



Apple Desktop Computers Update

Information About Apple's New Desktop Computers

April 1996

For Sales Personnel Only

Enhancements to the Power Macintosh Line

The Apple® Power Macintosh® computers described in this update represent improvements over previous Power Macintosh models in four key areas:

- **Performance and value.** These systems feature faster processors than those in the previous iterations—in some cases, quite significantly faster. In addition, nearly all configurations now come with level 2 cache. Finally, most Power Macintosh models come with larger-capacity hard disk drives.

- **System software stability and compatibility.** The new Power Macintosh computers—the 7200/120, 7600/120, 8500/132, 8500/150, and 9500/150—all run version 7.5.3 of the Mac™ OS, which improves system stability and compatibility, as well as offering performance enhancements and other system advancements.

- **Upgrade capabilities.** The Power Macintosh 7500, 7600, 8500, and 9500 series systems have an advanced modular design that allows them to be upgraded to faster processors (up to 200 megahertz, as higher-speed processors become available). Processor upgrade cards are now available in two versions: one with a 120-megahertz PowerPC™ 604 processor, and one with a 132-megahertz PowerPC 604.

In addition, there are two new logic board upgrades: one that gives Power Macintosh 7200 series systems the capabilities of a Power Macintosh 7600 (including processor upgradability), and one that transforms a Macintosh Quadra® 800 or 840AV or Power Macintosh 8100 series computer into a Power Macintosh 8500 series system.

- **Additional features.** All Power Macintosh computers now come with Internet access software. And when users install a PC Compatibility Card from Apple in one of these systems, they can connect both the card and the Power Macintosh to a network simultaneously.

Power Macintosh 7200/120



Product Description

The Power Macintosh 7200/120 combines affordability with high performance to provide an ideal system for small and medium-size businesses, for home offices, and for running productivity applications in organizations of any size. It features a 120-megahertz PowerPC 601 processor, 8MB or 16MB of RAM expandable to 256MB, a 1.2GB internal hard disk drive, and an internal quadruple-speed CD-ROM drive. For expansion and connectivity, it provides a 3.5-inch internal expansion bay for an additional storage device, three Peripheral Component Interconnect (PCI) expansion slots (which can accommodate either of Apple's PC Compatibility Cards), built-in Ethernet networking ports (10BASE-T and AAUI-15), a high-speed internal and external SCSI bus, two high-speed GeoPort®-compatible serial ports, an Apple Desktop Bus™ (ADB) port, and 16-bit stereo sound-input/output ports. Its video RAM-based accelerated graphics support (1MB of video RAM is standard, expandable to 4MB) enables it to display up to 24-bit color at 1,024- by 768-pixel resolution. The Power Macintosh 7200/120 runs version 7.5.3 of the Mac OS, which features a number of performance enhancements, as well as improved reliability, and it comes with all the software required for Internet access.

Positioning

The Power Macintosh 7200/120 offers affordable performance and productivity. This system is designed to provide the high performance of PowerPC technology and the expansion capabilities of PCI slots—including the ability to configure the computer to run MS-DOS or Windows by installing a PC Compatibility Card—all at an attractive price.

Key Selling Points

- **High performance.** The Power Macintosh 7200/120 features the performance of the RISC-based PowerPC 601 processor, running at 120 megahertz, which gives customers the power they need to handle any productivity task, as well as more computation-intensive tasks such as publishing or technical work. Most configurations include a 256K level 2 cache.

- **Expandability.** With its three PCI slots, the Power Macintosh 7200/120 can be expanded in any number of ways—for example, by adding a PC Compatibility Card, a graphics accelerator card, a fast networking card, or a video-in card—letting customers customize their systems to suit their needs.

- **Networking and connectivity.** The Power Macintosh 7200/120 comes with two high-speed serial ports and built-in Ethernet (10BASE-T and AAUI-15). It also features Open Transport software, which makes it easy to configure the system for networking; and GeoPort fax and telephony software, which provides a high-fidelity, full-duplex speakerphone and digital answering machine, as well as flexible computer-based fax capabilities (requires GeoPort Telecom Adapter).

- **Enhanced system software.** This computer runs version 7.5.3 of the Mac OS, which takes greater advantage of the performance of the PowerPC processor to provide improved performance; it also provides greater stability and reliability.

- **Internet access software.** The Power Macintosh 7200/120 makes it easy for customers to take advantage of the wealth of information and communications opportunities offered by the Internet, because it comes with all the software needed for Internet access.

- **Energy efficiency.** Designed with energy efficiency in mind, the Power Macintosh 7200/120 meets the energy-efficiency requirements for the U.S. Environmental Protection Agency's Energy Star rating and features an Energy Saver control panel that provides for automatic shutdown, allowing customers to manage their system's energy consumption.

Prospects

As the most affordable member of the Power Macintosh desktop family, the Power Macintosh 7200/120 is designed to appeal to customers who want the high performance of RISC without a high price tag. Primary targets are those in small to medium-size business, as well as small-office/home-office and home customers who require a powerful desktop computer.

Specifications	
CPU	120-MHz PowerPC 601; optional 256K level 2 cache
RAM	8MB or 16MB, expandable to 256MB
Storage	<ul style="list-style-type: none">• Built-in Apple SuperDrive® floppy disk drive• 1.2GB hard disk drive• Internal quadruple-speed CD-ROM drive• One 3.5-inch expansion bay
Expansion	Three PCI slots
Networking	Built-in LocalTalk® and Ethernet (10BASE-T/AAUI-15) connectors
Ports	Two serial ports, internal/external SCSI port, ADB port, monitor port, stereo sound-input/output ports

Power Macintosh 7600/120



Product Description

The Power Macintosh 7600/120 is an even more powerful, flexible desktop computer that offers the feature that more and more customers are looking for: processor upgradability, so their investment is protected against obsolescence. It comes with a 120-megahertz PowerPC 604 processor placed on a processor card, which can be easily swapped out for a card containing a more powerful processor as the customer's needs grow. Its high-quality video-input capabilities and hardware and software support for real-time video make the Power Macintosh 7600/120 an easy-to-use, low-cost videoconferencing solution. The Power Macintosh 7600/120 also includes 16MB of RAM expandable to 512MB, a 1.2GB internal hard disk drive, and an internal quadruple-speed CD-ROM drive. For expansion and connectivity, it provides a 3.5-inch internal expansion bay for an additional storage device, three PCI expansion slots (which can accommodate either PC Compatibility Card), built-in Ethernet networking ports (10BASE-T and AAUI-15), high-speed internal and external SCSI buses, two high-speed GeoPort-compatible serial ports, an ADB port, video-input ports (composite and S-video), a digital audio/video (DAV) connector, audio line input/output ports, and 16-bit stereo sound-input/output ports. It comes equipped with 2MB of on-board video RAM, expandable to 4MB, so it can display up to 24-bit color at 1,152- by 870-pixel resolution. This computer runs version 7.5.3 of the Mac OS, which features a number of performance enhancements, as well as improved reliability, and it comes with all the software required for Internet access.

Positioning

A powerful, flexible Power Macintosh computer that offers high performance today and preserves users' investments in the future. In particular, this system's combination of PowerPC performance and built-in hardware and software support for videoconferencing make it appropriate for business use. And its PCI expansion capabilities and processor upgradability make it a no-risk purchase for customers who want to be able to opt for even more advanced functionality and higher performance in the future.

Key Selling Points

- **High performance.** The Power Macintosh 7600/120 features the performance of the RISC-based PowerPC 604 processor, running at 120 megahertz, which gives customers the power to handle complex tasks easily. All configurations include a 256K level 2 cache.

- **Processor upgradability.** Because of its advanced modular design, customers can choose to upgrade the Power Macintosh 7600/120 to a faster processor (up to 200 megahertz) as their performance needs increase—making this system a safe investment for customers looking to the future.

- **Advanced multimedia support.** The Power Macintosh 7600/120 is designed to support videoconferencing. It features real-time video playthrough, video input, composite video and S-video, a DAV connector, and QuickTime® Conferencing software, as well as a new, easier-to-use video and sound control panel. With the simple addition of a camera, the 7600/120 is videoconferencing ready. It also includes Avid VideoShop software, for easy video editing.

- **Expandability.** With its three PCI slots, the Power Macintosh 7600/120 can be expanded in any number of ways—for example, by adding a PC Compatibility Card, a graphics accelerator card, or a high-speed networking card—letting customers customize their systems to suit their needs.

- **Networking and connectivity.** The Power Macintosh 7600/120 comes with two high-speed GeoPort-compatible serial ports and built-in Ethernet (10BASE-T and AAUI-15). It also features Open Transport software, which makes it easy to configure the system for networking; and GeoPort fax and telephony software, which provides a high-fidelity, full-duplex speakerphone and digital answering machine, as well as flexible computer-based fax capabilities (requires Geoport Telecom Adapter).

- **Enhanced system software.** This computer runs version 7.5.3 of the Mac OS, which takes greater advantage of the performance of the PowerPC processor to provide improved performance; it also provides greater stability and reliability.

- **Internet access software.** The Power Macintosh 7600/120 makes it easy for customers to take advantage of the wealth of information and communications opportunities offered by the Internet, because it comes with all the software needed for Internet access.

Prospects

The Power Macintosh 7600/120 is a powerful, expandable computer that makes advanced multimedia features more affordable than previously. Primary targets are those in medium-size to large business and small-office/home-office customers—in particular, those who are interested in videoconferencing. It is also a safe investment, because its processor upgradability lets it keep pace with improvements in processor technology. In addition, current users of DOS and Windows software-based computers may be attracted to this computer's combination of advanced functionality and affordability.

Specifications

CPU	120-MHz PowerPC 604; 256K level 2 cache
RAM	16MB, expandable to 512MB
Storage	<ul style="list-style-type: none">• Built-in Apple SuperDrive floppy disk drive• 1.2GB hard disk drive• Internal quadruple-speed CD-ROM drive• One 3.5-inch expansion bay
Expansion	<ul style="list-style-type: none">• Three PCI slots• Processor upgradability (up to 200 MHz)
Networking	Built-in LocalTalk and Ethernet (10BASE-T/AAUI-15) connectors
Ports	Two serial ports, internal and external SCSI ports, ADB port, monitor port, video-input ports, stereo sound-input/output ports, audio line input/output ports, DAV connector

Power Macintosh 8500/132 and 8500/150

Product Description

The Power Macintosh 8500/132 and 8500/150 are powerful desktop systems optimized for publishing, media authoring and other multimedia-related efforts, and a variety of technical tasks. They come with a 132- or 150-megahertz PowerPC 604 processor (upgradable through a simple processor card swap), 16MB of RAM expandable to 512MB, a 1.2GB or 2GB internal hard disk drive, and an internal quadruple-speed CD-ROM drive. With their full complement of video features—including near-broadcast-quality video-in and video-out—and their 132- or 150-megahertz PowerPC 604 processor, the Power Macintosh 8500 series systems have the power to handle any media. For expansion and connectivity, they provide a 3.5-inch internal expansion bay for an additional storage device, three PCI expansion slots (which can accommodate either PC Compatibility Card), built-in Ethernet networking ports (10BASE-T and AAUI-15), high-speed internal and external SCSI buses, two high-speed GeoPort-compatible serial ports, an ADB port, video-input/output ports (composite and S-video), a DAV connector, audio line input/output ports, and 16-bit stereo sound-input/output ports. They come equipped with 2MB of on-board video RAM, expandable to 4MB, so they can display up to 24-bit color at 1,152- by 870-pixel resolution. These computers run version 7.5.3 of the Mac OS, which features a number of performance enhancements, as well as improved reliability, and they come with all the software required for Internet access.



Positioning

The Power Macintosh 8500/132 and 8500/150 are feature-rich systems that enable you to integrate multiple media—including video, 3-D images, and sound—as easily as you now work with text. The fully integrated, advanced multimedia and communications features of the Power Macintosh 8500 series systems should appeal to those who work with media, as well as to technical users and developers. And, like the Power Macintosh 7600/120, the Power Macintosh 8500 computers offer PCI expansion capabilities and processor upgradability, making them a no-risk purchase for customers who want to be able to opt for more advanced functionality and higher performance in the future.

Key Selling Points

- **High performance.** The Power Macintosh 8500/132 and 8500/150 feature the performance of the RISC-based PowerPC 604 processor, running at 132 or 150 megahertz, which gives customers the power to handle complex tasks involving multiple media.

- **Comprehensive support for advanced multimedia.** The Power Macintosh 8500/132 and 8500/150 offer comprehensive video support, including near-broadcast-quality 24-bit video-in (composite and S-video) and video-out, a DAV connector, QuickTime Conferencing software, Avid VideoShop software, QuickDraw™ 3D software, and a new, easier-to-use video and sound control panel.

- **Processor upgradability.** Because of the advanced modular design of these systems, customers can choose to upgrade the Power Macintosh 8500 series computers to a faster processor (up to 200 megahertz) as their performance needs increase—making these systems a safe investment for customers looking to the future.

- **Expandability.** With their three PCI slots, the Power Macintosh 8500 series systems can be expanded in any number of ways—for example, by adding a PC Compatibility Card, a graphics accelerator card, or a Fast SCSI card—letting customers customize their systems to suit their needs.

- **Networking and connectivity.** The Power Macintosh 8500/132 and 8500/150 come with two high-speed serial ports and built-in Ethernet (10BASE-T and AAUI-15). They also feature Open Transport software, which makes it easy to configure the systems for networking; and GeoPort fax and telephony software, which provides a high-fidelity, full-duplex speakerphone and digital answering machine, as well as flexible computer-based fax capabilities (requires GeoPort Telecom Adapter).

- **Enhanced system software.** This computer runs version 7.5.3 of the Mac OS, which takes greater advantage of the performance of the PowerPC processor to provide improved performance; it also provides greater stability and reliability.

- **Internet access software.** The Power Macintosh 8500/132 and 8500/150 make it easy for customers to take advantage of the wealth of information and communications opportunities offered by the Internet, because they come with all the software needed for Internet access.

Prospects

The Power Macintosh 8500 series systems are extremely powerful, full-featured computers with a feature set that's optimized for media/video authoring. Primary target markets include in-house publishing, media authoring, and technical markets.

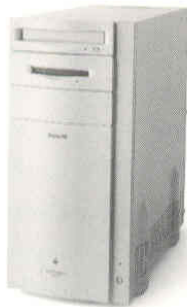
Specifications

CPU	132- or 150-MHz PowerPC 604; 256K level 2 cache
RAM	16MB, expandable to 512MB
Storage	<ul style="list-style-type: none">• Built-in Apple SuperDrive floppy disk drive• 1.2GB or 2GB hard disk drive• Internal quadruple-speed CD-ROM drive• One 3.5-inch expansion bay
Expansion	<ul style="list-style-type: none">• Three PCI slots• Processor upgradability (up to 200 MHz)
Networking	Built-in LocalTalk and Ethernet (10BASE-T/AAUI-15) connectors
Ports	Two serial ports, internal and external SCSI ports, ADB port, monitor port, video-input/output ports, stereo sound-input/output ports, audio line input/output ports, DAV connector

Power Macintosh 9500/150

Product Description

The Power Macintosh 9500/150 is Apple's most powerful, flexible, expandable desktop computer system—ideal for publishers, engineers, and multimedia professionals who require the utmost in performance and configurability. It comes with a 150-megahertz PowerPC 604 processor (upgradable through a simple processor card swap), 16MB or 32MB of RAM expandable to 768MB, a 2GB internal hard disk drive, and an internal quadruple-speed CD-ROM drive. For expansion and connectivity, it provides two 3.5-inch internal expansion bays for additional storage devices, six PCI expansion slots (which can accommodate either PC Compatibility Card), built-in Ethernet networking ports (10BASE-T and AAUI-15), high-speed internal and external SCSI buses, two high-speed GeoPort-compatible serial ports, an ADB port, and 16-bit stereo sound-input/output ports. Most Power Macintosh 9500/150 computers come configured with a graphics accelerator card that provides 2MB of video RAM, expandable to 4MB, so they can display up to 24-bit color at 1,152- by 870-pixel resolution. This computer runs version 7.5.3 of the Mac OS, which features a number of performance enhancements, as well as improved reliability, and it comes with all the software required for Internet access.



Positioning

The Power Macintosh 9500/150 is the most flexible, expandable Power Macintosh computer available. Offering the utmost in performance and configurability, this computer is ideal for publishing, multimedia, and technical work. And because many people in these fields work in multivendor environments or with colleagues who may use other types of computers, they will particularly appreciate the fact that the Power Macintosh 9500/150 can be easily configured to run MS-DOS and Windows (by installing a PC Compatibility Card).

Key Selling Points

- **High performance.** The Power Macintosh 9500/150 features the performance of the RISC-based PowerPC 604 processor, running at 150 megahertz, which gives customers the power to handle even the most computation-intensive tasks.
- **Processor upgradability.** Because of its advanced modular design, customers can choose to upgrade the Power Macintosh 9500/150 to a faster processor (up to 200 megahertz) as their performance needs increase—making this system a safe investment for customers looking to the future.

- **Expandability.** With its six PCI slots, the Power Macintosh 9500/150 can be expanded in any number of ways—for example, by adding a PC Compatibility Card, a graphics accelerator card (this system requires a graphics card for video support, and most configurations include one), a broadcast-quality video-editing card, a disk array card, or a Fast SCSI card—letting customers customize their systems to suit their needs.

- **Networking and connectivity.** The Power Macintosh 9500/150 comes with two high-speed serial ports and built-in Ethernet (10BASE-T and AAUI-15). It also features Open Transport software, which makes it easy to configure the system for networking; and GeoPort fax and telephony software, which provides a high-fidelity, full-duplex speakerphone and digital answering machine, as well as flexible computer-based fax capabilities (requires GeoPort Telecom Adapter).

- **Enhanced system software.** This computer runs version 7.5.3 of the Mac OS, which takes greater advantage of the performance of the PowerPC processor to provide improved performance; it also provides greater stability and reliability.

- **Internet access software.** The Power Macintosh 9500/150 makes it easy for customers to take advantage of the wealth of information and communications opportunities offered by the Internet, because it comes with all the software needed for Internet access.

Prospects

With its blend of high performance and unparalleled expandability, the Power Macintosh 9500/150 is designed to meet the needs of high-end users—people who demand the most powerful, capable computer technology available. It should be particularly popular with those in publishing, including multimedia workers who can configure it for broadcast-quality video editing. Other target customers include Macintosh® developers, users in technical fields such as drafting and technical document production, and scientific users, who need multiple slots to accommodate their data acquisition equipment.

Specifications

CPU	150-MHz PowerPC 604; 512K level 2 cache
RAM	16MB or 32MB, expandable to 768MB
Storage	<ul style="list-style-type: none">• Built-in Apple SuperDrive floppy disk drive• 2GB hard disk drive• Internal quadruple-speed CD-ROM drive• Two 3.5-inch expansion bays
Expansion	<ul style="list-style-type: none">• Six PCI slots• Processor upgradability (up to 200 MHz)
Networking	Built-in LocalTalk and Ethernet (10BASE-T/AAUI-15) connectors
Ports	Two serial ports, internal and external SCSI ports, ADB port, monitor port, stereo sound-input/output ports

Q&A

How does "processor upgradability" work?

The processors in all of the current Power Macintosh models (with the exception of the Power Macintosh 7200/120) are housed on a processor card, which can be easily replaced with a card containing a higher-performance processor (up to 200 megahertz) as these processors become available. In keeping with Apple's plug-and-play approach, the computer will automatically recognize the new processor. This means that users can buy these systems now and easily upgrade their performance in the future.

What are the PC Compatibility Cards from Apple?

Apple has developed user-installable cards that let users give their Power Macintosh systems functionality equivalent to that of a PC compatible. There are two PC Compatibility Cards: one with a 586 100-megahertz processor and the other with a Pentium 100-megahertz processor—and they both come with MS-DOS 6.22. With either of these cards installed, Power Macintosh computers have the ability to run not only applications written for the Mac OS and MS-DOS 6.2, but also (with additional software) applications written for Windows 3.1, Windows for Workgroups 3.11, and Windows 95, making these systems the most compatible mainstream desktop computers available today.

What features are included in the Apple Internet Connection Kit?

The Apple Internet Connection Kit, included with all new Power Macintosh computers, is an integrated collection of Apple and third-party software that allows users to connect directly to the Internet quickly and easily. The kit gives users out-of-the-box access to a choice of Internet service providers (ISPs), establishes ISP accounts on-line, automatically configures all required system settings, and provides a suite of fully licensed, "best of class" applications for web browsing, e-mail, FTP file transfer, and participation in Usenet discussions.

The Apple Internet Connection Kit features the following software components, which offer easy access to the Internet:

- Netscape Navigator™—the industry standard web browser
- Claris Emailer™ Lite—a powerful and easy-to-use e-mail management tool that allows users to send and receive Internet e-mail messages via an intuitive drag-and-drop interface
- Apple Internet Dialer—a tool for selecting Internet service from a choice of many different qualified Internet service providers
- Apple Guide—helps users learn more about the Internet and provides on-screen help to guide users through the five primary applications included in the kit

What are the improvements in the new version of the Mac OS—Macintosh System 7.5.3?

Macintosh System 7.5.3 includes a number of new key features that improve system reliability and performance. With this new version, Apple has delivered many enhancements requested by both Apple developers and customers. Most notable is the improved performance Power Macintosh users will encounter. System 7.5.3 includes more PowerPC native code—with virtual memory on, users will notice improvements in the transfer of small files and in application launch times. In addition, many new revisions of Mac OS technologies are included with System 7.5.3: Open Transport, QuickDraw 3D, QuickDraw GX, QuickTime, and many more.

Additional Information

Data Sheets

Power Macintosh 7200/120	L01071B
Power Macintosh 7600/120	L01072B
Power Macintosh 8500/132 and 8500/150	L01073B
Power Macintosh 9500/150	L01068B
Power Macintosh 7200/100 PC Compatible	L01756A
PC Compatibility Cards	L01758A
Power Macintosh Logic Board Upgrades and Processor Upgrade Card	L00604A

Other Documents

PC Compatibility Product Update	L01757A
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