanese Language Kit*—Includes three Kanji TrueType fonts for high-quality output.
- ★ • *Korean Language Kit*—Includes five scalable fonts; offers a variety of input methods, including Romaja and Hanja.

Programming

Oracle Power Objects

Oracle Power Objects software is designed to offer the simplest way to create powerful, cross-platform database applications.

It is available in two versions (stand-alone and client/server) for both the Mac OS and Windows software platforms, for a total of four products. By combining the database power of Oracle with Apple's ease of use, Oracle Power Objects makes complex data-management functionality automatic—so you can focus on the unique requirements of your application, not on coding details.

- *Drag and Drop Objects.* Oracle Power Objects streamlines the process of creating reusable application components by letting you work visually, using Drag and Drop Objects.
- *Familiar technologies.* The Oracle Power Objects scripting language, Oracle Basic, leverages the popular BASIC syntax. And you can extend your applications with industry standards such as OCX and OLE 2. You can also call .DLLs under Windows 3.1.
- *Cross-platform development capabilities.* With Oracle Power Objects, the applications you develop on Mac OS systems can run

unmodified on Windows software-based systems and vice versa, so you can support all of your users by maintaining only a single set of source code.

- *Scalable solutions.* The applications you create using Oracle Power Objects can scale seamlessly from the Local Database to the most popular relational database servers, including Oracle7, Sybase SQL Server, and Microsoft SQL Server.

AppleScript

AppleScript is the first truly integrated scripting, or macro, language developed for a personal computer. Its convenient natural-language syntax makes it easy to learn and use and enables you to automate routine and complex tasks to increase personal productivity. Dialects are provided for English, French, and Japanese. Tasks that can be automated include creating backups, filing files, accessing mainframes, and downloading mail.

AppleScript comes with built-in commands that make it easy to develop useful solutions. There are dozens of popular third-party applications that support and can be controlled by AppleScript. Thus, AppleScript is an ideal tool for integrating and harnessing the power of existing general-purpose applications to meet your specific needs.

AppleScript includes FaceSpan, an interface builder that lets you quickly put together custom applications with familiar Macintosh interface elements—all tied together by AppleScript commands. These commands can be entered manually or recorded in macros.

Multimedia Tools

Multimedia tool software is located in the Multimedia section

QuickCharts

Desktop & Portable Computers QuickChart

Model	Processor	Memory	Storage	Key features
Macintosh Performa 5200CD series	75-MHz PowerPC 603 with math coprocessor, 16K on-chip cache; 256K level 2 cache	8MB–64MB	800MB or 1GB; quad-speed CD-ROM drive	PowerPC performance in an innovative all-in-one design; unique multimedia expansion options; Energy Star compliant
Macintosh Performa 5300CD series	100-MHz PowerPC 603e with math coprocessor, 16K on-chip cache; 256K level 2 cache	16MB–64MB	1.2GB; quad-speed CD-ROM drive	Faster PowerPC performance in an innovative all-in-one design; unique multimedia expansion options; Energy Star compliant
Macintosh Performa 6200CD series	75-MHz PowerPC 603 with math coprocessor, 16K on-chip cache	8MB–64MB	1GB or 1.2GB; quad-speed CD-ROM drive	PowerPC performance in a flexible modular design; unique multimedia expansion options; Energy Star compliant
Macintosh Performa 6300CD	100-MHz or 120-MHz PowerPC 603e with math coprocessor, 32K on-chip cache; 256K level 2 cache	8MB or 16MB–64MB	1.2GB; quad-speed CD-ROM drive	Faster PowerPC performance in a flexible modular design; unique multimedia expansion options

Macintosh LC 580	66/33-MHz 68LC040 with 32-bit data bus	8MB–52MB	800MB; CD-ROM drive ¹	All-in-one multimedia Macintosh; PowerPC upgrade capability; Energy Star compliant
Power Macintosh 5200/75 LC	75-MHz PowerPC 603 with math coprocessor, 16K on-chip cache; 256K level 2 cache	8MB–64MB	500MB; quad-speed CD-ROM drive	PowerPC performance in an innovative all-in-one design; unique multimedia expansion options; Energy Star compliant
Power Macintosh 5260/100	100-MHz PowerPC 603e with math coprocessor, 16K on-chip cache; 256K level 2 cache (optional)	16MB–64MB	800MB; quad-speed CD-ROM drive	PowerPC performance in an innovative all-in-one design; unique multimedia expansion options
Power Macintosh 5300/100 LC	100-MHz PowerPC 603e with math coprocessor, 16K on-chip cache; 256K level 2 cache	16MB–64MB	1.2GB; quad-speed CD-ROM drive	Faster PowerPC performance in an all-in-one design; unique multimedia expansion options; Energy Star compliant
Power Macintosh 5400/120	120-MHz PowerPC 603e with math coprocessor, 32K on-chip cache; 256K level 2 cache (optional)	16MB–136MB	1.6GB; quad-speed CD-ROM drive	Faster PowerPC performance in an innovative all-in-one design; PCI expansion slots; Energy Star compliant

¹ Optional

Desktop & Portable Computers QuickChart

Model	Processor	Memory	Storage	Key features	(continued)
Power Macintosh 6200/75	75-MHz PowerPC 603 with math coprocessor, 16K on-chip cache; 256K level 2 cache	8MB–64MB	500MB; quad-speed CD-ROM drive	High performance; PowerPC processor; unique multimedia expansion options	
Power Macintosh 7200/100 and 7200/120	100-MHz or 120-MHz PowerPC 601 with math coprocessor, 32K on-chip cache; 256K level 2 cache (optional)	8MB–256MB	800MB (7200/100) or 1.2GB (7200/120); quad-speed CD-ROM drive; one 3.5-inch peripheral	Powerful, flexible, and affordable; PowerPC performance; three PCI expansion slots; Ethernet capability; Energy Star compliant	
Power Macintosh 7200/120 PC Compatible	120-MHz PowerPC 601 with math coprocessor, 32K on-chip cache; 256K level 2 cache; Pentium 100-MHz processor	8MB–256MB; 8MB–72MB	1.2GB; quad-speed CD-ROM drive	Hardware-level MS-DOS 6.22 and Windows 3.1 compatibility	
Power Macintosh 7600/120	120-MHz PowerPC 604 with math coprocessor, 32K on-chip cache; 256K level 2 cache	16MB–512MB	1.2GB; quad-speed CD-ROM drive; one additional 3.5-inch device	Powerful professional system; PowerPC performance; three PCI expansion slots; processor upgradability; Ethernet capability	

Power Macintosh 8500/132 and 8500/150	132-MHz or 150-MHz PowerPC 604 with math coprocessor, 32K on-chip cache; 256K level 2 cache	16MB–512MB	1.2GB or 2GB; quad-speed CD-ROM drive; one additional 3.5-inch device	Powerful, feature-rich system; PowerPC 604 performance; three PCI expansion slots; processor upgradability; Ethernet capability
Power Macintosh 9500/150	150-MHz PowerPC 604 with math coprocessor, 32K on-chip cache; 512K level 2 cache	16MB or 32MB–768MB	2GB; quad-speed CD-ROM drive; two additional 3.5-inch devices	Most powerful and expandable Power Macintosh computer; PowerPC 604 performance; six PCI expansion slots; processor upgradability; Ethernet capability
PowerBook 190/66	66/33-MHz 68LC040	4MB or 8MB–36MB or 40MB	500MB	Most affordable 68LC040-based PowerBook; PC Card slots and expansion bay; preinstalled software; upgradable to PowerPC; Energy Star compliant
PowerBook 190cs/66	66/33-MHz 68LC040	4MB or 8MB–36MB or 40MB	500MB	Most affordable color PowerBook; PC Card slots and expansion bay; preinstalled software; upgradable to PowerPC; Energy Star compliant
PowerBook Duo 2300c/100	100-MHz PowerPC 603e with math coprocessor, 16K data cache, 16K instruction cache	8MB or 20MB–56MB	750MB or 1.1GB	Smallest, lightest PowerBook; PowerPC performance; active-matrix color display; Energy Star compliant

Desktop & Portable Computers **QuickChart**

Model	Processor	Memory	Storage	Key features	(continued)
PowerBook 5300/100	100-MHz PowerPC 603e with math coprocessor, 16K data cache, 16K instruction cache	8MB–64MB	500MB	Affordable; PowerPC performance; PC Card slots and expansion bay; 8-bit video-out; infrared technology; upgradable to active-matrix color display; Energy Star compliant	
PowerBook 5300cs/100	100-MHz PowerPC 603e with math coprocessor, 16K data cache, 16K instruction cache	8MB or 16MB–64MB	500MB or 750MB	PowerPC performance; dual-scan color display; PC Card slots and expansion bay; 8-bit video-out; infrared technology; upgradable to active-matrix color display; Energy Star compliant	
PowerBook 5300c/100	100-MHz PowerPC 603e with math coprocessor, 16K data cache, 16K instruction cache	8MB or 16MB–64MB	500MB or 750MB	PowerPC performance; active-matrix color display; PC Card slots and expansion bay; 8-bit video-out; infrared technology; Energy Star compliant	

PowerBook 5300ce/117

117-MHz PowerPC
603e with math
coprocessor,
16K data cache,
16K instruction cache

32MB–64MB

1.1GB

PowerPC performance; highest-resolution color display;
SVGA display; high-capacity hard disk drive;
PC Card slots; 8-bit video-out; infrared technology;
Energy Star compliant

Desktop Computer Upgrades **QuickChart**

If you currently have this...**You can upgrade to this...****By purchasing this...**

Macintosh LC 475

PowerPC processor

Macintosh Processor Upgrade¹

Macintosh LC 575

PowerPC processor

Macintosh Processor Upgrade¹

Macintosh LC 580

PowerPC processor

Macintosh Processor Upgrade¹

Macintosh LC 630

PowerPC processor

Macintosh Processor Upgrade¹

Macintosh Performa 580

PowerPC processor

Macintosh Processor Upgrade¹

Macintosh Performa 630 series

PowerPC processor

Macintosh Processor Upgrade¹

Macintosh Quadra 630

PowerPC processor

Macintosh Processor Upgrade¹

Power Macintosh 7200 series	Power Macintosh 7600 series	Power Macintosh 7600 Logic Board Upgrade ¹ and Processor Card Upgrade (120 MHz or 132 MHz) ²
Macintosh Quadra 840AV Power Macintosh 8100/80 Power Macintosh 8100/100 Power Macintosh 8100/110	Power Macintosh 8500 series	Power Macintosh 8500 Logic Board Upgrade ¹ and Processor Card Upgrade (120 MHz or 132 MHz) ²

¹ Must be installed by an authorized Apple reseller or service provider.

² User-installable; but Apple recommends installation by an authorized Apple reseller or service provider.

Portable Computer Upgrades **QuickChart**

If you currently have this...

You can upgrade to this...

By purchasing this...

Macintosh PowerBook 190/66
Macintosh PowerBook 190cs/66

PowerPC processor

Macintosh PowerBook Logic Board Upgrade Kit

infrared technology

Macintosh PowerBook Infrared Upgrade Kit

8-bit video-output

Macintosh PowerBook 8-bit Color Video-out Upgrade Kit

Active-matrix color display

Macintosh PowerBook 10.4" Active-Matrix Color Display Upgrade Kit¹

Macintosh PowerBook Duo 230
Macintosh PowerBook Duo 250
Macintosh PowerBook Duo 270c
Macintosh PowerBook Duo 280
Macintosh PowerBook Duo 280c

PowerPC processor

Macintosh PowerBook Logic Board Upgrade Kit

Macintosh PowerBook 520 Macintosh PowerBook 520c Macintosh PowerBook 540 Macintosh PowerBook 540c	PowerPC processor	Macintosh PowerBook Processor Card Upgrade
Macintosh PowerBook 5300/100 Macintosh PowerBook 5300cs/100	Active-matrix color display	Macintosh PowerBook 10.4" Active-Matrix Color Display Upgrade Kit

¹ Requires PowerPC upgrade.

Memory Configurations QuickChart

Minimum configuration

Model	Built-in RAM on logic board	Number of SIMM, DIMM, or card slots	Amount of memory (RAM) you want...	And how to get it...
Macintosh LC 580 ¹	4MB	One SIMM slot filled with a 4MB SIMM, and one empty SIMM slot	8MB configuration 52MB configuration	= 4MB on logic board + one 4MB SIMM = 4MB on logic board + one 16MB SIMM + one 32MB SIMM
Macintosh Performa 5300CD series Macintosh Performa 6300CD Power Macintosh 5300/100 LC	None	One SIMM slot filled with a 16MB SIMM, and one empty SIMM slot	16MB configuration 32MB configuration 64MB configuration	= one 16MB SIMM = one 16MB SIMM + one 16MB SIMM = one 32MB SIMM + one 32MB SIMM
Macintosh Performa 5200CD and 6200CD series Power Macintosh 5200/75 LC and 5260/100 Power Macintosh 6200/75	None	One SIMM slot filled with an 8MB SIMM, and one empty SIMM slot	8MB configuration 16MB configuration 32MB configuration 64MB configuration	= one 8MB SIMM = one 8MB SIMM + one 8MB SIMM = one 16MB SIMM + one 16MB SIMM = one 32MB SIMM + one 32MB SIMM
Power Macintosh 5400/120	8MB	One DIMM slot filled with an 8MB DIMM, and one empty DIMM slot	24MB configuration	= 8MB on logic board + two 8MB DIMMs

Power Macintosh 7200/100 and 7200/120²	None	Four 168-pin DIMM slots	8MB configuration = one 8MB DIMM 16MB configuration = two 8MB DIMMs 32MB configuration = four 8MB DIMMs 64MB configuration = four 16MB DIMMs 256MB configuration = four 64MB DIMMs
Power Macintosh 7600/120²	None	Eight 168-pin DIMM slots	16MB configuration = two 8MB DIMMs 32MB configuration = four 8MB DIMMs 128MB configuration = eight 16MB DIMMs 512MB configuration = eight 64MB DIMMs
Power Macintosh 8500/132 and 8500/150²	None	Eight 168-pin DIMM slots	16MB configuration = two 8MB DIMMs 32MB configuration = four 8MB DIMMs 128MB configuration = eight 16MB DIMMs 512MB configuration = eight 64MB DIMMs
Power Macintosh 9500/150²	None	Twelve 168-pin DIMM slots	16MB configuration = two 8MB DIMMs 96MB configuration = twelve 8MB DIMMs 192MB configuration = twelve 16MB DIMMs 768MB configuration = twelve 64MB DIMMs

¹ These computers can be configured in a variety of ways, using 1MB, 4MB, 8MB, 12MB, 16MB, and 32MB SIMMs. It is not necessary to have equal amounts of memory in the two SIMM slots. Maximum amount for one slot is 16MB; for the other, 32MB.

² These computers can be configured in a variety of ways, using a variety of DIMM sizes. It is not necessary to have equal amounts of memory in the DIMM slots. The configurations given represent a sampling of the possibilities, including the maximum memory configuration.

Memory Configurations QuickChart

(continued)

Minimum configuration

Model	Built-in RAM on logic board	Number of SIMM, DIMM, or card slots	Amount of memory (RAM) you want...	And how to get it...
PowerBook 190/66 PowerBook 190cs/66	4MB	One memory expansion slot	4MB configuration 8MB configuration 12MB configuration 20MB configuration ³ 28MB configuration ³ 36MB configuration ³	= 4MB on logic board = 4MB on logic board + 4MB memory card = 4MB on logic board + 8MB memory card = 4MB on logic board + 16MB memory card = 4MB on logic board + 24MB memory card = 4MB on logic board + 32MB memory card
PowerBook 190/66 PowerBook 190cs/66	8MB	One memory expansion slot	8MB configuration 12MB configuration 16MB configuration 24MB configuration ³ 32MB configuration ³ 40MB configuration ³	= 8MB on logic board = 8MB on logic board + 4MB memory card = 8MB on logic board + 8MB memory card = 8MB on logic board + 16MB memory card = 8MB on logic board + 24MB memory card = 8MB on logic board + 32MB memory card
PowerBook Duo 2300c/100	8MB	One memory expansion slot	8MB configuration 12MB configuration 16MB configuration 20MB configuration ⁴ 24MB configuration ³ 32MB configuration ³ 40MB configuration ³ 56MB configuration ³	= 8MB on logic board = 8MB on logic board + 4MB memory card = 8MB on logic board + 8MB memory card = 8MB on logic board + 12MB memory card = 8MB on logic board + 16MB memory card = 8MB on logic board + 24MB memory card = 8MB on logic board + 32MB memory card = 8MB on logic board + 48MB memory card

PowerBook 5300/100 PowerBook 5300cs/100 PowerBook 5300c/100	8MB	One memory expansion slot	8MB configuration = 8MB on logic board 16MB configuration = 8MB on logic board + 8MB memory card 24MB configuration ³ = 8MB on logic board + 16MB memory card 32MB configuration ³ = 8MB on logic board + 24MB memory card 40MB configuration ³ = 8MB on logic board + 32MB memory card 48MB configuration ³ = 8MB on logic board + 40MB memory card 64MB configuration ³ = 8MB on logic board + 56MB memory card
PowerBook 5300cs/100 PowerBook 5300c/100 PowerBook 5300ce/117 ⁵	16MB	One memory expansion slot	16MB configuration = 16MB on logic board 24MB configuration = 16MB on logic board + 8MB memory card 32MB configuration ³ = 16MB on logic board + 16MB memory card 40MB configuration ³ = 16MB on logic board + 24MB memory card 48MB configuration ³ = 16MB on logic board + 32MB memory card 56MB configuration ³ = 16MB on logic board + 40MB memory card 64MB configuration ³ = 16MB on logic board + 48MB memory card

³ Requires third-party product.

⁴ Customers who purchase the 20MB configuration of the PowerBook Duo 2300c/100 must remove the 12MB memory card that comes installed in the expansion slot to add RAM.

⁵ Customers who purchase the PowerBook 5300ce/117 must remove the 16MB memory card that comes installed in the expansion slot to add RAM.

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	Built-in character sets for many languages	Prints on forms; color printing capability; Energy Star compliant
StyleWriter 1200	720 by 360 dpi (black & white); 360 dpi (gray scale)	3 ppm (black & white) 2 ppm (best mode)	1–3 users with GrayShare or EtherTalk adapter	64 TrueType fonts	High-resolution ink-jet printing; GrayShare software; Energy Star compliant
★ Color StyleWriter 1500	720 by 360 dpi (black & white); 360 dpi (gray scale)	3 ppm (black & white) 0.33 ppm (color)	1 user	64 TrueType fonts	Most affordable color ink-jet printer; Energy Star compliant
Color StyleWriter 2200	720 by 360 dpi (black & white); 360 dpi (gray scale and color)	5 ppm (black & white) 0.33 ppm (color)	1 user	64 TrueType fonts	High-quality portable color ink-jet printer; perfect for PowerBook computers; Energy Star compliant

★ Color StyleWriter 2500	720 by 360 dpi (color, and black & white)	5 ppm (black & white) 0.66 ppm (color)	1–3 users with ColorShare or EtherTalk adapter	64 TrueType fonts	Superior-quality color ink-jet printing with true black; low cost per page; ColorShare software; Energy Star compliant
Personal LaserWriter 300	300 dpi	4 ppm	1–3 users with GrayShare	39 TrueType fonts	Most affordable laser printer; GrayShare software; Energy Star compliant
LaserWriter 4/600 PS	600 dpi	4 ppm	1–3 users	64 TrueType and 35 PostScript fonts	Affordable yet advanced PostScript printer; can be shared on a network; Energy Star compliant
LaserWriter Select 360	600 dpi	10 ppm	2–6 users	64 TrueType and 35 PostScript fonts	Optional plain-paper fax capability; autoemulation switching between Macintosh and Windows systems; Energy Star compliant

Apple Printers QuickChart

Model	Resolution (dots per inch)	Printing speed (pages per minute)	Recommended number of users	Fonts	Key features
LaserWriter 16/600 PS	600 dpi with FinePrint; optional PhotoGrade ¹	16 ppm (A4) 17 ppm (letter)	7–10 users	64 TrueType and 35 PostScript fonts	Ethernet support; SCSI ports for hard disk font storage; supports Macintosh and Windows systems; optional plain-paper fax capability; Energy Star compliant
Color LaserWriter 12/600 PS	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; supports Macintosh and Windows systems; Energy Star compliant

¹ Requires minimum 12MB of RAM.

Apple Printer Supplies QuickChart

Printer model	Apple printer supplies	Reorder number	Page/yield
ImageWriter I	Black Ribbon	A2M0077	N/A
ImageWriter II	Black Ribbon	A2M0077	N/A
	Color Ribbon	A9G0331	N/A
ImageWriter LQ	Black Ribbon	A9G0335	N/A
	Color Ribbon	A9G0336	N/A
Scribe	Black Scribe Ribbon	A9G0328	N/A
StyleWriter I	StyleWriter Ink Cartridge	M8041G/C	500 @ 5.0%
StyleWriter II	StyleWriter Ink Cartridge	M8041G/C	500 @ 5.0%
StyleWriter 1200	StyleWriter Ink Cartridge	M8041G/C	500 @ 5.0%
Portable StyleWriter	StyleWriter Ink Cartridge	M8041G/C	500 @ 5.0%
Apple Color Printer	Cyan Ink Cartridge	M6904G/A	600 @ 7.5%
	Magenta Ink Cartridge	M6903G/A	600 @ 7.5%
	Yellow Ink Cartridge	M6902G/A	600 @ 7.5%
	Black Ink Cartridge	M6901G/A	600 @ 7.5%
	Apple Color Printer A3 Paper, 200 pk.	T0547G/A	

Color StyleWriter Pro	Cyan Ink Cartridge	M1949G/A	210 @ 7.5%
	Magenta Ink Cartridge	M1950G/A	210 @ 7.5%
	Yellow Ink Cartridge	M1951G/A	210 @ 7.5%
	High-Capacity Black Ink Cartridge	M3822G/A	600 @ 5.0 %
★ Color StyleWriter 1500	Color StyleWriter Ink Cartridge (C-M-Y)	M4609G/A	100 @ 7.5%
	StyleWriter Ink Cartridge (Black)	M8041G/C	500 @ 5.0%
Color StyleWriter 2200	Black Ink Cartridge (including High-Capacity Black Tank)	M3909G/A	3000 @ 5.0%
	Color Ink Cartridge (including Color and Black Ink Tanks)	M3908G/A	2,000 @ 7.5%
	Black Ink Tank (for Color cartridge), 3-pack	M3912G/A	90 @ 7.5%
	Color Ink Tank (for Color cartridge), 3-pack	M3911G/A	120 @ 7.5%
	High-Capacity Black Ink Tank (for Black Ink Cartridge), 3-pack	M3910G/A	540 @ 5.0%
Color StyleWriter 2400	Color Ink Cartridge (including color and black ink tank)	M3328G/A	2000 @ 7.5%
	Color Ink Tank (for use with Color Ink Cartridge only)	M3329G/A	100 @ 7.5%
	Black Ink Tank (for use with Color Ink Cartridge only)	M3330G/A	100 @ 7.5%
	High-Performance Black Ink Cartridge	M3240G/A	900 @ 5.0%
★ Color StyleWriter 2500	Color Ink Cartridge (including color and black ink tank)	M3328G/A	2000 @ 7.5%
	Color Ink Tank (for use with Color Ink Cartridge only)	M3329G/A	100 @ 7.5%
	Black Ink Tank (for use with Color Ink Cartridge only)	M3330G/A	100 @ 7.5%
	High-Performance Black Ink Cartridge	M3240G/A	900 @ 5.0%
	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	

★ New model—introduced after March 16, 1995.

Apple Printer Supplies QuickChart

Printer model	Apple printer supplies	Reorder number	Page/yield (continued)
All Apple color ink-jet printers	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 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	
LaserWriter and LaserWriter Plus	LaserWriter Toner Cartridge	M0180	4,000 @ 5%
LaserWriter IISC, IINT, IINTX, IIf, IIg	LaserWriter II Toner Cartridge	M6002	4,000 @ 5%
Personal LaserWriter LS, SC, NT, NTR	Personal LaserWriter Toner Cartridge	M0089LL/A	3,000 @ 5%
Personal LaserWriter 300, and 320, LaserWriter 4/600 PS	Personal LaserWriter 300 Series Toner Cartridge	M2045G/A	3,000 @ 5%
LaserWriter Select 300, 310, 360	LaserWriter Select Toner Cartridge	M1960G/A	4,000 @ 5%

LaserWriter Pro 600, 630; LaserWriter 16/600 PS	LaserWriter Pro Toner Cartridge	M2473G/A	6,000 @ 5%
LaserWriter Pro 810	Extended Capacity Cartridge Kit	M3602G/A	13,000 @ 5%
Color LaserWriter 12/600 PS	Color LaserWriter Toner Cartridge, Cyan	M3757G/A	4,000 @ 5%
	Color LaserWriter Toner Cartridge, Magenta	M3760G/A	4,000 @ 5%
	Color LaserWriter Toner Cartridge, Yellow	M3758G/A	4,000 @ 5%
	Color LaserWriter Toner Cartridge, Black	M3756G/A	4,000 @ 5%
	Color LaserWriter Photoconductor Replacement Kit*	M3761G/A	
	Color LaserWriter Fuser Oil	M3755G/A	10,000 @ 5%
	Color LaserWriter Fuser Replacement Kit 110V	M3867G/A	60,000 @ 5%
	Color LaserWriter Fuser Replacement Kit 220V	M42346G/A	60,000 @ 5%
	Color LaserWriter Transparencies, LTR 50 pk.	M3876G/A	
	Color LaserWriter Transparencies, A4 50 pk.	M3877G/A	

* Note: Photoconductor should be replaced after 10,000 continuous color pages or 20,000 continuous monochrome pages.

Power Macintosh 9500/150 (comes with ATI mach64 card)¹

Built-in video (2MB)	16.7 million colors	16.7 million colors	16.7 million colors	16.7 million colors	16.7 million colors	16.7 million colors
Expanded to 4MB	16.7 million colors	16.7 million colors	16.7 million colors	16.7 million colors	16.7 million colors	16.7 million colors

PowerBook 190/66 and 5300/100

Built-in video (512K) at 640 by 480 pixels	256 colors	256 colors	256 colors	256 colors	256 colors	256 colors
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PowerBook 190cs/66 and 5300cs/100

Built-in video (512K) at 640 by 480 pixels	256 colors	256 colors	256 colors	256 colors	256 colors	256 colors
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PowerBook Duo 2300c/100 with PowerBook Duo Dock Plus


At 640 by 480 pixels	256 colors	256 colors	256 colors	256 colors	256 colors	256 colors
At 640 by 400 pixels	32,768 colors	32,768 colors	32,768 colors	32,768 colors	32,768 colors	256 colors

PowerBook 5300c/100

Built-in video (512K or 1MB) at 640 by 480 pixels	256 colors	256 colors	256 colors	256 colors	256 colors	256 colors
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PowerBook 5300ce/117

Built-in video (1MB) at 800 by 640 pixels	256 colors	256 colors	256 colors	256 colors	256 colors	256 colors
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¹ Video support shown is maximum number of colors; actual number of colors varies by resolution on multiple-scan displays.  186

(continued)

Model and Video RAM	Display resolution				
	640 by 480 pixels	800 by 600 pixels	832 by 624 pixels	1,024 by 768 pixels	1,280 by 1,024 pixels
Power Macintosh 7200/100 and 7200/120					
Built-in video (1MB)	16.7 million colors	32,768 colors	32,768 colors	256 colors	—
Expanded to 4MB	16.7 million colors	16.7 million colors	16.7 million colors	16.7 million colors	32,768 colors
Power Macintosh 7600/120, 8500/132, and 8500/150					
Built-in video (2MB)	16.7 million colors	16.7 million colors	16.7 million colors	32,768 colors	256 colors
Expanded to 4MB	16.7 million colors	16.7 million colors	16.7 million colors	16.7 million colors	32,768 colors
Power Macintosh 9500/150 (comes with ATI mach64 card)					
Built-in video (2MB)	16.7 million colors	16.7 million colors	16.7 million colors	16.7 million colors	16.7 million colors
Expanded to 4MB	16.7 million colors	16.7 million colors	16.7 million colors	16.7 million colors	16.7 million colors

Apple Displays QuickChart

Model	Screen size	Screen refresh rate	Resolution	Dimensions (HWD) and weight	Key features
Apple Multiple Scan 14 Display	14-inch (diagonal); 12.4-inch (diagonal viewable image size); shadow mask tube	60–75 hertz (varies by resolution)	Selectable from 640 by 480 pixels to 832 by 624 pixels ¹	14.9 by 14.4 by 15.2 in.; 25.0 lb.	Affordable multimedia display; 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 compliant
Apple Multiple Scan 15 Display	15-inch (diagonal); 13.3-inch (diagonal viewable image size); flat square, screen; shadow mask tube	60–75 hertz (varies by resolution)	Selectable from 640 by 480 pixels to 832 by 624 pixels ¹	16.7 by 15.9 by 17.8 in. ² ; 31.0 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
Apple Multiple Scan 1705 Display	17-inch (diagonal); 15.8-inch (diagonal viewable image size); flat square, screen; shadow mask tube	67–75 hertz (varies by resolution)	Selectable from 640 by 480 pixels to 1,024 by 768 pixels ¹	16.5 by 17.2 by 18.8 in.; 45.2 lb.	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

★ AppleVision 1710 Display	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 ¹	16.8 by 16.2 by 17.6 in.; 49.0 lb.	"New-generation" 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
AppleVision 1710av Display	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 ¹	19.7 by 15.8 by 17.6 in.; 60.0 lb.	"New-generation" 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
Apple Multiple Scan 20 Display	20-inch (diagonal); 19.1-inch (diagonal viewable image size); new-generation Sony Trinitron tube	67–75 hertz (varies by resolution)	Selectable from 640 by 480 pixels to 1,280 by 1,024 pixels ¹	18.7 by 18.7 by 19.7 in.; 66.0 lb.	Largest Apple display available; shows up to two full pages; multiple-scan technology for user-adjustable resolution settings; works with Macintosh computers and PCs running Windows; Energy Star compliant

¹ Resolution range given is for Macintosh computers.

² Two designs available worldwide—dimensions and weight may vary.

★ New model—introduced after October 1, 1995.

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