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Welcome to AppleFacts 11.96—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.
- Represents a cross-reference. For more information, simply turn to the page listed (in this case, page 32).

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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 computers.

In fact, a study of people who use both Macintosh and PCs running Windows 95 rated Macintosh significantly higher in productivity, overall satisfaction, ease of use, and multimedia.*

"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 online 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 are better integrated.
- —DOS, with all its drawbacks, is still inherent to 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

can run some 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 Open Transport, 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—capabilities that are all parts of our OuickTime Media Laver (OTML). 124

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 computers can easily fit into multivendor 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. 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, № 120
- PowerPC processor technology. Every Macintosh computer available today comes with a PowerPC processor. 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 1,850 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. Nearly all
 Power Macintosh computers and some Macintosh Performa
 systems feature PCI expansion slots, rather than the NuBus slots
 used by earlier computers from Apple. PCI offers three main
 advantages: higher performance (up to three times faster), more
 solutions (because 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 either built-in

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

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• WYS/WYG. 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 for your computer monitor. There's no need to purchase, configure, or install video cards.
- 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.
- Built-in video-input/output capabilities. Many Macintosh computers come with standard audiovisual capabilities—you can plug in a camcorder or VCR directly for easy video input and output.

Desktop Computer Systems

Macintosh Performa 5260 *12 and 5260/120



At a glance

- The Macintosh Performa 5260 is Apple's lowest-cost all-in-one PowerPC system. [Note: This computer is not sold in the same channels worldwide as the Power Macintosh 5260/120.]
- It was designed with cost savings in mind, with such features as an optional level 2 cache and an economical 14-inch tilt-and-swivel display, but its 120-megahertz PowerPC 603e processor gives it plenty of power to handle a variety of advanced tasks.
- It offers a number of optional multimedia features, including an internal TV tuner (the Apple TV/FM Radio System) to view television channels in a window on the computer screen and a videoinput card to connect your video camera or VCR.

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

- Processor: PowerPC 603e with integrated math coprocessor and 32K on-chip cache; optional 256K level 2 cache
- · Speed: 120 megahertz
- . Memory: 16MB of RAM, expandable to 64MB
- —8MB on logic board and an 8MB SIMM in one of the two SIMM slots
- · Storage:
- -Internal Apple SuperDrive floppy disk drive
- -Internal 1.2GB IDE hard disk drive
- -Internal 8x-speed CD-ROM drive (some configurations)
- Expansion capabilities: Macintosh LC—compatible processordirect slot; communications slot for either Ethernet or modem

card; video slot for NTSC, PAL, or SECAM video-input card; bay for Apple TV/FM Radio System; 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, stereo sound-input/output ports

• *Displays*: Built-in 14-inch shadow mask display (12.3-inch diagonal viewable image size)

• 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: 45.0 lb. (20.5 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.
- 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.
- Lets you add either an Ethernet card or a high-speed fax modem, through its communications slot.
- Includes an expansion bay for Apple TV/FM Radio System.
- Qualifies for the EPA Energy Star rating (U.S.A.) as an energyefficient product.

Other Macintosh models to consider

If your tasks might require more power and flexibility, you should consider the Macintosh Performa 5400 series, which offers:

- A faster processor (160- or 180-megahertz PowerPC 603e, as opposed to the 120-megahertz PowerPC 603e in the Macintosh Performa 5260).
- A PCI expansion slot.

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At a glance

- The Macintosh Performa 5400 series systems are powerful personal computers with a highly distinctive appearance; some models feature an attractive graphite finish. [Note: These computers are not sold in the same channels worldwide as the Power Macintosh 5400/180.]
- They combine the convenience of an all-in-one system with top-of-the-line performance.
- They offer a number of multimedia options, including an internal TV tuner (the Apple TV/FM Radio System) and a videoinput card to connect your video camera or VCR. [Note: Options included may vary worldwide.]

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

- *Processor:* PowerPC 603e with integrated math coprocessor and 32K on-chip cache; optional 256K level 2 cache
- · Speed: 160 or 180 megahertz
- · Memory: 16MB of RAM, expandable to 136MB
- —8MB on the logic board and an 8MB DIMM in one of the two DIMM slots
- Storage:
- -Internal Apple SuperDrive floppy disk drive
- -Internal 1.2GB hard disk drive
- -Internal 8x-speed CD-ROM drive
- Expansion capabilities: PCI expansion slot; PCI-based communications slot for either Ethernet or modem card; video slot for NTSC, PAL, or SECAM video-input card; bay for Apple TV/FM Radio System; supports six external SCSI devices

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- Ports: Two GeoPort-compatible serial ports, ADB port, optional video connector that supports connection to another display, highperformance 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. (21.0 kg)—will vary based on internal devices installed
- · Other features:
- -Push-button sound controls located on front
- -Infrared remote capabilities
- -Built-in stereo speakers and microphone

Key features

- · Sports a highly distinctive appearance.
- Features the RISC-based PowerPC 603e processor.
- Uses the PCI expansion architecture, for flexibility in configuring the system to provide additional capabilities.
- Offers impressive—and flexible—multimedia capabilities in an innovative and advanced all-in-one design.
- Lets you adjust for maximum viewing convenience, using its tiltand-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.

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- Lets you add either an Ethernet card or a high-speed fax modem, through its communications slot.
- · Includes an expansion bay for Apple TV/FM Radio System.
- Qualifies for the EPA Energy Star rating (U.S.A.) as an energyefficient product.

Other Macintosh models to consider

 For an even more powerful computer in a space-saving minitower design, consider the Macintosh Performa 6400/180 or 6400/200, which feature faster processors.

Macintosh Performa 6360



At a glance

- The Macintosh Performa 6360 is a powerful, versatile, and multimedia-enhanced computer. [Note: This computer is not sold in the same channels worldwide as the Power Macintosh 6360/160.]
- It combines flexible Internet access with a wealth of features that can meet both your current and future needs.

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

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

- *Displays*: Built-in support for most Apple displays; 16-bit color at resolutions of 640 by 480 and 800 by 600 pixels, and 8-bit color at resolutions of up to 1,024 by 768 pixels
- Networking ports: Built-in LocalTalk; optional Ethernet (requires Ethernet card)
- *Dimensions (HWD):* 4.3 by 12.6 by 16.5 inches (10.95 by 32.0 by 41.9 cm)
- Weight: 17.0 lb. (7.7 kg)—will vary based on internal devices installed
- Other features: 28.8-Kbps data/fax/voice modem

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

Other Macintosh models to consider

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

Macintosh Performa 6400/180 and

*18 6400/200



At a glance

- The Macintosh Performa 6400 computers are the most powerful, expandable, and flexible Performa systems available. [Note: These computers are not sold in the same channels worldwide as the Power Macintosh 6400/200.]
- They feature a space-saving mini-tower design—a first for the Performa line—and provide a wealth of multimedia capabilities and expansion options.

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

- Processor: PowerPC 603e with integrated math coprocessor and 32K on-chip cache; 256K level 2 cache (optional on Performa 6400/180)
- Speed: 180 or 200 megahertz
- · Memory: 16MB of RAM, expandable to 136MB
- —8MB on logic board and an 8MB DIMM in one of the two DIMM slots
- · Storage:
- -Internal Apple SuperDrive floppy disk drive
- -Internal 1.6GB or 2.4GB hard disk drive
- -Internal 8x-speed CD-ROM drive
- Expansion capabilities: Two PCI expansion slots (6.88 in.); communications slot for 28.8-Kbps modem (can be replaced with Ethernet card); video slot for NTSC, PAL, or SECAM video card; bay for Apple TV/FM Radio System; supports six external SCSI devices

- Ports: Two serial ports, ADB port, monitor port, high-performance SCSI port, 16-bit stereo sound-input/output ports with integrated subwoofer and SRS 3D surround sound
- *Displays*: Built-in support for most Apple displays; 16-bit color at resolutions of 640 by 480 and 800 by 600 pixels, and 8-bit color at resolutions of 832 by 624 and 1,024 by 768 pixels
- Networking ports: Built-in LocalTalk; optional Ethernet (requires Ethernet card)
- *Dimensions (HWD):* 16.0 by 7.8 by 16.9 inches (40.6 by 19.8 by 42.8 cm)
- Weight: 44.5 lb. (20.0 kg)—will vary based on internal devices installed
- Other features: 28.8-Kbps data/fax/voice modem

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



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

- The Power Macintosh 5260/120 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 120-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 (the Apple TV/FM Radio System) 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: Configurations and availability may vary worldwide.)

- Processor: PowerPC 603e with integrated math coprocessor and 32K on-chip cache; optional 256K level 2 cache
- · Speed: 120 megahertz
- · Memory: 16MB of RAM, expandable to 64MB
- —8MB on logic board and an 8MB SIMM in one of the two SIMM slots
- Storage:
- -Internal Apple SuperDrive floppy disk drive
- -Internal 1.2GB IDE hard disk drive
- -Internal quadruple-speed CD-ROM drive
- Expansion capabilities: Macintosh LC—compatible processordirect slot; communications slot for either Ethernet or modem card; video slot for NTSC, PAL, or SECAM video-input card; bay for Apple TV/FM Radio System; 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, stereo sound-input/output ports
- *Displays*: Built-in 14-inch shadow mask display (12.3-inch diagonal viewable image size)
- 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: 45.0 lb. (20.5 kg)—will vary based on internal devices installed
- · Other features:
- -Headphone jack and push-button sound controls located on front

- · Features the RISC-based PowerPC 603e processor.
- 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. 127
- Lets you add either an Ethernet card or a high-speed fax modem, through its communications slot.
- Includes an expansion bay for Apple TV/FM Radio System.
- Qualifies for the EPA Energy Star rating (U.S.A.) as an energyefficient product.

Other Macintosh models to consider

If your tasks might require more power and flexibility, you should consider the Power Macintosh 5400/180, which offers:

- A faster processor (180-megahertz PowerPC 603e, as opposed to the 120-megahertz PowerPC 603e).
- A PCI expansion slot.

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Power Macintosh 5400/180



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

- The Power Macintosh 5400/180 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 (the Apple TV/FM Radio System) 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: Configurations and availability may vary worldwide.)

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

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

- · Features the RISC-based PowerPC 603e processor.
- Offers impressive—and flexible—multimedia capabilities in an innovative and advanced all-in-one design.
- Includes built-in 10BASE-T Ethernet.
- 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. 437127
- Includes an expansion bay for Apple TV/FM Radio System.
- Comes with the Apple Video System for capturing video images from a TV or VCR, and Apple Video Connector for adding a second monitor. (K-12 channel only)
- Qualifies for the EPA Energy Star rating (U.S.A.) as an energyefficient product.

Power Macintosh 6360/160



At a glance

- The Power Macintosh 6360/160 is a powerful, versatile, and multimedia-enhanced computer.
- It combines flexible Internet access with a wealth of features that can meet both your current and future needs.

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

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

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

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

Other Macintosh models to consider

• If you want even more power in a convenient, space-saving mini-tower design, you should consider the Power Macintosh 6400/200, which features a 200-megahertz processor.



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

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

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

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

- Networking ports: Built-in LocalTalk and Ethernet
- *Dimensions (HWD)*: 16.0 by 7.8 by 16.9 inches (40.6 by 19.8 by 42.8 cm)
- Weight: 44.5 lb. (20.2 kg)—will vary based on internal devices installed

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

Power Macintosh 7200/120



At a glance

- The Power Macintosh 7200/120 combines 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; 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
- -Internal 8x-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 1,152 by 870 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

- · 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 16 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 or 4MB of VRAM).
- Is upgradable to the Power Macintosh 7600/132.
- 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 7600/132, which offers:

- A faster processor (132-megahertz PowerPC 604, compared with the 120-megahertz PowerPC 601 processor for the Power Macintosh 7200/120).
- 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 •30 Compatible



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 cache; Pentium
- Speed: 120-megahertz PowerPC processor; 100-megahertz Pentium processor
- Memory: 16MB of RAM, expandable to 256MB (Mac OS); 8MB of RAM, expandable to 72MB (Pentium)
- -Four 168-pin DIMM slots
- · Storage:
- -Internal Apple SuperDrive floppy disk drive
- -Internal 1.2GB hard disk drive
- -Internal 8x-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

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- Displays: Built-in support for most Apple displays; supports displays of up to 21 inches (with 4MB of VRAM); PC Compatibility Card includes 1MB of VRAM and supports accelerated SVGA video
- 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

- · 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 PCI slot is occupied by the PC Compatibility Card).
- Includes built-in Ethernet (10BASE-T and 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 7600/132, which features a 132-megahertz PowerPC 604 processor and is designed for easy processor upgrades. Like all PCI-equipped Macintosh computers, the Power Macintosh 7600/132 can accommodate either of the PC Compatibility Cards.

Power Macintosh 7600/132



At a glance

- The Power Macintosh 7600/132 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 132 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 cache
- Speed: 132 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 8x-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, dualchannel 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 42.8 cm)
- Weight: 22.0 lb. (9.9 kg)—will vary based on internal devices installed

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Key features

- Features the RISC-based PowerPC 604 processor.
- Allows for easy processor upgrades as faster processors become available, up to 250 megahertz.
- 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 8500/150 or 8500/180, which offer:

- A faster processor (150-megahertz PowerPC 604 or 180-megahertz PowerPC 604e compared with a 132-megahertz PowerPC 604 for the Power Macintosh 7600/132).
- · Video-output capability.

Power Macintosh 8500/150 and *34 8500/180



At a glance

- The Power Macintosh 8500/150 and 8500/180 are powerful, feature-rich systems that enable you to integrate media easily.
- The RISC-based 150-megahertz PowerPC 604 or 180-megahertz PowerPC 604e processor gives these computers the power they need to perform complex tasks rapidly.
- The Power Macintosh 8500/150 and 8500/180 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 or 604e RISC with integrated math coprocessor and 32K (PowerPC 604) or 64K (PowerPC 604e) on-chip cache: 256K level 2 cache
- · Speed: 150 or 180 megahertz
- Memory: 16MB or 32MB 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 8x-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 highperformance 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 or 604e processor, which provides unprecedented power for your Power Macintosh computer.
- Allows for easy processor upgrades as faster processors become available, up to 250 megahertz.
- 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 16-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 9500/200 or 9500/180MP, which offer:

- A faster processor (180- or 200-megahertz PowerPC 604e compared with a 150- or 180-megahertz PowerPC 604 or 604e).
- Twice the flexibility—six PCI expansion slots, as opposed to three for the Power Macintosh 8500/150 or 8500/180.
- Up to 768MB of DRAM expansion.

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Power Macintosh 9500/180MP and *36 9500/200



At a glance

 The Power Macintosh 9500/180MP and 9500/200 are the most flexible, expandable, high-performance desktop computers available from Apple.

 The RISC-based PowerPC 604e processor running at 180 or 200 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 threedimensional images—to the desktop.

 The Power Macintosh 9500/180MP offers multiprocessing (MP), with two PowerPC 604e processors for added computing power.

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

- · Processor: PowerPC 604e RISC with integrated math coprocessor and 64K on-chip cache; 512K level 2 cache
- · Speed: 180 or 200 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 8x-speed CD-ROM drive
- -Supports one additional 3.5-inch storage device

- 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 (2MB of VRAM, upgradable to 4MB)
- 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

- Features the RISC-based PowerPC 604e processor, which provides unprecedented power for your Power Macintosh computer.
- Allows for easy processor upgrades as faster processors become available, up to 250 megahertz.
- 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.
- With 4MB of VRAM, the included PCI graphics card (most configurations) supports 24 bits per pixel on 20-inch color monitors.

Desktop System Upgrades



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 100-megahertz 586 processor with 128K level 2 cache, and a 12-inch card that features a 100-megahertz Pentium 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 DOS and Windows 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 to upgrade the Power Macintosh 8100 and Macintosh Quadra 800 and 840av 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, or a PowerPC 604e running at 180 megahertz. Processor card required with purchase of logic board.

Desktop System Accessories

General Macintosh accessories

· Macintosh 4MB and 8MB Memory Expansion Kits

Macintosh LC 580; Macintosh Performa 5200CD, 5300CD series, 5400, 6200CD series, 6300 series, and 6400 series; and Power Macintosh 5200/75 LC, 5260/120, 5400/180, 6200/75, 6360/160, and 6400/200

- Apple Video System
- Apple TV/Video System (except Macintosh LC 580 and Macintosh Performa 580)
- Apple TV/FM Radio System
- 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, 7500, 7600, and 8500 systems

 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 (except 5200, 5300, and 5400 series systems) or Macintosh Performa 6100, 6360, or 6400 series system into an intelligent telephone, digital answering machine, fax, and high-speed modem. It consists of the following components:

- · GeoPort Telecom Adapter II
- Apple Telecom 3.0 software, including Apple Phone, Apple Fax, and Apple Address Book
- SITcomm software from Aladdin Systems, Inc.
- · AppleCom Lite terminal-emulator software

AppleCD 600i AppleCD 600e



At a glance

- 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): AppleCD 600e—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: AppleCD 600e—5.7 lb. (2.6 kg); AppleCD 600i—2.1 lb. (.95 kg)

- 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 engineered specifically 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

- 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

- 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.

Apple Keyboards and Mouse

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 terminalemulation 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.

Portable Computers 47

The PowerBook Advantage

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The PowerBook advantage: Truly portable computing

• Apple understands the difference between portable computing and desktop computing. That's why Apple PowerBook computers are not just miniature desktop computers—they're designed to fit the specific lifestyle and usage patterns of 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, most PowerBook computers now come equipped with both a PC Card slot and an expansion bay. These features let you customize your system to meet your needs—for example, you can add a wired or wireless modem and an additional hard disk drive or magneto-optical drive. In addition, all PowerBook computers comply with the Environmental Protection Agency's Energy Star guidelines for energy conservation.

 PowerBook computers currently come in two series: the PowerBook 1000 series and the PowerBook 2000 series. Each series offers a unique set of capabilities, allowing PowerBook computers to meet a range of needs. Apple also plans to introduce a new high-performance, PCI-based PowerBook series in the first half of 1997.

★ The PowerBook 1000 series

The Macintosh PowerBook 1400cs/117, 1400c/117, and 1400c/133 are the newest Macintosh PowerBook computers from Apple. These notebook systems take Apple's traditional strengths excellence in design and unparalleled ease of use—to new levels. by incorporating the latest advances in portable computing technology. Designed to suit users' lifestyles and to meet their individual needs, these "portables with personality" sport a sleek new contoured design, including a flip-up keyboard that makes it easy to access and customize the system. They also offer a unique design feature: They come with a clear exterior panel called a BookCover that lets users personalize these systems' appearance to suit their individuality by using any of a variety of colorful, interchangeable inserts. And the new PowerBook 1000 series provides more than just a stylish exterior-it also features an internal 6x-speed CD-ROM drive (a removable module that's optional on one configuration and standard on the rest), as well as high-performance (117-megahertz and 133-megahertz) PowerPC processors, a large (11.3 inches) high-quality display (dual-scan on the PowerBook 1400cs/117; active-matrix on the PowerBook 1400c/117 and 1400c/133), flexible memory expansion, and more.

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 variety 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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At a glance

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

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

- Processor: PowerPC 603e with integrated math coprocessor and 32K on-chip cache
- Speed: 117 megahertz
- . Memory: 12MB or 16MB of RAM, expandable to 64MB
- -Includes one open memory expansion slot for user upgradability
- · Storage:
- -Internal 1.4MB Apple SuperDrive floppy disk drive
- -Internal 750MB hard disk drive
- -Internal 6x-speed CD-ROM drive (depending on configuration)
- Expansion capabilities: Memory expansion slot (allows "piggy-backing" of up to two memory cards); PC Card slot for two Type I or Type II PC Cards or one Type III PC Card; expansion bay for CD-ROM drive or third-party solutions, such as a second hard disk drive, Zip drive, or magneto-optical drive; internal expansion slot for video-output or Ethernet cards
- Ports: Serial port, ADB port, power adapter port, SCSI port
- Display: 11.3-inch (diagonal) dual-scan color SVGA display (thousands of colors)

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- Battery: 30 watt-hour nickel-metal-hydride; average life: 2 to 4 hours
- *Sound:* 16-bit, CD-quality stereo sound-input/output ports; integrated microphone and speaker
- Networking: Built-in LocalTalk port; built-in infrared technology supports AppleTalk protocol; Ethernet networking through PC Cards or optional internal expansion card (third party)
- *Dimensions (HWD)*: 2.0 by 11.5 by 9.0 inches (5.2 by 29.2 by 22.5 cm)
- *Weight:* 6.7 lb. (3.0 kg) with floppy disk drive installed; 7.0 lb. (3.15 kg) with CD-ROM drive installed
- Security: Security slot for locking (requires third-party cable); password security software
- · Other features:
- -Full-size extended keyboard, palm rests, and Apple trackpad
- -Preinstalled software, including productivity, communications, and Internet access software

Key features

- Uses a high-performance, 117-megahertz PowerPC 603e processor, so it can handle even computation-intensive tasks with ease.
- Has a built-in, 11.3-inch dual-scan display.
- Includes a removable, modular, internal 6x-speed CD-ROM drive (depending on configuration).
- Features a sleek, contoured shape and a variety of colorful panels that let you change the appearance of your computer.
- Lets you flip the keyboard forward for easy access to the system.
- Lets you add Ethernet networking, a wired or wireless modem, RAM, storage, or other capabilities through PC Cards.
- Comes with productivity tools, including ClarisWorks and Claris Organizer, the Apple Internet Connection Kit, and software for remote access and cross-platform compatibility.
- Qualifies for the EPA Energy Star rating (U.S.A.).

Other PowerBook models to consider

• The Macintosh PowerBook 1400c/117 features an active-matrix color SVGA display and a larger hard disk drive.

Macintosh PowerBook 1400c/117



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At a glance

- The PowerBook 1400c/117 is an advanced, CD-ROM—equipped color (active-matrix display) portable that offers a variety of expansion options.
- It features a sleek, contoured new design that not only makes it easy to access the system for enhancement or service, but also allows for personal customization through a variety of colorful, interchangeable panels.

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

- Processor: PowerPC 603e with integrated math coprocessor and 32K on-chip cache
- Speed: 117 megahertz
- Memory: 16MB of RAM, expandable to 64MB
- -Includes one open memory expansion slot for user upgradability
- · Storage:
- -Internal 1.4MB Apple SuperDrive floppy disk drive
- -Internal 1GB hard disk drive
- -Internal 6x-speed CD-ROM drive
- Expansion capabilities: Memory expansion slot (allows "piggybacking" of up to two memory cards); PC Card slot for two Type I or Type II PC Cards or one Type III PC Card; expansion bay for CD-ROM drive or third-party solutions, such as a second hard disk drive, Zip drive, or magneto-optical drive; internal expansion slot for video-output or Ethernet cards
- Ports: Serial port, ADB port, power adapter port, SCSI port
- Display: 11.3-inch (diagonal) active-matrix color SVGA display (thousands of colors)

- Battery: 30 watt-hour nickel-metal-hydride; average life: 2 to 4 hours
- Sound: 16-bit, CD-quality stereo sound-input/output ports; integrated microphone and speaker
- Networking: Built-in LocalTalk port; built-in infrared technology supports AppleTalk protocol; Ethernet networking through PC Cards
- Dimensions (HWD): 2.0 by 11.5 by 9.0 inches

(5.2 by 29.2 by 22.5 cm)

- *Weight:* 6.6 lb. (3.0 kg) with floppy disk drive installed; 6.9 lb. (3.1 kg) with CD-ROM drive installed
- Security: Security slot for locking (requires third-party cable); password security software
- · Other features:
- -Full-size extended keyboard, palm rests, and Apple trackpad
- -Preinstalled software, including productivity, communications, and Internet access software

Key features

- Uses a high-performance, 117-megahertz PowerPC 603e processor, so it can handle even computation-intensive tasks with ease.
- · Has a built-in, 11.3-inch active-matrix display.
- Includes a removable internal 6x-speed CD-ROM drive.
- Features a sleek, contoured shape and a variety of colorful panels that let you change the appearance of your computer.
- Lets you flip the keyboard forward for easy access to the system.
- Lets you add Ethernet networking, a wired or wireless modem, RAM, storage, or other capabilities through PC Cards.
- Comes with productivity tools, including ClarisWorks and Claris Organizer, the Apple Internet Connection Kit, and software for remote access and cross-platform compatibility.
- Qualifies for the EPA Energy Star rating (U.S.A.).

Other PowerBook models to consider

 The Macintosh PowerBook 1400c/133 has a faster processor (133 megahertz compared with 117 megahertz for the PowerBook 1400c/117).

Macintosh PowerBook 1400c/133



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At a glance

- The PowerBook 1400c/133 is a CD-ROM—equipped PowerBook that features a high-quality, active-matrix color display, and offers a number of upgrade and expansion options.
- It features a sleek, contoured new design that not only makes it easy to service, but also allows for personal customization through colorful, interchangeable panels.

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

- *Processor:* PowerPC 603e with integrated math coprocesor and 32K on-chip cache; 128K level 2 cache
- · Speed: 133 megahertz
- Memory: 16MB of RAM, expandable to 64MB
- -Includes one open memory expansion slot for user upgradability
- · Storage:
- -Internal 1.4MB Apple SuperDrive floppy disk drive
- -Internal 1GB hard disk drive
- -Internal 6x-speed CD-ROM drive
- Expansion capabilities: Memory expansion slot; PC Card slot for two Type I or Type II PC Cards or one Type III PC Card; expansion bay for CD-ROM drive or third-party solutions, such as a second hard disk drive or magneto-optical drive
- Ports: Serial port, ADB port, video-output port (optional), power adapter port, SCSI port
- *Display:* 11.3-inch (diagonal) active-matrix color SVGA display (thousands of colors)
- Battery: High-capacity Type III nickel-metal-hydride; average life: 2 to 5 hours

- *Sound:* Stereo sound-input/output ports; integrated microphone and speakers
- 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 9.0 inches (5.2 by 29.2 by 22.5 cm)
- Weight: 6.4 lb. (2.9 kg) with floppy disk drive installed
- Security: Security slot for locking (requires third-party cable; secures battery and expansion bay)
- · Other features:
- -Full-size keyboard, palm rests, and Apple trackpad
- Preinstalled software, including productivity, communications, and Internet access software

- Uses a high-performance, 133-megahertz PowerPC 603e processor, so it can handle even computation-intensive tasks with ease.
- Has a built-in, 11.3-inch active-matrix display that supports thousands of colors.
- Includes a removable internal 6x-speed CD-ROM drive.
- Features a sleek, contoured shape and a variety of colorful panels that let you change the appearance of your computer.
- Lets you flip the keyboard forward for easy access to the system.
- Lets you add Ethernet networking, a wired or wireless modem, RAM, storage, or other capabilities through PC Cards.
- Includes an expansion bay for a CD-ROM drive, a floppy disk drive, or third-party solutions such as an additional hard disk, Zip drive, or magneto-optical storage device.
- Comes with productivity tools, including ClarisWorks and Claris Organizer, the Apple Internet Connection Kit, and software for remote access and cross-platform compatibility.
- Qualifies for the EPA Energy Star rating (U.S.A.).



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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.

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 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 Macintosh PowerBook 1400c/117 or 1400c/133 features a higher-performance processor (117 megahertz or 133 megahertz versus 100 megahertz) and a stylish new design, as well as a larger display and IR technology for easy, wireless file exchange with similarly equipped systems.

PowerBook Duo Docking Products

PowerBook Duo Dock Plus

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

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, owners of these computers will receive the high-performance PowerPC 603e processor, 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 appropriate software, even applications for MS-DOS 6.2 and Windows 95.

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.

PowerBook 190 series upgrades

Several other upgrades are available for the PowerBook 190 computers.

- 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)

★ PowerBook 1000 series expansion

- · Macintosh PowerBook 8MB RAM Expansion Card
- Macintosh PowerBook 6x-speed CD-ROM Module
- Macintosh PowerBook 8-bit Color Video-out Upgrade Kit Other expansion capabilities are provided by third parties.

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Macintosh PowerBook computers

- · Apple HDI-30 SCSI System Cable
- · Apple HDI-30 SCSI Disk Adapter
- · Macintosh PowerBook Power Adapter
- · Macintosh PowerBook 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 653

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 a retired Macintosh system, turn on file sharing, and designate it as a server. Or you could install an older generation of AppleShare print and file server software. Then, if the performance isn't at the level you want, you could start upgrading the processor, the memory, the hard disk drives, the backup tape drive, the network ports, the software, and so on.

You'll get better results, more affordably, 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 roundthe-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 services. Yet despite their powerful nature, they are exceptionally easy to 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 8550/200 to the powerful AIX-based Network Server 500/132, 700/150, and 700/200,

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^{*}Support details may vary by region.

built from the ground up as servers, engineered to provide the ultimate in performance and 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 solutions.

★ The Workgroup Server 7250/120 and 8550/200

These servers represent a further 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 faster CD-ROM drives (8x speed) and larger hard disk drives. Like their predecessors, the Workgroup Server 7250/120 and 8550/200 are also available with any of three high-value software bundles, including one with all of the software needed to publish your information on the World Wide Web.

* The Network Server 500 and 700

The Network Server 500/132, 700/150, and 700/200 are the flagships of Apple's line of servers. These products were designed from the ground up as servers—created specifically to answer the concerns 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 Servers 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.

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 2GB hard disk drive
- -Space for one additional hard disk drive
- -Internal 8x-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, ADB port, video-output port, highperformance 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 any of three high-value software bundles:
- —One with the following software for administration, reliability, productivity, and performance: 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.
- —One with all of the above software, as well as AppleShare 4.2.1 server software and Server Manager administration software.
- —One with all of the software needed to make your information accessible on the World Wide Web. № 134

Other models to consider

• If you need an exceptionally powerful, reliable server, you should consider the Workgroup Server 8550/200, which is Apple's highest-performance server based on the easy-to-use Mac OS and is available in a configuration that includes a DAT drive.



At a glance

- The Workgroup Server 8550/200 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 604e processor, on a CPU card that can be easily replaced as more powerful processors become available.

Specifications

- *Processor*: PowerPC 604e RISC with integrated math coprocessor and 32K on-chip cache; 512K level 2 cache
- · Speed: 200 megahertz
- Memory: 24MB or 32MB of RAM, expandable to 512MB
- —Eight 168-pin DIMM slots
- · Storage:
- -Internal Apple SuperDrive floppy disk drive
- -Internal 2GB hard disk drive
- -Bracket and cable for a second internal drive
- -Internal 8x-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, 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)

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 Weight: 36.8 lb. (16.7 kg)—will vary based on internal devices installed

Key features

- Features the RISC-based PowerPC 604e 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 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, Apple's enhanced communications standard.
- Includes Apple RAID Software, for increased data protection and performance.
- · Comes with any of three high-value software bundles:
- —One with the following software for administration, reliability, productivity, and performance: 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.
- —One with all of the above software, as well as AppleShare 4.2.1 server software and Server Manager administration software.
- —One with all of the software needed to make your information accessible on the World Wide Web. 134

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 AIX-based Network Servers from Apple: the Network Server 500/132, 700/150, or 700/200.

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.

Specifications

- *Processor*: PowerPC 604 RISC with integrated math coprocessor and 32K on-chip cache; 512K level 2 cache
- CPU Speed: 132 megahertz
- Memory: 32MB of parity RAM, expandable to 512MB
- -Eight 168-pin DIMM slots
- · Storage:
- -Internal Apple SuperDrive floppy disk drive
- -Internal quadruple-speed CD-ROM drive
- -2GB Fast/Wide SCSI-2 hard disk drive
- -Space for six internal hard disk drives, for up to 54GB of storage
- —Up to 1 terabyte of hard disk capacity using external disk arrays and subsystems
- —Optional internal 4GB DAT-2 tape drive or 20GB 8mm tape drive
- Expansion capabilities: Six PCI slots support Ethernet, FastEthernet, and FDDI networks; PCI RAID card

- Ports: Two serial ports, 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 product 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.
- Provides the ability to upgrade to symmetric multiprocessing (SMP).
- · 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 IBM's AIX operating system for great cross-platform capability and compatibility with thousands of existing UNIX applications.

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.



At a glance

- The Network Server 700/150 is a 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.

Specifications

- *Processor:* PowerPC 604 RISC with integrated math coprocessor and 32K on-chip cache; 1MB level 2 cache
- · CPU Speed: 150 megahertz
- Memory: 32MB or 48MB of RAM, expandable to 512MB
- -Eight 168-pin DIMM slots
- · Storage:
- -Internal Apple SuperDrive floppy disk drive
- -Internal quadruple-speed CD-ROM drive
- -4GB Fast/Wide SCSI-2 hard disk drive
- —Space for eight internal hard disk drives, for up to 65GB of storage
- —Up to 1 terabyte of hard disk capacity using external disk arrays and subsystems
- -Optional internal 4GB DAT-2 tape drive or 20GB 8mm tape drive
- Expansion capabilities: Six PCI slots support Ethernet, FastEthernet, and FDDI networks; PCI RAID card

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- *Ports*: Two serial ports, 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

- Features an innovative product 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.
- Provides the ability to upgrade to symmetric multiprocessing (SMP).
- · 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 IBM's AIX operating system for great cross-platform capability and compatibility with thousands of existing UNIX applications.

Other models to consider

 If you need even higher performance, you should consider the Network Server 700/200, which features a faster processer (200 megahertz versus 150 megahertz).



At a glance

- The Network Server 700/200 is Apple's most powerful and expandable high-performance 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 604e processor on a CPU card that can be easily replaced as more powerful processors become available.

Specifications

- *Processor*: PowerPC 604e RISC with integrated math coprocessor and 64K on-chip cache; 1MB level 2 cache
- CPU speed: 200 megahertz
- Memory: 48MB of RAM, expandable to 512MB
- -Eight 168-pin DIMM slots
- · Storage:
- -Internal Apple SuperDrive floppy disk drive
- —Internal 8x-speed CD-ROM drive
- -Two internal 4GB Fast/Wide SCSI-2 hard disk drives
- —Space for eight internal hard disk drives, for up to 65GB of storage
- —Up to 1 terabyte of hard disk capacity using external disk arrays and subsystems
- —Optional internal 4GB DAT-2 tape drive or 20GB 8mm tape drive

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- Expansion capabilities: Six PCI slots support Ethernet, FastEthernet, and FDDI networks; PCI RAID card
- Ports: AAUI Ethernet port, SCSI-1 port, ADB port, VGA videooutput port, two serial ports, stereo sound-input/output ports
- Displays: Built-in support for all Apple displays
- *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

- Is the highest-performance, most expandable server available from Apple.
- Features an innovative product 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 604e processor, which enables it to handle computation-intensive tasks with exceptional speed, and is designed for easy processor upgrades.
- Provides the ability to upgrade to symmetric multiprocessing (SMP).
- · Has built-in Ethernet capability.
- Features six PCI expansion slots, for flexibility in configuring the server to provide additional capabilities.
- Runs IBM's AIX operating system for great cross-platform capability and compatibility with the thousands of existing UNIX applications.

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. **80

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

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

- Apple Ethernet Thin Coax Transceiver. This connects all Macintosh computers or Ethernet cards equipped with an Apple Ethernet port to Thin Coax Ethernet networks using thin coaxial cable.
- Apple Ethernet AUI Adapter. This adapter adds an IEEE 802.3
 AUI to any Macintosh computer or Ethernet card equipped with
 an Apple Ethernet port, and can be used to connect to external
 transceivers for use with fiber-optic, thick coaxial, and other
 Ethernet media.
- Apple Ethernet LC Card. This card comes with an Apple Ethernet port and connects Macintosh Color Classic; Macintosh LC, LC II, LC III, LC 475, and LC 520; Macintosh Quadra 605; and most Macintosh Performa computers to any Ethernet network.
- Apple Ethernet LC Twisted-Pair Card. This card connects Macintosh Color Classic; Macintosh LC, LC II, LC III, LC 475, and LC 520; Macintosh Quadra 605; and most Macintosh Performa computers to IEEE 802.3 10BASE-T Ethernet networks. It has a built-in RJ-45 connector, which allows you to connect directly to a 10BASE-T hub. No transceiver required.
- Apple Ethernet 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 builtin 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 8500/150 or the Workgroup Server 8550/200, 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 8500/150 or the Workgroup Server 8550/200, 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.

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.

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• 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 8500/150 or 9500/200) to an IEEE 802.5 Token Ring network running at either 4 or 16 megabits. This high-performance card is suitable for both servers and client workstations.

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.

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 (IAN). 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.

Printers, Displays, & Imaging Products

The Apple Printer Advantage

Apple printers come complete

All essential features are built in. 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 many 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 2.1. 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 class-room, personal, and professional use.
- It's ideal for printing on continuous-feed paper, such as payroll checks or preprinted forms.

- 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 pager
- -Energy Star compliant

- 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 continuousfeed 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

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.

- 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

- 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 80

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.

- *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

- 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 ■80

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.

- 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 bandling: 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)

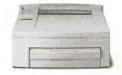
- · Weight: 6.9 lb. (3.1 kg)
- Recommended number of users: One; can support multiple users through ColorShare or an EtherTalk adapter

- Provides outstanding resolution for both color and true black text (720 by 360 dpi).
- Features optimized ink density, so you get consistent highquality 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.
- Lets you print impressive photorealistic color images, using the Apple Color StyleWriter 2500 Color PhotoGrade Print Kit.
- · 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 580
- · Apple Color StyleWriter 2500 Color PhotoGrade Print Kit

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.

- · 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

- 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 12/640 PS



At a glance

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

- Resolution: 600 dots per inch with FinePrint; PhotoGrade (requires a minimum of 12MB of RAM)
- · Printing speed: 12 pages per minute
- · Processor: 30-megahertz AMD 29240 RISC
- . Memory: 4MB, expandable to 24MB
- 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 universal cassette and 80-sheet multipurpose tray (can hold envelopes); optional 500-sheet cassette and feeder and envelope cassette
- Connectivity and networking: Ethernet port supports
 AppleTalk, TCP/IP, and Novell NetWare IPX protocols; LocalTalk
 port supports AppleTalk protocol; bidirectional parallel port
- Dimensions (HWD): 9.25 by 15.94 by 16.65 inches (23.5 by 40.5 by 42.3 cm)
- · Weight: 26.5 lb. (12.0 kg)
- · Recommended number of users: Three to twenty



· Other features:

-Extensive paper-handling options

-Includes Adobe Type Manager and Adobe Acrobat Reader (currently available only in the United States) software for Mac OS and Windows systems

-Energy Star compliant

Key features

 Provides 600-dot-per-inch resolution, at a rapid 12 pages per minute, for exceptional print quality-fast.

 Prints on a wide variety of paper and other media, from A4 paper to postcard stock (paper weights of 16 to 50 pounds), as well as on transparencies, envelopes, and more.

 Supports several easy-to-install printer options, including duplex printing for professional-quality double-sided output without the use of a copier, as well as a 500-sheet cassette and feeder, an envelope cassette, and a face-up output tray.

· Provides flexible networking; supports many platforms, including the Mac OS, Windows 3.1, Windows 95, Windows NT, and

UNIX.

· Comes with both Adobe PostScript Level 2 and PCL 5 with autoemulation switching, and can be easily connected to all of the most popular network types.

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

efficient product.

Accessories

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

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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.

- Resolution: 600 dots per inch standard with FinePrint;
 PhotoGrade (requires a minimum of 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

- 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 12/660 PS



At a glance

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

Specifications

- · Resolution: 600 dots per inch with Color PhotoGrade
- Printing speed: 12 pages per minute for black and white;
 3 pages per minute for color;
 1 page per minute for color transparencies
- · Processor: 30-megahertz AMD 29030 RISC
- Memory: 16MB, expandable to 40MB with Apple Contone Compression technology
- · Supported languages: Adobe PostScript Level 2
- Fonts: 64 scalable TrueType and 39 PostScript fonts
- Paper tray size: Standard 250-sheet feeder and 100-sheet multipurpose tray; optional universal 250-sheet feeder
- Connectivity and networking: Ethernet port supports
 AppleTalk, TCP/IP, and Novell NetWare IPX protocols; LocalTalk
 port supports AppleTalk protocol; IEEE 1284 bidirectional parallel
 port; internal and external SCSI ports for hard disk storage
- *Dimensions (HWD):* 18.0 by 21.0 by 23.0 inches (45.7 by 53.3 by 58.4 cm)
- Weight: 110 lb. (49.5 kg)
- Recommended number of users: Can accommodate workgroups of 10 to 20

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

- · 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.

Accessories

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

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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.

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.

Image Capture

Apple scanners

Combining high quality with extraordinary ease of use, the Apple Color OneScanner 600/27 and 1200/30 come with OneScanner Dispatcher software, a powerful application that not only makes scanning a quick and easy process, but also lets you edit, print, fax, copy, OCR, archive, and retrieve images with Drag and Drop simplicity. And the Color OneScanner 1200/30 includes a special version of Xerox TextBridge OCR software (version 3.02), which allows for automatic conversion of printed text into HTML. It also includes a Photoshop acquire module, which lets you scan directly into Adobe Photoshop and compatible software.

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.

QuickTime image capture and the Internet

Apple imaging products—as well as our software support for media-rich offerings through the QuickTime Media Layer—are also helping to fuel the move away from text-only online documents to richer, more visual Internet offerings. For example, the QuickTake 150 digital camera provides an ideal means of enhancing web offerings with photographs.

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

- · Lets you change viewing modes without restarting your system.
- Incorporates front-panel stereo speakers and a headphone jack.
- · Features a tilt-and-swivel base for adjustable viewing.
- · Qualifies for the EPA Energy Star rating (U.S.A.).

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^{*} Resolutions supported vary by computer.

Apple Multiple Scan 15av Display



At a glance

- This is a high-quality, yet affordable, half-page display that provides a larger viewing area than many other 15-inch monitors, with a high-quality screen and integrated front-facing CD-quality speakers.
- It features a sleek new design and offers a host of advanced features to complement the capabilities of your Macintosh Performa (especially the Performa 6400 series), Power Macintosh, or Macintosh PowerBook system.

Specifications

· Screen size: 15 inches (diagonal)

Viewable image size: 13.75 inches (diagonal)

• Resolution/screen refresh rate: 640 by 480 pixels at 67 hertz, 800 by 600 pixels at 60 and 72 hertz, and 1,024 by 768 pixels at 60, 72, and 75 hertz (Mac OS); 640 by 480 pixels at 60 hertz (VGA), 800 by 600 pixels at 72 hertz (SVGA), and 1,024 by 768 pixels at 60, 72, and 75 hertz (SVGA) [requires adapter for Windows]

· Dot/stripe pitch: 0.28-mm dot pitch

- Audio response: 50 Hz-20 KHz, 2 watts, SPL=82 DB @ 1 KHz, 1 meter
- · Picture tube: Flat, square, shadow mask
- Dimensions (HWD) and Weight: 15.3 by 14.8 by 15.8 inches (38.3 by 37.0 by 39.5 cm); 30.0 lb. (13.5 kg)

Key features

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

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At a glance

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

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.
- Lets you change viewing modes without restarting your system.
- Features a tilt-and-swivel base for adjustable viewing.
- Qualifies for the EPA Energy Star rating (U.S.A.).

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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, 7600/132, and 8500 series.

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: 0.25-mm aperture grille 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)

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.
- 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 multimedia—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 8500/150 or 8500/180.

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: 0.25-mm aperture grille 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.
- · Qualifies for the EPA Energy Star rating (U.S.A.).

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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: 0.25-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)

Key features

- Provides unprecedented image quality for a monitor of this size, by using a "new-generation" Sony Trinitron tube.
- Lets you change viewing modes without restarting your system.
- Enables two-page viewing with minimal document scrolling for increased productivity.
- 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, optical character recognition (OCR), editing, printing, faxing, copying, archiving, and retrieving images.

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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 (A4; 21.6 by 29.2 cm)
- Scanning engine speed: Full-page scan, less than 20 seconds; preview scan, less than 6 seconds
- · Interface: SCSI II
- File formats: Supports PICT, TIFF, JPEG, EPS, and Photoshop
 2.5; compatible with most popular word processing, presentation, image editing, and page-layout software for the Macintosh
- System requirements: Macintosh 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 OCR software version 3.0 (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-manipula-

tion 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

Apple Color OneScanner 1200/30



At a glance

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

 It comes with OneScanner Dispatcher software version 2.0. This powerful, easy-to-use application helps users take advantage of the scanner's many functions-including scanning, OCR, edit-*110 ing, printing, faxing, copying, archiving, and retrieving images—to

easily manage their documents and images.

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

Specifications

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

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

Key features

• Includes OneScanner Dispatcher 2.0 software, which handles a multitude of scanning-related functions and provides seamless integration with word processing, presentation, graphics, pagelayout, and web-authoring applications.

• Comes with a special version of industry-acclaimed OCR software—version 3.0h of Xerox TextBridge, exclusive to Apple's OneScanner product line—which not only saves you time by eliminating the need to reenter text, but also offers easy OCR-to-HTML conversion of text documents, for streamlined web authoring.

- Offers true negative-to-positive conversions through an optional transparent media adapter.
- Comes with powerful image-enhancement plug-in filters.
- Features an attractive, compact design that fits easily into even the smallest work space.

Accessories

- · 20-sheet automatic document feeder
- · Transparent media adapter

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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: 1/30 to 1/175 second; 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

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- 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 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 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 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 onscreen 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

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- · Ports: AC power port, serial port
- Display: 3.8- by 2.8-inch transflective LCD display with EL backlight; nonglare writing surface
- Battery: Four AA alkaline batteries (included); optional MessagePad Rechargeable Battery Pack (nickel-cadmium), MessagePad Battery Booster Pack (requires eight AA alkaline batteries), MessagePad Charging Station
- Communications: Built-in LocalTalk port; point-to-point infrared data exchange 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 130

- MessagePad Power Adapter
- · MessagePad Rechargeable Battery Pack
- · MessagePad Charging Station
- · MessagePad Telescoping Pen
- MessagePad Carrying Case
- · 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 1.6.1

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 & Technologies

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Apple Software and Technologies

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 more than 50 new features that improve printing, collaboration, document layout, multimedia, and overall productivity. Highlights include:

- Powerful, productivity-enhancing desktop capabilities.
 Enhancements to the Finder provide improved Find File commands, security features such as application and System Folder locking, and drag-and-drop capabilities for moving text and graphics between applications.
- Interactive on-screen help. Apple Guide can actually lead you through tasks step by step, so you can master the processes, procedures, and capabilities of your Macintosh and the applications running on it.
- Easy ways to work with PC files and media. Macintosh PC Exchange and Macintosh Easy Open are utilities that 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.)
- Outstanding print quality and easier printing. The QuickDraw GX printing and graphics architecture improves the quality of text and graphics, making it easy to achieve professional-looking typography and color graphics from your desktop. It supports Apple TrueType and Adobe Type Manager GX font technologies, and incorporates Apple's ColorSync technology for maintaining consistent color from scanned document to displayed image to printed result. In addition, QuickDraw GX streamlines the process

of printing, with desktop printer icons that let you simply drag and drop files onto them to print.

- Easier, more flexible networking. Open Transport is an innovative networking subsystem for the Mac OS that simplifies the process of configuring your system for networking, while offering more flexible options and a higher level of control over network configurations. It provides a consistent framework not just across networks (IANs and WANs), but also for serial communications and modem use for remote or dial-up networking. In addition, Open Transport makes TCP/IP networking a peer to AppleTalk networking, making it easier than ever to connect to and take advantage of the Internet—and any other network based on TCP/IP, such as an organizational intranet.
- PowerBook utilities for people on the move. 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. And these utilities let you designate files to be printed the next time you connect to a printer.
- Scripting for creating custom solutions. AppleScript software lets you create your own, individualized solutions by linking functions from different applications—and from the Finder.
- Internet readiness. MacTCP prepares your Macintosh for connection to other systems using the industry-standard TCP/IP networking protocols.
- Rich media support. Apple's QuickTime technologies provide a foundation for creating, storing, and distributing digital media—in some cases, even across platforms. Encompassing much more than just video and sound, the core QuickTime software also allows for the creation and control of text tracks, music/MIDI tracks, MPEG tracks, 3D sprites, animation tracks, and more. Other QuickTime Media Layer (QTML) technologies extend-these capabilities to three-dimensional objects, speech, and even a type of virtual reality. And QuickTime Conferencing supports remote collaboration, taking advantage of the media control enabled by QuickTime to enrich the shared experience. ■124

Macintosh Application Environment

Macintosh Application Environment (MAE) is an innovative software product that allows users of UNIX RISC-based workstations to run Macintosh 680x0 applications. 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. You can open UNIX files (including NFS-mounted volumes), access UNIX applications through the Macintosh user interface, and use systems services.
- Runs Macintosh applications. MAE lets you use the most popular off-the-shelf Macintosh software on your UNIX workstation.
- 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.
- Makes networking easy. Built-in support for AppleTalk lets you
 easily share documents, electronic mail, and printers with other
 MAE and Macintosh users. And support for MacTCP enables you
 to access the Internet and TCP/IP-based applications.

At Ease 3.0: For sharing your family Macintosh

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

- · Security within the Finder interface.
- Separate At Ease panels for CD-ROMs and floppy disks. Makes
 it easier to access multimedia titles, and also lets you decide
 which CD titles and contents are appropriate for your children.
- · Simplified setup and configuration.

Support for up to 40 users. Lets you create customized environments for up to 40 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 to be handled by someone other than the administrator.
- Shared-access and drop-box folders. Makes it easy for groups to share files, and for students to submit assignments electronically.

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 9500/200.

The Apple Media Advantage

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.

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. In addition, an estimated 62 percent of CD-ROM authoring is done using Apple media technologies, as is the creation of more than 50 percent of the digital video data on the Internet.

The Mac OS includes advanced media software

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

- QuickTime. QuickTime is the core technology, uniting the QTML technologies into a single, cohesive, open standard for creating, storing, and distributing digital media. QuickTime technology provides a means of working with any compression/decompression standard to control virtually any digital media content. Encompassing much more than just video and sound, QuickTime also allows for the creation and control of text tracks, music/MIDI tracks, MPEG tracks, VR objects, 3D objects, 3D sprites, and animation tracks, giving content creators access to a wide array of media options.
- QuickDraw 3D. This technology brings OS-integrated, realtime, workstation-class three-dimensional graphics to desktop computing. The QuickDraw 3D toolkit provides a complete set of geometries; a shading and rendering architecture; an

object-oriented, multiplatform file format (3DMF); a QD3D RAVE hardware abstraction layer for hardware acceleration; an input device architecture; and a set of 3D interface guidelines.

- · QuickTime VR. This virtual-reality tool supports three types of interactive user experiences: a panoramic technology that lets users explore 360-degree scenes, an interaction technology that lets users actually pick up and interact with objects, and multinode experiences that combine multiple scenes and objects.
- OuickTime Conferencing. This technology supports media-rich remote collaboration among users, allowing people to interact and share data over networks. It allows a variety of communications types, including point-to-point communications between two users, multiple-party sessions, or one-way broadcasting to a virtually unlimited number of viewers. Its support for leading media standards such as H.324 and T.120 makes it easy to integrate into existing videoconferencing facilities.
- Speech technologies. Apple's PlainTalk technology encompasses both speech recognition and speech synthesis, allowing for the creation of applications that both talk and listen. Apple's speechrecognition engine is speaker-independent, allows users to talk naturally without pausing between words, and operates accurately even in noisy environments.
- · Game Sprockets. Apple Game Sprockets is a set of APIs designed to solve common problems faced by game and entertainment programmers. It offers functionality such as standard, customizable user-interface dialogs for configuring, logging in, and hosting games over a network; tools for handling sound technologies; and ways of interacting with common input devices.

The best tools for digital media

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

★● Apple QuickTime Products

Apple's QuickTime technologies and the emerging QuickTime Media Layer (QTML) standard have led to the development of a number of products, including two kits that provide videoconferencing and collaboration capabilities. And in keeping with our push to make QTML a true open standard, some of these products are available for multiple platforms or in versions designed specifically for platforms other than the Mac OS.

- Apple VideoPhone Kit. This product builds on QuickTime
 Conferencing technology—a transport-, compression-, and media
 device—independent videoconferencing and collaboration solution designed as the foundation for a broad range of Apple and
 third-party conferencing solutions—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 conduct your videoconference.
- QuickTime Conferencing ISDN Kit. This product extends the reach of QuickTime Conferencing software to the international ISDN network. Using the kit's software and expansion card, you can conduct point-to-point videoconferencing sessions over ISDN lines with any other H.320-compliant Macintosh computer, PCs running MS-DOS or Windows, or room-based videoconferencing system. It consists of the following components:
- Expansion card containing H.320 software, ISDN hardware and jack, and handset interface and jack
- -QuickTime Conferencing H.320 software
- -Telephone handset and cord

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* 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. The kits are as follows:

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

• 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.

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HyperCard 2.3

HyperCard is an easy-to-use development tool for creating a wide range of custom software solutions. It lets you organize information through the metaphor of "stacks" of "cards" through which you can navigate and search for information. By simply clicking 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.

128 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 industrystandard 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.

Additional Digital Media Products

* Avid Cinema

Avid Cinema is a complete hardware and software solution that lets you create professional-looking movies right on your Macintosh computer—easily and inexpensively. Designed for novices, it steps you through the process of storyboarding, filming, and editing, as well as recording the finished movie to videotape or storing it as a QuickTime movie for use in multimedia presentations or on a World Wide Web site. Avid Cinema works with PowerPC processor—based Macintosh Performa or Power Macintosh computers that are equipped with a PCI slot and either built-in composite or S-video input or the Apple Video System. It consists of the following components:

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

Apple MPEG Media System

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

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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 Internet Advantage

Supporting Internet standards

Apple has a long—and continuing—history of support for Internet standards. For example, as early as 1988, Apple released MacTCP (the Mac OS implementation of TCP/IP—the Internet protocol), and began an aggressive campaign to license it. The next years saw the emergence of the first Internet applications to feature a graphical user interface: NCSA Telnet and Fetch, both created for the Macintosh. Perhaps even more significantly, Apple was the first company to incorporate support for TCP/IP in its operating system, with the 1993 inclusion of MacTCP in System 7.5. Maybe that's one reason so many of the early Internet explorers used Macintosh computers for their Internet connection. And Apple's support of standards continues today, with our adoption of Java, VRML Moving Worlds, Shockwave, Amber, and more.

Contributing Internet technologies

Complementing our support for standards, we are contributing our own technologies to the emerging Internet platform. For example, our QuickTime Media Layer (QTML) has established itself as the standard for a media-rich user experience on the Internet. QTML offers an easy, elegant solution for supporting multiple multimedia standards, enabling the flexible and versatile creation, manipulation, and dissemination of rich, interactive multimedia content. ** 124*

In addition, the OpenDoc component software architecture—which has grown from an Apple-backed venture into an open standard supported by a broad-based industry consortium—provides an ideal medium for combining the previously disparate tools required for dealing with the Internet (browsers, helper applications, e-mail software, plug-ins, add-ons, and on and on) into a single, seamless solution. Its modular architecture allows OpenDoc to unite the varied tools and data types required for Internet access and use, providing a consistent user experience.

Enhancing Internet solutions

Ultimately, the Internet isn't about technology-it's about what people can actually do with that technology. Apple's goal is to provide solutions that offer users an unparalleled, media-rich Internet experience. We are committed to making all of our products "Internet ready," by ensuring that our systems ship with everything that's needed for Internet access in terms of both hardware and software. But we also believe that "Internet access" means a lot more than just hardware with browsing capabilities. That's why we developed Cyberdog-a unique suite of Internet tools based on OpenDoc technology that lets users customize their Internet use and combine Internet functionality with existing applications under a single, seamless user interface. 135 And to ensure that our users continue to have the best and most current Internet access capabilities, Apple will deliver new capabilities to users in three ways-via system software, retail software products, and online distribution over the Internet.

Championing the intranet movement

Apple is also solidly behind the "intranet" movement—the growing use of Internet standards and technology to meet organizations' internal networking and communications needs. Our full support of Internet standards means that Macintosh computers, as well as our Mac OS-based Workgroup Server line, can fit seamlessly into any organizational intranet. Because ubiquitous Internet standards remove the earlier barriers to full networking parity, the innate advantages of Macintosh technology come into play. IP networking streamlines the development process for organizations, since they can create an application that will run on all of their supported client platforms without requiring porting. The Macintosh computer has always been popular with end users for its ease of use, with developers for its extensive tool set and ease of development, and with support people for its relatively low support requirements. Considerations such as these explain why Apple has become a model intranet user-and why growing numbers of organizations are considering Apple products and technologies.

The Apple Internet Server Solution for the World Wide Web

The Apple Internet Server Solution is an easy and affordable way to make your information available on the World Wide Web. It consists of a Workgroup Server (7250/120 or 8550/200) and a CD-ROM that contains all of the software required to get started publishing on the Internet. It's the perfect solution for organizations in business, education, or publishing that want to make their information widely accessible on the Internet.

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

- · Apple Internet Server Solution Software Installer
- · WebSTAR from QuarterDeck/StarNine
- PageMill from Adobe (WYSIWYG HTML editing software)
- · MacDNS from Apple
- · NetCloak from Maxum Development
- · ServerStat from Kitchen Sink Software
- · RealAudio Server from Progressive Networks
- · HyperCard from Apple
- · FileMaker Pro from Claris
- · EveryWare Tango and Butler SQL
- · Netscape Navigator client
- · BBEdit from Bare Bones Software
- Adobe Acrobat Pro
- Image map software
- · Electronic mail CGI
- · Sample web pages
- · AppleScript and useful scripting additions
- AppleSearch 1.5 and AppleSearch CGI
- · Apple RAID and AppleShare Client for Windows

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The Apple Internet Connection Kit

The Apple Internet Connection Kit is an up-to-date 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 online support, and all of the following applications:

- Apple Internet Dialer, online Internet service registration and connection software
- Netscape Navigator
- Apple Guide for the Apple Internet Connection Kit
- · Claris Emailer Lite
- · Dartmouth Fetch
- NewsWatcher
- NCSA Telnet
- · QuickTime plug-in
- · QuickTime VR Player
- · Macromedia Shockwave plug-ins
- · RealAudio Player
- · Adobe Acrobat Reader
- · Aladdin StuffIt Expander
- · OnBase Technology DragNet
- Farallon Look@Me
- · Dartmouth MacPing
- PPP and SLIP software
- · Quarterdeck GlobalChat

Cyberdog

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

Through its extensive tool set, including integrated mail and newsgroup services and a range of browsers and data viewers, Cyberdog simplifies and streamlines use of the Internet. The tight integration of its functionality also enables Cyberdog to offer advanced capabilities, such as the ability to send messages that include live links to Internet content.

Cyberdog makes the Internet truly useful by allowing you to develop documents that organize Internet resources relevant to the tasks at hand. What makes Cyberdog unique is that it lets you handle a number of disparate Internet-related functions with the same consistency that people have become accustomed to on a Macintosh system: double-click to open, drag to copy—whether it's a data file or a site's URL. That's because Cyberdog takes advantage of OpenDoc technology—which lets multiple software modules, called Live Objects, work together as a single, seamless application—to provide a level of integration unmatched by any other Internet tool.

* Apple Internet Mail Server

The Apple Internet Mail Server allows Internet users to send and receive e-mail over the Internet from any personal computer that supports the Simple Mail Transport Protocol (SMTP) and Post Office Protocol version 3 (POP3), two mainstream standards for Internet e-mail. The current version, version 1.1, provides basic POP/SMTP server functionality, supports volumes of up to 4 gigabytes, and is PowerPC native.

Networks and Communications

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 Apple Talk 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 Apple Talk Connection for Macintosh, adding support for dynamic and static protocol addressing in Apple Talk, as well as TCP/IP support for IP multicast for Internet multimedia applications and the Dynamic Host Configuration Protocol (DHCP) for easier network management.

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).

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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 online news feeds—and automatically format updates. Users can quickly find information on topics they specify, or they can

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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.

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The Apple IP Gateway

With the Apple IP Gateway, Macintosh users with Apple Remote Access, Local Talk, or any other Apple Talk 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 standalone 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.

Apple Network Administrator Toolkit

The Apple Network Administrator Toolkit provides powerful, yet easy-to-use management software for controlling and managing all of the systems on your network from a single point. Designed for network managers in every setting from education to business, this software lets you protect applications, documents, CDs, and

system settings with At Ease for Workgroups 4.0, the latest version of Apple's popular security and access management tool. It also helps you to keep track of whether everyone on your network is using the right version of each application, as well as to update those who aren't—easily and efficiently. You can also restart or shut down multiple systems simply, restore a hard disk to a known configuration, provide personal assistance to users across the network through a special screen-sharing function, and much more.

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 Cangiie.
- 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 Hanza.
- North Indian Language Kit—Includes a variety of scalable fonts for high-quality output.

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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 datamanagement 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 Apple Media Advantage section. 124

QuickCharts

Desktop & Portable Computers QuickChart

Model	Processor	Memory	Storage	Key features
Macintosh Performa 5260 series	120-MHz PowerPC 603e with math coprocessor, 32K on-chip cache; 256K level 2 cache (optional)	16MB-64MB	1.2GB; 8x-speed CD-ROM drive	PowerPC performance in an innovative all-in-one design; unique multimedia expansion options; Energy Star compliant
Macintosh Performa 5400 series	160-MHz or 180-MHz PowerPC 603e with math coprocessor, 32K on-chip cache; 256K level 2 cache (optional)	16MB-136MB	1.2GB; 8x-speed CD-ROM drive	Faster PowerPC performance in an innovative all-in-one design; unique multimedia expansion options; Energy Star compliant
Macintosh Performa 6360	160-MHz PowerPC 603e with math coprocessor, 32K on-chip cache; 256K level 2 cache (optional)	16MB-136MB	1.2GB; 8x-speed CD-ROM drive	Faster PowerPC performance in a flexible modular design; unique multimedia expansion options; PCI expansion slot; built-in high-speed modem; Energy Star compliant

Macintosh Performa 6400 series	180-MHz or 200-MHz PowerPC 603e with math coprocessor, 32K on-chip cache; 256K level 2 cache (some configurations)	16MB-136MB	1.6GB or 2.4GB; 8x-speed CD-ROM drive	Faster PowerPC performance in an innovative mini-tower design; many multimedia features; PCI expansion slots; built-in high-speed modem; energy-saving sleep mode
Power Macintosh 5260/120	120-MHz PowerPC 603e with math coprocessor, 32K on-chip cache; 256K level 2 cache (optional)	16MB-64MB	1.2GB; quad-speed CD-ROM drive	PowerPC performance in an innovative all-in-one design; unique multimedia expansion options; Energy Star compliant
Power Macintosh 5400/1801	180-MHz PowerPC 603e with math coprocessor, 32K on-chip cache; 256K level 2 cache (optional)	16MB-136MB	1.6GB; 8x-speed CD-ROM drive	Faster PowerPC performance in an innovative all-in-one design; unique multimedia expansion options; PCI expansion slots; Ethernet capability; Energy Star compliant

¹ This system comes in two configurations, which vary by market.



Desktop & Portable Computers QuickChart

Model	Processor	Memory	Storage	Key features (continued)
Power Macintosh 6360/160	160-MHz PowerPC 603e with math coprocessor, 32K on-chip cache; 256K level 2 cache	16MB-136MB	1.2GB; 8x-speed CD-ROM drive	Faster PowerPC performance in a flexible modular design; unique multimedia expansion options; PCI expansion slot; built-in high-speed modem; Energy Star compliant
Power Macintosh 6400/200	200-MHz PowerPC 603e with math coprocessor, 32K on-chip cache; 256K level 2 cache	16MB-136MB	2.4GB; 8x-speed CD-ROM drive	Faster PowerPC performance in an innovative mini-tower design; many multimedia features; PCI expansion slots; Ethernet capability; energy-saving sleep mode
Power Macintosh 7200/120	120-MHz PowerPC 601 with math coprocessor, 32K on-chip cache; 256K level 2 cache	16MB-256MB	1.2GB; 8x-speed CD-ROM drive; one additional 3.5-inch storage device	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; 100-MHz Pentium processor	16MB-256MB; 8MB-72MB	1.2GB; 8x-speed CD-ROM drive; one additional 3.5-inch storage device	Hardware-level MS-DOS 6.22 and Windows compatibility; Ethernet capability

Power Macintosh 7600/132	132-MHz PowerPC 604 with math coprocessor, 32K on-chip cache; 256K level 2 cache	16MB-512MB	1.2GB; 8x-speed CD-ROM drive; one additional 3.5-inch storage device	Powerful professional system; PowerPC performance; three PCI expansion slots; processor upgradability; Ethernet capability
Power Macintosh 8500/150 and 8500/180	150-MHz PowerPC 604 or 180-MHz PowerPC 604e with math coprocessor, 32K or 64K on-chip cache; 256K level 2 cache	16MB or 32MB-512MB	1.2GB or 2GB; 8x-speed CD-ROM drive; one additional 3.5-inch storage device	Powerful, feature-rich system; PowerPC 604 or 604e performance; three PCI expansion slots; processor upgradability; Ethernet capability
Power Macintosh 9500/180MP and 9500/200	Two 180-MHz or one 200-MHz PowerPC 604e with math coprocessor, 64K on-chip cache; 512K level 2 cache	16MB or 32MB-768MB	2GB; 8x-speed CD-ROM drive; one additional 3.5-inch storage device	Most powerful and expandable Power Macintosh computer; PowerPC 604e performance; multiprocessor model; six PCI expansion slots; processor upgradability; Ethernet capability

Desktop & Portable Computers QuickChart

Model	Processor	Memory	Storage	Key features (continued)
Macintosh PowerBook 1400cs/117	PowerPC 603e 16MB-64MB 6x-speed CD-ROM color display; PC Card slots		PowerPC performance; innovative design; dual-scan color display; PC Card slots and expansion bay; pre-installed software; IR technology; Energy Star compliant	
Macintosh PowerBook 1400c/117	117-MHz PowerPC 603e with math coprocessor, 32K on-chip cache	16MB-64MB	1GB; removable 6x-speed CD-ROM drive	PowerPC performance; innovative design; active-matrix color display; PC Card slots and expansion bay; pre-installed software; IR technology; Energy Star compliant
Macintosh PowerBook 1400c/133	133-MHz PowerPC 603e with math coprocessor, 32K on-chip cache; 128K level 2 cache	16MB64MB	1GB; removable 6x-speed CD-ROM drive	PowerPC performance; innovative design; active-matrix color display; PC Card slots and expansion bay; pre-installed software; IR technology; Energy Star compliant

Mac	intosh	PowerBook
Duo	2300c	/100
Duo	2300c	/100

100-MHz 8MB or 20MB-56MB PowerPC 603e with math coprocessor, 16K data cache, 16K instruction cache

750MB or 1.1GB

Smallest, lightest PowerBook; PowerPC performance; active-matrix color display; PowerBook Duo Dock Plus expansion option; Energy Star compliant

Desktop & Portable Computer Upgrades QuickChart

If you currently have this	You can upgrade to this	By purchasing this
Macintosh LC 475	PowerPC processor	Macintosh Processor Upgrade ¹
Macintosh LC 575	PowerPC processor	Macintosh Processor Upgrade ¹
Macintosh LC 580	PowerPC processor	Macintosh Processor Upgrade ¹
Macintosh LC 630	PowerPC processor	Macintosh Processor Upgrade ¹
Macintosh Performa 580	PowerPC processor	Macintosh Processor Upgrade ¹
Macintosh Performa 630 series	PowerPC processor	Macintosh Processor Upgrade ¹
Macintosh Quadra 630	PowerPC processor	Macintosh Processor Upgrade ¹
Power Macintosh 7200 series	Power Macintosh 7600 series	Power Macintosh 7600 Logic Board Upgrade ¹ and Processor Card Upgrade (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 (180 MHz) ²

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.

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 Kit ¹
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 Performa 5260 and Power Macintosh 5260/120 ¹	8MB	One SIMM slot filled with an 8MB SIMM, and one empty SIMM slot		= 8MB on logic board + one 8MB SIMM = 8MB on logic board + one 8MB SIMM + one 16MB SIMM	
Macintosh Performa 5400 and 6400 Series and Power Macintosh 5400 and 6400 Series ²	8MB	One DIMM slot filled with an 8MB DIMM, and one empty DIMM slot		= 8MB on logic board + two 8MB DIMMs = 8MB on logic board + two 64MB DIMMs	
Macintosh Performa 6360 and Power Macintosh 6360/160 ²	8MB	One DIMM slot filled with an 8MB DIMM, and one empty DIMM slot	16MB configuration 72MB configuration 136MB configuration	= 8MB on logic board + one 8MB DIMM = 8MB on logic board + two 32MB DIMMs = 8MB on logic board + two 64MB DIMMs	
Power Macintosh 7200/120 ²	None	Four 168-pin DIMM slots	32MB configuration 64MB configuration	= two 8MB DIMMs = four 8MB DIMMs = four 16MB DIMMs = four 64MB DIMMs	
Power Macintosh 7600/132 ²	None		32MB configuration 128MB configuration	= two 8MB DIMMs = four 8MB DIMMs = eight 16MB DIMMs = eight 64MB DIMMs	

None	Eight 168-pin	16MB configuration	= two 8MB DIMMs	
	DIMM slots	32MB configuration	= four 8MB DIMMs	
		128MB configuration	= eight 16MB DIMMs	
		512MB configuration	= eight 64MB DIMMs	
None	Twelve 168-pin	16MB configuration	= two 8MB DIMMs	
	DIMM slots	96MB configuration	= twelve 8MB DIMMs	
		192MB configuration	= twelve 16MB DIMMs	
		768MB configuration	= twelve 64MB DIMMs	
		DIMM slots None Twelve 168-pin	DIMM slots 32MB configuration 128MB configuration 512MB configuration 512MB configuration 16MB configuration DIMM slots 96MB configuration 192MB configuration	DIMM slots 32MB configuration 128MB configuration 512MB configuration 512MB configuration 512MB configuration DIMM slots 16MB configuration 16MB configuration 16MB configuration 194MB configuration 192MB

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.

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

Model	Minimum configuration				(continued)
	Built-in RAM on logic board	Number of SIMM, DIMM, or card slots	Amount of memory (RAM) you want		
PowerBook 1400cs/117, 1400c/117, and 1400c/133	12MB or 16MB	expansion slot	24MB configuration ³ 40MB configuration ³ 48MB configuration ³	= 16MB on logic board + 4MB memory card = 16MB on logic board + 8MB memory card = 16MB on logic board + 24MB memory card = 16MB on logic board + 32MB memory card = 16MB on logic board + 48MB memory card	

Requires third-party product.
 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.

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
Color StyleWriter 1500	720 by 360 dpi (black & white); 360 dpi (gray scale)	ppm (black & white) 1 user 64 Tru 33 ppm (color)		64 TrueType fonts	Most affordable color ink-jet printer; Energy Star compliant
olor StyleWriter 2200 720 by 360 dpi 5 ppm (black & white) (black & white); 360 dpi (gray scale and color) 5 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
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 12/640 PS	600 dpi with FinePrint; optional PhotoGrade ¹	12 ррт	3–20 users	64 TrueType and 35 PostScript fonts	Supports wide variety of media; flexible paper- handling options; Ethernet support; cross-platform support; Energy Star compliant
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; cross-platform support; optional plain- paper fax capability; Energy Star compliant
Color LaserWriter 12/660 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; cross- platform support; Energy Star compliant

¹ Requires minimum 12MB of RAM. ★ New model.

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
11 11 11	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 Magenta Ink Cartridge	M1949G/A M1950G/A	210 @ 7.5% 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%
South Control of the	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	
	Color PhotoGrade Print Kit	M5577LL/A	
	Color PhotoGrade Ink Cartridge*	M5579G/A	60 @ 7.5%
	Color PhotoGrade Paper, LTR 60 pk.*	M5578G/A	
	Color PhotoGrade Paper, A4	M5581G/A	

^{*} For use only with Color PhotoGrade supplies.

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 Premium Plus Coated Paper, A4 200 pk.	M4791G/A	
	Apple Color Ink-Jet Premium Plus Coated Paper, LTR 200 pk.	M4792G/A	
	Apple Color Ink-Jet Glossy Paper, LTR 50 pk.	M3655G/A	
	Apple Color Ink-Jet Glossy Paper, A4 50 pk.	M3656G/A	
	Apple Color Ink-Jet Back-Print Film, LTR 20 pk.	M2953G/A	
	Apple Color Ink-Jet Back-Print Film, A4 20 pk.	M2954G/A	
	Apple Color Ink-Jet Transparency Film, LTR 20 pk.	M2658G/A	
	Apple Color Ink-Jet Transparency Film, A4 20 pk.	M1959G/A	
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, 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%
LaserWriter 12/640 PS	Duplex Printing Unit 500-Sheet Cassette and Feeder Envelope Cassette Face-up Output Tray Toner Cartridge	M4697G/A M4682G/A M4680G/A M4698G/A M4633G/A	6.000 @ 5%
Color LaserWriter 12/600 PS Color LaserWriter 12/660 PS	Color LaserWriter Toner Cartridge, Cyan Color LaserWriter Toner Cartridge, Magenta Color LaserWriter Toner Cartridge, Yellow Color LaserWriter Toner Cartridge, Black Color LaserWriter Photoconductor Replacement Kit*	M3757G/A M3760G/A M3758G/A M3756G/A M3761G/A	4,000 @ 5% 4,000 @ 5% 4,000 @ 5% 4,000 @ 5%
	Color LaserWriter Fuser Oil Color LaserWriter Fuser Replacement Kit 110V Color LaserWriter Fuser Replacement Kit 220V Color LaserWriter Transparencies, LTR 50 pk. Color LaserWriter Transparencies, A4 50 pk.	M3755G/A M3867G/A M42346G/A M3876G/A M3877G/A	10,000 @ 5% 60,000 @ 5% 60,000 @ 5%

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

Video Support QuickChart

Model and Video RAM	Apple Multiple Scan 14 Display	Apple Multiple Scan 15 _{AV} Display	Apple Multiple Scan 1705 Display	AppleVision 1710 Display	AppleVision 1710av Display	Apple Multiple Scan 20 Display
Power Macintosh 72	00/120 ¹					
Built-in video (1MB)	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
Power Macintosh 76	00/132					
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
Power Macintosh 85	00/150 and 8500/180 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
Power Macintosh 95	00/180MP and 9500/20	00 (with graphics acc	elerator 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 Duo 2300	0c/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

¹ Video support shown is maximum number of colors; actual number of colors varies by resolution on multiple-scan displays.

Disp	lay r	esolu	tion
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Model and Video RAM	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 72	00/120				
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 76	00/132, 8500/150, and	8500/180			
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 95	00/180MP and 9500/20	0 (with graphics accelera	tor 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 15xv Display	15-inch (diagonal); 13.75-inch (diagonal viewable image size); flat, square screen; shadow mask tube	60-75 hertz (varies by resolution)	Selectable from 640 by 480 pixels to 1,024 by 768 pixels ¹	15.3 by 14.8 by 15.8 in; 30.0 ib.	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	17.2 by 16.5 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 960 pixels ¹	16.8 by 15.8 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 lube	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); 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; "new- generation" Sony Trinitron tube; 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. ★ New model.

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