



*Presenting
the Fall 1997
Apple Products
& Technologies
Data Sheet
Compendium.*



Mac[®] OS



Power Macintosh 9600 Series

Features

High performance

- 300- or 350-MHz PowerPC processor
- Integrated Iomega Zip drive
- Built-in floating-point processor and 32K on-chip data and 32K instruction caches
- 1MB of Apple Inline Cache (level 2)
- Built-in accelerated graphics card

Communications and multimedia

- Two high-speed serial ports compatible with GeoPort and LocalTalk cables
- 24x-speed CD-ROM drive
- 16-bit stereo audio input and output

Expandability

- Six industry-standard PCI expansion slots
- Dual-channel SCSI connector for hard disks, CD-ROM drives, and other SCSI devices
- Expansion bays for additional storage devices (3.5- or 5.25-inch)

Compatibility

- Includes 10BASE-T and AAUI-15 Ethernet connectors
- Supports Open Transport networking software (TCP/IP and AppleTalk)
- Runs 680x0 Macintosh applications as well as applications accelerated for Power Macintosh computers
- Reads Mac OS, Windows, MS-DOS, OS/2, and ProDOS floppy disk formats
- Runs MS-DOS and Windows applications via optional PC Compatibility Card from Apple
- Comes with all of the software required for Internet access

Mac OS 7.6.1 system software

- Makes working with different applications consistent, so they're easier to learn and use
- Allows easy customization of your Macintosh to reflect the way you work
- Provides active assistance in learning new features with Apple Guide
- Includes MacLinkPlus file translation software from DataViz

The Power Macintosh 9600/300 and 9600/350 computers excel in performance and expandability, which is tremendous news for publishers and multimedia professionals.

Featuring the PowerPC processor, running at a stunning 300 or 350 megahertz, the Power Macintosh 9600 series offers the outstanding performance you need to handle even the most complex tasks—such as color publishing or video editing. The new 1MB of Apple Inline Cache on the processor card provides direct access to the cache at 100 megahertz—a first for the Power Macintosh line. And the built-in Iomega Zip drive provides fast, easy storage for backup or file transfer.

Both Power Macintosh 9600 systems make use of a tower design that provides rapid, simple access to the computers' components. What's more, these computers also include a 24x-speed CD-ROM drive for fast, easy access to CD-ROM-based materials. And on the communications front, these computers support both AAUI-15 and 10BASE-T Ethernet connections and come with all the software you need for easy Internet access.

With six expansion slots that support the industry-standard high-performance Peripheral Component Interconnect (PCI) architecture,

these two systems are also some of the most customizable, expandable Macintosh computers available today. For example, if you want to run MS-DOS and Windows applications, you can install an Apple PC Compatibility Card and switch instantly between the computing environments.

The Power Macintosh 9600/300 and 9600/350 give you system software options. Although these computers come with Mac OS 7.6.1 installed, Apple will also provide Mac OS 8 on CD-ROM for you to upgrade when you're ready. Mac OS 8 is the latest, greatest version of the popular Macintosh system software provides significant performance enhancements designed to increase not only your productivity but also your enjoyment through desktop management.

So whether you're involved in publishing, multimedia, or engineering—or simply want an incredibly powerful, expandable, and versatile Macintosh computer—one of the Power Macintosh 9600 systems is sure to meet your needs.





Power Macintosh 9600 Series

Ordering Information

Power Macintosh 9600/300

Order No. M5901LL/A

- Power Macintosh 9600/300 computer with 64MB of RAM, a built-in 1.4MB Apple SuperDrive floppy disk drive, an internal 4GB hard disk drive, an internal 24x-speed CD-ROM drive, and a PlainTalk microphone. Includes keyboard and mouse; system software version 7.6.1 or later; Internet access software; complete setup, learning, and reference documentation; and limited warranty.

Power Macintosh 9600/350

Order No. M5906LL/A

- Power Macintosh 9600/350 computer with 64MB of RAM, a built-in 1.4MB Apple SuperDrive floppy disk drive, an internal 4GB hard disk drive, an internal 24x-speed CD-ROM drive, and a PlainTalk microphone. Includes keyboard and mouse; system software version 7.6.1 or later; Internet access software; complete setup, learning, and reference documentation; and limited warranty.

PC Compatibility Card (with Pentium 166-MHz processor)

Order No. M5782LL/A

Product specifications are subject to change. Check with your Apple reseller for the most current information about product specifications and configurations.

Technical Specifications

Processor

- 300- or 350-MHz 604e PowerPC processor
- Integrated floating-point unit, 32K on-chip data and instruction caches
- 1MB of Apple Inline Cache (level 2) on processor card

Memory

- 64MB of RAM, expandable to 768MB via 12 DIMM sockets
- 4MB of ROM

Disk drives

- Internal 4GB Fast SCSI hard disk
- Internal Apple SuperDrive floppy disk drive
 - Accepts high-density 1.4MB disks and 800K disks
 - Reads, writes, and formats Macintosh, Windows, MS-DOS, OS/2, and ProDOS disks
- Internal 24x-speed CD-ROM drive
- Integrated Iomega Zip drive for fast, easy storage or backup
- Expansion bays for additional storage devices—four 5.25-inch removable bays, three internal bays (open bays vary with configuration)

Interfaces

- Six PCI expansion slots compatible with PCI 2.0-compliant cards
- Two high-speed DMA serial (RS-232/RS-422) ports compatible with LocalTalk and GeoPort cables
- 10BASE-T and AAUI-15 Ethernet connectors; optional PC Compatibility Card provides multinode support for simultaneous network connections
- Internal Fast SCSI bus (up to 10MB/s)
- External SCSI bus (up to 5MB/s)
- Apple Desktop Bus (ADB) expansion port
- Mini jacks for stereo audio input and output
- DB-15 connector for monitor (on accelerated graphics card)

Graphics support (configured through accelerated graphics card)

- 8MB of VRAM
- Support for display formats of up to 1,600 by 1,200 pixels
- 24-bit color up to 1,600- by 1,200-pixel resolution
- Refresh rate of up to 85 Hz

GeoPort telephony*

- 28.8-Kbit/s modem support
- V.17 fax support
- GeoPort Fax and GeoPort Telephony software included
- Speakerphone and answering-machine capability

Clock/calendar

- Custom integrated circuit with long-life battery

Keyboard and mouse

- Includes keyboard and ADB Mouse II

Electrical requirements and compliance

- Line voltage: 100 to 125/200 to 240 V AC, RMS single phase, automatically configured
- Frequency: 50 to 60 Hz, single phase
- Power: 300 W maximum, not including display

ADB power requirements

- Maximum current draw for all ADB devices: 500 mA (a maximum of three ADB devices is recommended)
- Mouse draws 10 mA
- Keyboard draws 25 to 80 mA (varies with keyboard used)

Size and weight

- Height: 17.3 in. (44.0 cm)
- Width: 9.7 in. (24.6 cm)
- Depth: 17.3 in. (44.0 cm)
- Weight: 35.0 lb. (15.9 kg)**

Environmental requirements

- Operating temperature: 50° to 104° F (10° to 40° C)
- Storage temperature: -40° to 116° F (-40° to 47° C)
- Relative humidity: 5% to 95% noncondensing
- Maximum altitude: 10,000 ft. (3,048 m)

*Requires GeoPort Telecom Adapter.

**May differ based on configuration.

Apple Computer, Inc.
1 Infinite Loop
Cupertino, CA 95014
(408) 996-1010
<http://www.apple.com/>

© 1997 Apple Computer, Inc. All rights reserved. Apple, the Apple logo, Apple SuperDrive, AppleTalk, GeoPort, LocalTalk, Mac, Macintosh, PlainTalk, Power Macintosh, and ProDOS are trademarks of Apple Computer, Inc., registered in the U.S.A. and other countries. PowerPC is a trademark of International Business Machines Corporation, used under license therefrom. Mention of non-Apple products is for informational purposes only and constitutes neither an endorsement nor a recommendation. Apple assumes no responsibility with regard to the selection, performance, or use of these products. All understandings, agreements, or warranties, if any, take place directly between the vendors and the prospective users.
July 1997. Product specifications are subject to change without notice. Printed in the U.S.A.
L?????



Power Macintosh 8600 Series

Features

High performance

- 250-MHz or 300-MHz PowerPC processor
- Integrated Iomega Zip drive
- Built-in floating-point processor and 32K on-chip data and 32K instruction caches
- 1MB of Apple Inline Cache (level 2)
- Built-in accelerated graphics card

Communications and multimedia

- 64-bit VRAM graphics subsystem
- Two high-speed serial ports compatible with GeoPort and LocalTalk cables
- 24x-speed CD-ROM drive
- 16-bit stereo audio input and output
- 24-bit composite and S-video input and output

Expandability

- Three industry-standard PCI expansion slots
- SCSI connector for hard disks, CD-ROM drives, and other SCSI devices
- Expansion bays for additional storage devices (3.5- or 5.25-inch)

Compatibility

- Includes 10BASE-T and AAUI-15 Ethernet connectors
- Supports Open Transport networking software (TCP/IP and AppleTalk)
- Runs 680x0 Macintosh applications as well as applications accelerated for Power Macintosh computers
- Reads Mac OS, Windows, MS-DOS, OS/2, and ProDOS floppy disk formats
- Runs MS-DOS and Windows applications via optional PC Compatibility Card from Apple
- Comes with all of the software required for Internet access

Mac OS 7.6.1 system software

- Makes working with different applications consistent, so they're easier to learn and use
- Allows easy customization of your Macintosh to reflect the way you work
- Provides active assistance in learning new features with Apple Guide
- Includes MacLinkPlus file translation software from DataViz

If your profession demands a high-performance, expandable computer, look to the Power Macintosh 8600 series. These powerful computers are optimized for work a variety of media (audio, video, or graphics) tasks.

Featuring 250- or 300-megahertz PowerPC processors, the Power Macintosh 8600 series offers outstanding performance. The new 1MB of Apple Inline Cache on the processor card provides direct access to the cache at 100 megahertz—a first for the Power Macintosh line. And the tower design provides incredibly easy access to the computers' components, as well as accommodating a built-in Iomega Zip drive.

Built-in near-broadcast-quality video-input/output capabilities, a fast hard disk drive, and a 24x-speed CD-ROM drive add vitality to professional projects and—with Apple's QuickTime software—make media authoring on a Power Macintosh 8600 series computer simple. Networking is also a simple matter on these computers, because they include both Ethernet (AAUI-15 and 10BASE-T) and LocalTalk ports. They even come with all the software you need to access the Internet.

The three industry-standard Peripheral Component Interconnect (PCI) high-performance expansion slots on the Power Macintosh 8600 series systems let you customize them easily to meet your needs

more precisely. For example, if you want to run MS-DOS and Windows applications as well as software written for the Macintosh, you can install a PC Compatibility Card from Apple—and switch instantly between computing environments.

In fact, the Power Macintosh 8600/250 and 8600/300 give you yet another system software option. Although these computers come with Mac OS 7.6.1 installed, Apple will also provide Mac OS 8 on CD-ROM for you to upgrade when you're ready. Mac OS 8 is the latest, greatest version of the popular Macintosh system software provides significant performance enhancements, integrated Internet capabilities and state-of-the-art multimedia designed to increase not only your productivity but also your enjoyment through desktop management.

The Power Macintosh 8600/250 and 8600/300: Exceptional performance for media authoring—or any work with video, audio, or graphics—to enhance your creativity.





Power Macintosh 8600 Series

Ordering Information

Power Macintosh 8600/250

Order No. M5905LL/A

- Power Macintosh 8600/250 computer with 32MB of RAM, a built-in 1.4MB Apple SuperDrive floppy disk drive, an internal 4GB hard disk drive, an internal 24x-speed CD-ROM drive, an internal Iomega Zip drive, and a PlainTalk microphone. Includes keyboard and mouse; system software version 7.6.1 or later; Internet access software; complete setup, learning, and reference documentation; and limited warranty.

Power Macintosh 8600/300

Order No. M6092LL/A

- Power Macintosh 8600/300 computer with 32MB of RAM, a built-in 1.4MB Apple SuperDrive floppy disk drive, an internal 4GB hard disk drive, an internal 24x-speed CD-ROM drive, an internal Iomega Zip drive, and a PlainTalk microphone. Includes keyboard and mouse; system software version 7.6.1 or later; Internet access software; complete setup, learning, and reference documentation; and limited warranty.

PC Compatibility Card (with Pentium 166-MHz processor)

Order No. M5782LL/A

Product specifications are subject to change. Check with your Apple reseller for the most current information about product specifications and configurations.

Technical Specifications

Processor

- 250- or 300-MHz 604e PowerPC microprocessor
- Integrated floating-point unit, 32K on-chip data and instruction caches
- 1MB of Apple Inline Cache (level 2) on processor card

Memory

- 32MB of RAM, expandable to 512MB via 8 DIMM sockets
- 4MB of ROM

Disk drives

- Internal 4GB Fast SCSI hard disk
- Internal Apple SuperDrive floppy disk drive
 - Accepts high-density 1.4MB disks and 800K disks
 - Reads, writes, and formats Macintosh, Windows, MS-DOS, OS/2, and ProDOS disks
- Internal 24x-speed CD-ROM drive
- Integrated Iomega Zip drive for fast, easy storage or backup
- Expansion bays for additional storage devices—four 5.25-inch removable bays, three internal bays (open bays vary with configuration)

Interfaces

- Three PCI expansion slots compatible with PCI 2.0-compliant cards
- Two high-speed DMA serial (RS-232/RS-422) ports compatible with LocalTalk and GeoPort cables
- 10BASE-T and AAUI-15 Ethernet connectors; optional PC Compatibility Card provides multinode support for simultaneous network connections
- Internal Fast SCSI bus (up to 10MB/s)
- External SCSI bus (up to 5MB/s)
- Apple Desktop Bus (ADB) expansion port
- RCA phono jacks for line-level stereo audio input and output
- Mini jacks for stereo audio input and output
- All sound ports support 16-bit audio and up to 44.1-kHz sampling rate
- DB-15 connector for monitor
- Composite connectors (RCA phono jacks) for composite video input and output
- S-video input and output connectors
- Internal digital audio/video (DAV) connector for video compression/decompression cards

Video capabilities

- 24-bit video input
- Real-time video playthrough of up to 640 by 480 pixels with NTSC; 768 by 576 pixels with PAL and SECAM

- Up to 320- by 240-pixel capture at 25 frames per second with NTSC (with 4GB drive)
- Maximum capture size of 640 by 480 pixels with NTSC
- 24-bit video output
- Support for NTSC and PAL
- Convolution for flicker reduction at all bit depths

Graphics support

- 2MB of VRAM, expandable to 4MB
- Fast 64-bit data path to VRAM
- Support for display formats up to 1,280 by 1,024 pixels
- 24-bit color up to 1,152- by 870-pixel resolution
- Refresh rate of up to 75 Hz

GeoPort telephony*

- 28.8-Kbit/s modem support
- V.17 fax support
- GeoPort Fax and GeoPort Telephony software included
- Speakerphone and answering-machine capability

Clock/calendar

- Custom integrated circuit with long-life battery

Keyboard and mouse

- Includes keyboard and ADB Mouse II

Electrical requirements and compliance

- Line voltage: 100 to 125/200 to 240 V AC, RMS single phase, automatically configured
- Frequency: 50 to 60 Hz, single phase
- Power: 300 W maximum, not including display

ADB power requirements

- Maximum current draw for all devices: 500 mA (a maximum of three ADB devices is recommended)
- Mouse draws 10 mA
- Keyboard draws 25 to 80 mA (varies with keyboard used)

Size and weight

- Height: 17.3 in. (44.0 cm)
- Width: 9.7 in. (24.6 cm)
- Depth: 17.3 in. (44.0 cm)
- Weight: 35.0 lb. (15.9 kg)**

Environmental requirements

- Operating temperature: 50° to 104° F (10° to 40° C)
- Storage temperature: -40° to 116° F (-40° to 47° C)
- Relative humidity: 5% to 95% noncondensing
- Maximum altitude: 10,000 ft. (3,048 m)

*Requires GeoPort Telecom Adapter.

**May differ based on configuration.

Apple Computer, Inc.

1 Infinite Loop
Cupertino, CA 95014
(408) 996-1010

<http://www.apple.com/>

© 1997 Apple Computer, Inc. All rights reserved. Apple, the Apple logo, Apple SuperDrive, AppleTalk, GeoPort, LocalTalk, Mac, Macintosh, PlainTalk, Power Macintosh, ProDOS, and QuickTime are trademarks of Apple Computer, Inc., registered in the U.S.A. and other countries. PowerPC is a trademark of International Business Machines Corporation, used under license therefrom. Mention of non-Apple products is for informational purposes only and constitutes neither an endorsement nor a recommendation. Apple assumes no responsibility with regard to the selection, performance, or use of these products. All understandings, agreements, or warranties, if any, take place directly between the vendors and the prospective users.

July 1997. Product specifications are subject to change without notice. Printed in the U.S.A.

L????



Power Macintosh 9600/200 and 9600/200MP

Features

High performance

- One or two 200-MHz PowerPC 604e processors
- Built-in floating-point processor and 64K cache
- 512K level 2 cache
- Accelerated graphics card

Communications and multimedia

- Two high-speed serial ports compatible with GeoPort devices and LocalTalk cables
- 12x-speed CD-ROM drive
- 16-bit stereo audio input and output
- Support for speech-recognition and text-to-speech capabilities

Upgradability/Expandability

- Removable processor card allows easy upgrades*
- Six industry-standard PCI expansion slots
- Dual-channel SCSI connector for hard disks, CD-ROM drives, and other SCSI devices
- Internal expansion bays for additional storage devices (3.5-inch and 5.25-inch)

Compatibility

- Includes 10BASE-T and AAUI Ethernet connectors
- Supports Open Transport networking software (TCP/IP and AppleTalk)
- Runs 680x0 Macintosh applications as well as applications accelerated for Power Macintosh computers
- Reads Mac OS, Windows, MS-DOS, OS/2, and ProDOS floppy disk formats
- Runs MS-DOS and Windows applications via either of two optional PC Compatibility Cards from Apple
- Comes with all of the software required for Internet access

System 7.5.5 software

- Makes working with different applications consistent, so they're easier to learn and use
- Allows easy customization of your Macintosh to reflect the way you work
- Provides active assistance in learning new features with Apple Guide
- Includes MacLinkPlus file translation software from DataViz

The Power Macintosh 9600/200MP and 9600/200 computers are the top of the line in speed, performance, expandability, and upgradability*—which is tremendous news for publishers—particularly those who are working with advanced color—as well as for multimedia professionals and engineers.

The Power Macintosh 9600/200MP computer is a multiprocessor system with two 200-megahertz PowerPC 604e chips, which provides powerful performance improvements for applications that take advantage of its multiprocessing capabilities. The Power Macintosh 9600/200 features a single 200-megahertz PowerPC 604e processor.

Both Power Macintosh 9600 systems make use of a new tower design that provides incredibly easy system access for upgrades and new security features. In addition, a number of noted developers of graphics, video, and scientific/technical applications for the Mac OS are revamping their programs specifically to take advantage of the multiprocessing capabilities of the Power Macintosh 9600/200MP. These capabilities can provide significant performance improvements in processor-intensive applications such as color publishing, video-editing, and 3-D modeling. If you want to run MS-DOS and Windows applications, you can

**Capable of accepting processor upgrades at such time as upgrade products may become available from Apple Computer, Inc. or third-party manufacturers.*

install a PC Compatibility Card from Apple in one of the system's many PCI slots—and switch instantly between the computing environments.

With six expansion slots that support the industry-standard high-performance Peripheral Component Interconnect (PCI) architecture, these two systems are also the most customizable, expandable Macintosh computers available today. What's more, these systems also include a 12x-speed CD-ROM drive for fast, easy access to CD-ROM-based materials.

On the communications front, these computers support both AAUI and 10BASE-T Ethernet connections. And they include all of the software you need for easy Internet access.

So whether you're involved in publishing, multimedia or engineering—or simply want an incredibly powerful, expandable, and versatile Macintosh computer—one of the Power Macintosh 9600 systems is sure to meet your needs.





Power Macintosh 9600/200 and 9600/200MP

Ordering Information

Power Macintosh 9600/200MP

Order No. M4952LL/A

- Power Macintosh 9600/200MP computer with 32MB of RAM, a built-in 1.4MB Apple SuperDrive floppy disk drive, an internal 4GB high-performance hard disk drive, an internal 12x-speed CD-ROM drive, and a PlainTalk microphone. Includes mouse and keyboard; system software version 7.5.5 or later; Internet access software; complete setup, learning, and reference documentation; and limited warranty.

Power Macintosh 9600/200

Order No. M5461LL/A

- Power Macintosh 9600/200 computer with 32MB of RAM, a built-in 1.4MB Apple SuperDrive floppy disk drive, an internal 4GB hard disk drive, an internal 12x-speed CD-ROM drive, and a PlainTalk microphone. Includes mouse and keyboard; system software version 7.5.5 or later; Internet access software; complete setup, learning, and reference documentation; and limited warranty.

PC Compatibility Card Solutions

Order No. M4092LL/A

- PC Compatibility Card with 100-MHz Pentium processor

Order No. M4091LL/C

- PC Compatibility Card with 100-MHz 586 processor

GeoPort Telecom Adapter Kit

Order No. M5438LL/A

Product specifications are subject to change. Check with your Apple reseller for the most current information about product specifications and configurations.

Technical Specifications

Processor

- One or two 200-MHz PowerPC 604e microprocessors
- Integrated floating-point unit and 64K cache
- Processor mounted on a removable card for easy upgrades

Memory

- 32MB of RAM, expandable to 768MB via 12 DIMM sockets
- 4MB of ROM
- 512K level 2 cache

Disk drives

- AV-capable internal 4GB Fast SCSI hard disk
- Internal Apple SuperDrive floppy disk drive
- Accepts high-density 1.4MB disks and 800K disks
- Reads, writes, and formats Macintosh, Windows, MS-DOS, OS/2, and ProDOS disks
- Internal 12x-speed CD-ROM drive
- Expansion bays for additional storage devices—four 5.25-inch removable bays, three internal bays (open bays vary with configurations)

Interfaces

- Six PCI expansion slots compatible with PCI 2.0-compliant cards
- Two high-speed DMA serial (RS-232/RS-422) ports compatible with LocalTalk cables and GeoPort devices
- 10BASE-T and AAUI-15 Ethernet connectors; optional PC Compatibility Cards provide multinode support for simultaneous network connections
- Internal Fast SCSI bus (up to 10MB/s)
- External Standard SCSI bus (up to 5MB/s)
- Apple Desktop Bus (ADB) expansion port
- Mini jacks for stereo audio input and output
- DB-15 connector for monitor (on accelerated graphics card)

Graphics support (configured through accelerated graphics card)

- 4MB of VRAM
- Support for display resolutions of up to 1,600 by 1,200 pixels with Apple Multiple Scan 20 display
- Support for display resolutions of up to 1,280 by 1,024 pixels
- 24-bit color up to 1,152- by 870-pixel resolution
- Refresh rate of up to 75 Hz

GeoPort telephony support*

- 28.8-Kbit/s modem support
- V.17 fax support
- Speakerphone and answering-machine capability

Clock/calendar

- Custom integrated circuit with long-life battery

Keyboard and mouse

- Includes Apple keyboard and ADB Mouse II

Electrical requirements

- Line voltage: 100 to 125/200 to 240 V AC, RMS single phase, automatically configured
- Frequency: 50 to 60 Hz, single phase
- Power: 390 W maximum, not including display

ADB power requirements

- Maximum current draw for all ADB devices: 500 mA (a maximum of three ADB devices is recommended)
- Mouse draws 10 mA
- Keyboard draws 25 to 80 mA (varies with keyboard used)

Size and weight

- Height: 17.3 in. (44.0 cm)
- Width: 9.7 in. (24.6 cm)
- Depth: 17.3 in. (44.0 cm)
- Weight: 35.0 lb. (15.9 kg)

Environmental requirements

- Operating temperature: 50° to 104° F (10° to 40° C)
- Storage temperature: -40° to 116° F (-40° to 47° C)
- Relative humidity: 5% to 95% noncondensing
- Maximum altitude: 10,000 ft. (3,048 m)

*Requires GeoPort Telecom Adapter Kit

Apple Computer, Inc.
1 Infinite Loop
Cupertino, CA 95014
(408) 996-1010
<http://powermacintosh.apple.com/>

© 1997 Apple Computer, Inc. All rights reserved. Apple, the Apple logo, Apple SuperDrive, AppleTalk, GeoPort, LocalTalk, Mac, Macintosh, PlainTalk, Power Macintosh, ProDOS, and QuickTime are trademarks of Apple Computer, Inc., registered in the U.S.A. and other countries. QuickDraw is a trademark of Apple Computer, Inc. PowerPC is a trademark of International Business Machines Corporation, used under license therefrom. Mention of non-Apple products is for informational purposes only and constitutes neither an endorsement nor a recommendation. Apple assumes no responsibility with regard to the selection, performance, or use of these products. All understandings, agreements, or warranties, if any, take place between the vendors and the prospective users. February 1997. Product specifications are subject to change without notice. Printed in the U.S.A.
L02189A



Power Macintosh 8600/200

Features

High performance

- 200-MHz PowerPC 604e processor
- Built-in floating-point processor and 64K cache
- 256K level 2 cache on a DIMM
- Built-in graphics acceleration

Communications and multimedia

- 64-bit VRAM graphics subsystem
- Two high-speed serial ports compatible with GeoPort devices and LocalTalk cables
- 12x-speed CD-ROM drive
- 16-bit stereo audio input and output
- 24-bit composite and S-video input and output
- Support for speech-recognition and text-to-speech capabilities
- Optimized for QuickTime Conferencing software

Upgradability/Expandability

- Built-in Iomega Zip drive
- Removable processor card allows easy upgrades*
- Three industry-standard PCI expansion slots
- SCSI connector for hard disks, CD-ROM drives, and other SCSI devices
- Internal expansion bays for additional storage devices (3.5-inch and 5.25-inch)

Compatibility

- Includes 10BASE-T and AAUI Ethernet connectors
- Supports Open Transport networking software (TCP/IP and AppleTalk)
- Runs 680x0 Macintosh applications as well as applications accelerated for Power Macintosh computers
- Reads Mac OS, Windows, MS-DOS, OS/2, and ProDOS floppy disk formats
- Runs MS-DOS and Windows applications via either of two optional PC Compatibility Cards from Apple
- Comes with all of the software required for Internet access

System 7.5.5 software

- Makes working with different applications consistent, so they're easier to learn and use
- Allows easy customization of your Macintosh to reflect the way you work
- Provides active assistance in learning new features with Apple Guide
- Includes MacLinkPlus file translation software from DataViz

If your profession demands a high-performance, expandable computer that's optimized to make complex work easy, choose the Power Macintosh 8600/200 system. This high-performance computer includes built-in video-in and video-out capabilities in an innovative new design. It includes features that make it an ideal choice for in-house publishing, media authoring, and technical applications. And because its processor is mounted on a removable card for easy and affordable upgrade to faster processor cards* (as available), you can protect your investment for the future.

The new tower design of the Power Macintosh 8600/200 provides incredibly easy system access for upgrades, new security features, and a built-in Iomega Zip drive for fast, easy storage or backup. In addition, built-in near-broadcast-quality video-input/output capabilities, high-resolution graphics, an AV-capable hard disk drive, a 12x-speed CD-ROM drive, and CD-quality stereo sound add vitality to professional projects and—with Apple's QuickTime software—make media authoring easy.

The three industry-standard Peripheral Component Interconnect (PCI) high-performance expansion slots on this system let you customize it easily to meet your needs more precisely. You can find PCI cards for a variety of uses, including graphics, storage, and high-speed networking. And if you want to use

your Power Macintosh 8600/200 to run MS-DOS and Windows applications as well as software written for the Macintosh, you can install a PC Compatibility Card from Apple in one of the PCI slots—and switch instantly between computing environments. In addition, connecting your Power Macintosh 8600/200 computer to an Ethernet network is easy, because it includes both AAUI and 10BASE-T connectors.

Today, more and more computer users are discovering the wealth of information and communications resources and opportunities offered by the Internet. The Power Macintosh 8600/200 makes it easy to get involved in this rapidly expanding community, because it comes with all the software you need for easy Internet access.

The Power Macintosh 8600/200: Exceptional performance for media authoring or any work with video, audio, or graphics—to enhance your creativity.



**Capable of accepting processor upgrades at such time as upgrade products may become available from Apple Computer, Inc. or third-party manufacturers.*



Power Macintosh 8600/200

Ordering Information

Power Macintosh 8600/200

Order No. M5453LL/A

- Power Macintosh 8600/200 computer with 32MB of RAM, a built-in 1.4MB Apple SuperDrive floppy disk drive, an internal 2GB high-performance hard disk drive, an internal 12x-speed CD-ROM drive, an internal Iomega Zip drive, and a PlainTalk microphone. Includes keyboard and mouse; system software version 7.5.5 or later; Internet access software; complete setup, learning, and reference documentation; and limited warranty.

PC Compatibility Card Solutions

Order No. M4092LL/A

- PC Compatibility Card with 100-MHz Pentium processor

Order No. M4091LL/C

- PC Compatibility Card with 100-MHz 586 processor

GeoPort Telecom Adapter Kit

Order No. M5438LL/A

Product specifications are subject to change. Check with your Apple reseller for the most current information about product specifications and configurations.

Technical Specifications

Processor

- 200-MHz PowerPC 604e microprocessor
- Integrated floating-point unit, 64K cache, and three integer units
- Processor mounted on a removable card for easy upgrades

Memory

- 32MB of RAM, expandable to 512MB via 8 DIMM sockets
- 4MB of ROM
- 256K level 2 cache on DIMM socket

Disk drives

- Internal 2GB SCSI hard disk
- Internal Apple SuperDrive floppy disk drive
- Accepts high-density 1.4MB disks and 800K disks
- Reads, writes, and formats Macintosh, Windows, MS-DOS, OS/2, and ProDOS disks
- Internal 12x-speed CD-ROM drive
- Integrated Iomega Zip drive for fast, easy storage or backup
- Expansion bays for additional storage devices—four 5.25-inch removable bays, three internal bays (open bays vary with configurations)

Interfaces

- Three PCI expansion slots compatible with PCI 2.0-compliant cards
- Two high-speed DMA serial (RS-232/RS-422) ports compatible with LocalTalk cables and GeoPort devices
- 10BASE-T and AUI-15 Ethernet connectors; optional PC Compatibility Cards provide multinode support for simultaneous network connections
- Internal Fast SCSI bus (up to 10MB/s)
- External SCSI bus (up to 5MB/s)
- Apple Desktop Bus (ADB) expansion port
- RCA phono jacks for line-level stereo audio input and output
- Mini jacks for stereo audio input and output
- All sound ports support 16-bit audio and up to 44.1-kHz sampling rate
- DB-15 connector for monitor
- Composite connectors (RCA phono jacks) for composite video input and output
- S-video input and output connectors
- Internal digital audio/video (DAV) connector for video compression/decompression cards

Video capabilities

- 24-bit video input
- Real-time video playthrough of up to 640 by 480 pixels with NTSC; 768 by 576 pixels with PAL and SECAM
- Up to 320- by 240-pixel capture up to 25 frames per second with NTSC (with 2GB drive)
- Maximum capture size of 640 by 480 pixels with NTSC
- 24-bit video output
- Support for NTSC and PAL
- Convolution for flicker reduction at all bit depths

Graphics support

- 2MB of VRAM, expandable to 4MB via four connectors
- Fast 64-bit data path to VRAM
- Support for display resolutions of up to 1,280 by 1,024 pixels
- 24-bit color up to 1,152- by 870-pixel resolution
- Refresh rate of up to 75 Hz

GeoPort telephony support*

- 28.8-Kbit/s modem support
- V.17 fax support
- Speakerphone and answering-machine capability

Clock/calendar

- Custom integrated circuit with long-life battery

Keyboard and mouse

- Includes Apple keyboard and ADB Mouse II

Electrical requirements

- Line voltage: 100 to 240 V AC, RMS single phase, automatically configured
- Frequency: 50 to 60 Hz, single phase
- Power: 390 W maximum, not including display

ADB power requirements

- Maximum current draw for all ADB devices: 500 mA (a maximum of three ADB devices is recommended)
- Mouse draws 10 mA
- Keyboard draws 25 to 80 mA (varies with keyboard used)

Size and weight

- Height: 17.3 in. (44.0 cm)
- Width: 9.7 in. (24.6 cm)
- Depth: 17.3 in. (44.0 cm)
- Weight: 35.0 lb. (15.9 kg)

Environmental requirements

- Operating temperature: 50° to 104° F (10° to 40° C)
- Storage temperature: -40° to 116° F (-40° to 47° C)
- Relative humidity: 5% to 95% noncondensing
- Maximum altitude: 10,000 ft. (3,048 m)

*Requires GeoPort Telecom Adapter Kit

Apple Computer, Inc.
1 Infinite Loop
Cupertino, CA 95014
(408) 996-1010
<http://powermacintosh.apple.com/>

© 1997 Apple Computer, Inc. All rights reserved. Apple, the Apple logo, Apple SuperDrive, AppleTalk, GeoPort, LocalTalk, Mac, Macintosh, PlainTalk, Power Macintosh, ProDOS, and QuickTime are trademarks of Apple Computer, Inc., registered in the U.S.A. and other countries. QuickDraw is a trademark of Apple Computer, Inc. PowerPC is a trademark of International Business Machines Corporation, used under license therefrom. Iomega and Zip are registered trademarks of the Iomega Corporation. Mention of non-Apple products is for informational purposes only and constitutes neither an endorsement nor a recommendation. Apple assumes no responsibility with regard to the selection, performance, or use of these products. All understandings, agreements, or warranties, if any, take place between the vendors and the prospective users.
February 1997. Product specifications are subject to change without notice. Printed in the U.S.A.
L02190A



Macintosh PowerBook

3400c/180, 3400c/200, and 3400c/240

Features

High performance

- Brings the fastest processor technology ever to a PowerBook system, with a 180-, 200-, or 240-MHz PowerPC 603e processor and 256K level 2 cache
- Features industry-standard PCI architecture
- Uses lithium-ion battery technology for light weight and long battery life

State-of-the-art multimedia

- Features a large, 12.1-in. (diagonal) active-matrix SVGA display that supports thousands of colors
- Offers outstanding video capabilities, including graphics acceleration through its PCI-based video controller
- Provides an ideal environment for creating and presenting complex multimedia content
- 180- and 200-MHz systems include a removable, internal CD-ROM drive (most configurations); 240-MHz systems include a 12x-speed CD-ROM drive
- Comes with four built-in speakers with active crossover for rich sound quality
- Features 16-bit stereo sound input/output ports and integrated microphone

Advanced communications capabilities

- Provides built-in Ethernet and modem (most configurations) for fast, versatile networking and communications capabilities
- Comes with built-in 1-megabit IrDA infrared technology for easy, wireless LAN access and file sharing with similarly equipped systems

Flexible expansion options

- Offers one RAM expansion slot for memory enhancement up to 144MB
- Accommodates two Type II PC Cards or one Type III PC Card for additional networking, storage, and modem options
- Features an expansion bay for the floppy disk drive, CD-ROM drive, or third-party solutions such as a second hard disk drive, magneto-optical drive, or Zip drive

Bundled productivity software

- Includes Claris Organizer and WebWhacker (an "offline browsing tool"), as well as demo and game programs
- Comes with Apple Internet Connection Kit
- Provides software for remote access and cross-platform compatibility
- Features Apple Location Manager software, which allows you to easily switch system settings that vary by location (printer, networking, and so on)

The Apple Macintosh PowerBook 3400 series takes Apple's most acclaimed feature—ease of use—and combines it with desktop-level performance, state-of-the-art multimedia, and quick and easy communications capabilities. These systems are the optimal choice for mobile professionals who want access to top-of-the-line notebook computer technology.

Macintosh PowerBook 3400 systems sport the fastest processors ever offered in a PowerBook computer. With their 180-, 200-, or 240-megahertz PowerPC 603e processor with 256K level 2 cache, they rival desktop computer performance. In fact, they rival desktop capabilities in a number of other areas as well.

For example, these systems' multimedia capabilities allow mobile professionals not only to give presentations on the road or in the office, but also to create media-rich presentations—whenever and wherever they want. The Macintosh PowerBook 3400 series features a 12.1-inch active-matrix display, 6x- or 12x-speed CD-ROM drive (most configurations), 16-bit video-out capability, video-in with zoomed video, and unique four-speaker sound system.

Communications is the other key concern of mobile professionals, and the PowerBook 3400 series is equally strong in this area. Featuring built-in Ethernet and high-speed, 33.6-kilobit-per-second modem capabilities (most configurations), this series offers the communications efficiency that makes staying in touch quick and easy. In fact, these advanced portables provide the flexibility to use the appropriate communications technology at any given site and in any given situation—whether that involves connecting to an organizational intranet, logging onto the Internet, or downloading information from a remote server.

In short, with its unparalleled combination of performance, multimedia capabilities, and built-in communications technology, the Macintosh PowerBook 3400 series gives you the power to do virtually anything you want to do with a computer—anywhere.





Macintosh PowerBook

3400c/180, 3400c/200, and 3400c/240

Ordering Information

Macintosh PowerBook 3400c/180

Order No. M4596LL/A

- PowerBook 3400c/180 computer with 180-MHz PowerPC 603e processor, 16MB of RAM, built-in 1.4MB Apple SuperDrive, and internal 1.3GB hard disk drive

Macintosh PowerBook 3400c/180

Order No. M4597LL/A

- Same as Order No. M4596LL/A, but with 6x-speed CD-ROM drive, built-in 10BASE-T Ethernet, and 33.6-Kbps modem

Macintosh PowerBook 3400c/200

Order No. M4595LL/A

- Same as Order No. M4597LL/A, but with 200-MHz PowerPC 603e processor and 2GB hard disk drive

Macintosh PowerBook 3400c/240

Order No. M5550LL/A

- Same as Order No. M4595LL/A, but with 240-MHz PowerPC 603e processor, 12x-speed CD-ROM drive, and 3GB hard disk drive

All systems also ship with battery and AC adapter; Mac OS 7.6; complete setup, learning, and reference documentation; Apple Internet Connection Kit software; Apple Remote Access software; cross-platform compatibility software (PC Exchange, Mac OS Easy Open, DataViz MacLinkPlus/Easy Open translators; and limited warranty

Accessories

Rechargeable Battery for Macintosh PowerBook 3400 Series

Order No. M5146

12x-speed CD-ROM Module for Macintosh PowerBook 3400 Series

Order No. M5848

16MB Memory Expansion Card for Macintosh PowerBook 3400 Series

Order No. M5141

45-watt AC Adapter for Macintosh PowerBook 1400 and 3400 series

Order No. M4895

Apple Computer, Inc.

1 Infinite Loop
Cupertino, CA 95014
(408) 996-1010

<http://www.apple.com/>

Technical Specifications

Microprocessor

- 180-, 200-, or 240-MHz PowerPC 603e; 256K level 2 cache

Memory

- 16MB of RAM, expandable to 144MB

Storage

- Apple SuperDrive 1.4MB floppy disk drive
- Internal 1.3GB, 2GB, or 3GB hard disk drive
- 6x-speed CD-ROM drive module (most configurations); 12x-speed CD-ROM (3400c/240 system)

Display

- 12.1-in. (diagonal) active-matrix color SVGA display
- Resolution: 800 by 600 pixels
- 1MB of VRAM supports 8-bit color video output to 21-inch monitor; supports thousands of colors on smaller monitors in SVGA mode
- Includes hardware-based graphics acceleration

Expansion capabilities

- One memory expansion slot
- Slots for two Type II PC Cards or one Type III PC Card
- Expansion bay for floppy disk drive, 6x-speed or 12x-speed CD-ROM drive, or third-party storage or back-up solutions; also supports all of the Macintosh PowerBook 190 and 5300 series modules

Battery

- Lithium ion (Lilon—32-watt hour)
- Average life: 2 to 4 hours, depending on environment
- Also supports nickel-metal-hydride (NiMH) battery technology

Ports

- Apple Desktop Bus (ADB) port
- Serial (RS-422) port
- VGA video-out port
- SCSI port can accommodate six external devices
- Infrared technology port
- Power adapter port
- Stereo sound input/output ports

Networking and communications

- Built-in 10BASE-T Ethernet (most configurations)
- Built-in 33.6-Kbps modem (most configurations)
- Built-in infrared technology supports AppleTalk protocols and 1-Mb IrDA standard

Security

- Security slot for locking (requires third-party cable)
- Password security software

Sound

- Four built-in speakers with active crossover
- 16-bit, CD-quality stereo input/output
- Integrated microphone

Keyboard

- Built-in full-size keyboard with 76 (U.S.) or 77 (ISO) keys, including 12 function keys

Apple trackpad

- Solid-state Apple trackpad provides precise cursor control; sensing of movement and acceleration can be easily adjusted through a control panel; supports tap, double-tap, and drag capabilities

Electrical requirements

- Line voltage: 100 to 220 volts AC
- Frequency: 50 to 60 Hz

Environmental requirements

- Operating temperature: 50° to 104° F (10° to 40° C), except 3400c/240 requires 50° to 95° F (10° to 35° C)
- Storage temperature: -13° to 140° F (-25° to 60° C)
- Relative humidity: 20% to 90% noncondensing
- Operating altitude: 0 to 10,000 ft. (0 to 3,048 m)
- Maximum storage altitude: 20,000 ft. (6,300 m)

Size and weight

- Height: 2.4 in. (6.1 cm)
- Width: 11.5 in. (29.2 cm)
- Depth: 9.5 in. (24.1 cm)
- Weight: 7.2 lb. (3.2 kg) with floppy disk drive installed; 7.4 lb. (3.3 kg) with CD-ROM module; 6.9 lb. (3.1 kg) with PC Card carrying case installed

PowerBook Model Order No.	3400c/180 M4596LL/A	3400c/180 M4597LL/A	3400c/200 M4595LL/A	3400c/240 M5550LL/A
Processor speed	180 MHz	180 MHz	200 MHz	240MHz
16MB of RAM	✓	✓	✓	✓
256K level 2 cache	✓	✓	✓	✓
12.1-inch active-matrix SVGA display	✓	✓	✓	✓
Apple SuperDrive 1.4MB floppy disk drive	✓	✓	✓	✓
Hard disk drive	1.3GB	1.3GB	2GB	3GB
CD-ROM drive		6x-speed	6x-speed	12x-speed
10BASE-T Ethernet		✓	✓	✓
33.6-Kbps modem		✓	✓	✓

Product specifications are subject to change. Check with your Apple reseller for the most current information about product specifications and configurations.

© 1997 Apple Computer, Inc. All rights reserved. Apple, the Apple logo, Apple SuperDrive, AppleTalk, LocalTalk, Mac, Macintosh, and PowerBook are trademarks of Apple Computer, Inc., registered in the U.S.A. and other countries. Claris and Claris Organizer are registered trademarks of Claris Corporation. PowerPC is a trademark of International Business Machines Corporation, used under license therefrom. Mention of non-Apple products is for informational purposes only and constitutes neither an endorsement nor a recommendation. Apple assumes no responsibility with regard to the selection, performance, or use of these products. All understandings, agreements, or warranties, if any, take place directly between the vendors and the prospective users.

Product specifications are subject to change without notice. Printed in U.S.A.

February 1997



Power Macintosh 7600 Series

Features

High performance

- 120-MHz PowerPC 604 processor, user-upgradable to faster processor when available (up to 200 MHz)
- Built-in floating-point processor and 32K cache
- 256K level 2 cache
- Built in graphic acceleration

Communications and multimedia

- 64-bit VRAM graphics subsystem
- Two high-speed serial ports compatible with GeoPort and LocalTalk cables
- Quadruple-speed CD-ROM drive
- 16-bit stereo audio input and output
- 24-bit composite and S-video input
- Support for speech-recognition and text-to-speech capabilities
- Optimized for QuickTime Conferencing software

Expandability

- Three industry-standard PCI expansion slots
- SCSI connector for hard disks, CD-ROM drives, and other SCSI devices
- Internal expansion bay for additional hard disk drive

Compatibility

- Includes 10BASE-T and AAUI Ethernet connectors
- Supports Open Transport networking software (TCP/IP and AppleTalk)
- Runs most 680x0 Macintosh applications as well as applications accelerated for Power Macintosh computers
- Reads Mac OS, Windows, MS-DOS, OS/2, and ProDOS floppy disk formats
- Runs MS-DOS and Windows applications via optional PC Compatibility Cards
- Comes with all of the software required for Internet access

System 7.5 software

- Makes working with different applications consistent, so they're easier to learn and use
- Allows easy customization of your Macintosh to reflect the way you work
- Provides active assistance in learning new features with Apple Guide

If you need a computer that offers increased performance and expandability for your business, regardless of its size, the Power Macintosh 7600/120 delivers. With a 120-megahertz PowerPC 604 RISC processor that you can easily upgrade to an even faster processor, the Power Macintosh 7600/120 gives you all the advantages of PowerPC technology now—with plenty of room to grow later. Built-in video-input capability, high-resolution graphics, and CD-quality stereo sound add vitality to everyday business projects. And because the Power Macintosh 7600/120 optimizes the transfer of video data, it is an ideal system for videoconferencing.

The three industry-standard Peripheral Component Interconnect (PCI) expansion slots on the Power Macintosh 7600/120 let you customize the computer easily to more precisely meet your needs. You can find many PCI cards for a variety of uses, including graphics, storage, and high-speed networking. And if you want to use your Power Macintosh 7600/120 to run MS-DOS and Windows applications as well as software written for

the Macintosh, you can install an Apple PC Compatibility Card in one of the system's PCI slots—and switch instantly between the two computing environments.

Connecting your Power Macintosh 7600/120 computer to an Ethernet network is easy, because it includes both AAUI and 10BASE-T connectors. With an optional PC Compatibility Card, you can connect both the card and Power Macintosh to a network simultaneously.

Today, more and more computer users are discovering the wealth of information, communications resources, and opportunities offered by the Internet. The Power Macintosh 7600/120 makes it easy to get involved in this rapidly expanding community, because it comes with all of the software you need for easy Internet access.

Whether you are selecting computers for a large corporation or a single-person home office, the Power Macintosh 7600/120 system offers PowerPC performance and PCI expandability giving you the versatility you need for professional computing.





Power Macintosh 7600 Series

Ordering Information

Power Macintosh 7600/120

- Power Macintosh 7600/120 computer with 16MB of RAM, a built-in 1.4MB Apple SuperDrive floppy disk drive, an internal 1.2GB hard disk drive, an internal quadruple-speed CD-ROM drive, and a PlainTalk micro-phone. Includes mouse; system software version 7.5.3 or later; Internet access software; complete setup, learning, and reference documentation; and limited warranty.

PC Compatibility Card Solutions

- Order No. M4092LL/A
 - PC Compatibility Card with Pentium 100-MHz processor
- Order No. M4091LL/A
 - PC Compatibility Card with 586 100-MHz processor

Power Macintosh Processor Upgrade Card

- Order No. M4731LL/A (120 MHz) and M4875LL/A (132 MHz)

Power Macintosh GeoPort Telecom Adapter

- Order No. M3127LL/C

Apple QuickDraw 3D Accelerator Card

- Order No. M4333LL/A

Product specifications are subject to change. Check with your Apple reseller for the most current information about product specifications and configurations.

Technical Specifications

Upgradable microprocessor

- PowerPC 604 microprocessor running at 120 MHz, upgradable to a higher-speed processor when available (up to 200 MHz)
- Integrated floating-point unit and 32K cache
- High-speed system bus (up to 50 MHz)

Memory

- 16MB of RAM, expandable to 512MB via 8 DIMM sockets
- 4MB of ROM
- 256K level 2 cache

Disk drives

- Internal 1.2GB SCSI hard disk
- Internal Apple SuperDrive floppy disk drive
 - Accepts high-density 1.4MB disks and 800K disks
 - Reads, writes, and formats Macintosh, Windows, MS-DOS, OS/2, and ProDOS disks
- Internal AppleCD 600i quadruple-speed CD-ROM drive
- Expansion bay for additional 3.5-inch hard disk

Interfaces

- Three PCI expansion slots compatible with PCI 2.0-compliant cards
- Two high-speed DMA serial (RS-232/RS-422) ports compatible with LocalTalk and GeoPort cables
- 10BASE-T and AAUI-15 Ethernet connectors; optional PC Compatibility Cards provide multinode support for simultaneous network connections
- Internal Fast SCSI bus (up to 10MB/s)
- External SCSI bus (up to 5MB/s)
- Apple Desktop Bus (ADB) expansion port
- RCA phono jacks for line-level stereo audio input and output
- Mini jacks for stereo audio input and output
- All sound ports support 16-bit audio and up to 44.1-kHz sampling rate
- DB-15 connector for monitor
- Composite connectors (RCA phono jacks) for composite video input
- S-video input connector
- Internal digital audio/video (DAV) connector for video compression/decompression cards

24-bit video input

- Real-time video playthrough of up to 640 by 480 pixels with NTSC; 768 by 576 pixels with PAL and SECAM
- Up to 320- by 240-pixel capture up to 15 frames per second with NTSC
- Maximum capture size of 640 by 480 pixels with NTSC

Graphics support

- 2MB of VRAM, expandable to 4MB
- Fast 64-bit data path to VRAM
- Support for display resolutions of up to 1,280 by 1,024 pixels
- 24-bit color up to 1,152- by 870-pixel resolution
- Refresh rate of up to 75 Hz

GeoPort telephony*

- 14.4-Kbit/s modem support
- V.17 fax support
- GeoPort Fax and GeoPort Telephony software included
- Speakerphone and answering-machine capability

Clock/calendar

- Custom integrated circuit with long-life battery

Keyboard and mouse

- Supports ADB keyboards with numeric keypads
- Comes with an ADB Mouse II

Electrical requirements and compliance

- Line voltage: 100 to 240 V AC, RMS single phase
- Frequency: 50 to 60 Hz, single phase
- Power: 150 W maximum, not including display

ADB power requirements

- Maximum current draw for all devices: 500 mA (a maximum of three ADB devices is recommended)
- Mouse draws 10 mA
- Keyboard draws 25 to 80 mA (varies with keyboard used)

Size and weight

- Height: 6.15 in. (15.6 cm)
- Width: 14.37 in. (36.5 cm)
- Depth: 16.93 in. (43.0 cm)
- Weight: 22 lb. (9.97 kg)

Environmental requirements

- Operating temperature: 50° to 104° F (10° to 40° C)
- Storage temperature: -40° to 116° F (-40° to 47° C)
- Relative humidity: 5% to 95% noncondensing
- Maximum altitude: 10,000 ft. (3,048 m)

* Requires GeoPort Telecom Adapter

Apple Computer, Inc.
1 Infinite Loop
Cupertino, CA 95014
(408) 996-1010
<http://www.apple.com>

© 1996 Apple Computer, Inc. All rights reserved. Apple, the Apple logo, Apple SuperDrive, AppleTalk, GeoPort, LocalTalk, Macintosh, PlainTalk, Power Macintosh, ProDOS, and QuickTime are trademarks of Apple Computer, Inc., registered in the U.S.A. and other countries. AppleCD and Mac are trademarks of Apple Computer, Inc. MS-DOS and Windows are registered trademarks of Microsoft Corporation. OS/2 is a trademark of International Business Machines Corporation; PowerPC is a trademark of International Business Machines Corporation, used under license therefrom. Mention of non-Apple products is for informational purposes only and constitutes neither an endorsement nor a recommendation. Apple assumes no responsibility with regard to the selection, performance, or use of these products. All understandings, agreements, or warranties, if any, take place between the vendors and the prospective users. April 1996. Product specifications are subject to change without notice. Printed in the U.S.A. L01072B



Power Macintosh 6500 Series

Home, Small Business, and Creative Studio Editions

Features

Outstanding performance

- RISC-based PowerPC 603e processor running at 225, 250, 275, or 300 MHz
- Built-in 256K or 512K level 2 cache
- 32MB RAM minimum

Dazzling multimedia

- Hardware acceleration of 2-D and 3-D graphics, video capture, and QuickTime and MPEG-1 movie playback
- 24-bit color support on 14-, 15-, and 17-inch monitors (diagonal measurement)
- Built-in 12x-speed, tray-loading CD-ROM drive
- 16-bit CD-quality stereo sound with SRS surround sound and integrated dual-mode subwoofer

Easy Internet access

- Internal fax/data/voice modem that supports data speeds up to 33.6 Kbits/s
- Preinstalled software for quick, easy web browsing, e-mail send/receive, file transfer, audio and videoconferencing, and even personal web-site creation

Expandability and flexibility

- Rugged mini-tower design with two industry-standard PCI expansion slots
- Built-in 100MB Zip drive on several models (models without Zip drive have a precabled SCSI expansion bay)
- Support of exciting options such as the Avid Cinema video-editing system and the Apple TV/FM Radio System*
- True plug-and-play installation of expansion cards, storage devices, scanners, printers, digital cameras, and other accessories

Valuable software

- Includes a broad range of software carefully chosen to meet the needs of home users, small businesses, and creative individuals**

*Avid Cinema and Apple TV/FM Radio System included on Creative Studio

**Contents of software bundles vary by model

The Apple Power Macintosh 6500 is the most powerful, expandable, and feature-rich Macintosh computer designed specifically for home, small business, and creative applications. The blazing speed of the PowerPC processor—combined with hardware acceleration of graphics and video—enables users to accomplish tasks previously possible only on expensive professional workstations.

Whether you are videoconferencing over the Internet, playing the hottest game titles, creating a video with a soundtrack you composed, or browsing the World Wide Web, the Power Macintosh 6500 will make your experience easy, snappy, and fun.

Breakthrough performance starts with being the world's first personal computer to run at up to 300 megahertz. Each model then adds *at least* 256K of level 2 cache, 32 megabytes of RAM, a 3-gigabyte hard disk drive, and a 12x-speed CD-ROM drive. Some models even feature a built-in Zip drive for backing up or transporting your data on pocket-sized 100-megabyte disks. A built-in 33.6-kilobit-per-second modem* makes exchanging e-mail, faxes, or voice mail, as well as “surfing” the Internet, a snap.

But Apple engineers didn't stop there: They tuned the entire system to handle the rich media types common on today's Internet and CD-ROMs, without sacrificing “rock-solid” stability and ease of use.

The advanced video/graphics subsystem speeds manipulation of complex 2-D documents through QuickDraw acceleration; enables immersive 3-D games and interactive 3-D modeling with QuickDraw 3D acceleration; and delivers full-screen, full-motion movie playback through QuickTime and MPEG acceleration.

Throw in awesome CD-quality audio from the integrated subwoofer and 24-bit color support on displays up to 17 inches, and you're ready to do virtually anything you want to do with a computer.

And to get you started, each model comes bundled with valuable software. The Home Editions include more than two dozen software titles carefully selected for family and home use. The Small Business Edition offers applications tailored to the needs of those running a small or home-based business. The Creative Studio includes award-winning hardware and software for creating, editing, and publishing your own videos, music, art, 3-D models and animations, photos, and web sites.

And when it comes time to expand your system, you can do so with a variety of Apple or third-party options easily installed into the mini-tower enclosure.

The Power Macintosh 6500 series: With the software and the hardware to carry you well into the 21st century, they're the Macintosh systems you've been waiting for.

*Data speeds up to 33.6 Kbits/s, fax speeds up to 14.4 Kbits/s





Power Macintosh 6500 Series

Home, Small Business, and Creative Studio Editions

Ordering Information

All systems come with a PowerPC 603e processor, 12x-speed CD-ROM drive, 1.4MB floppy disk drive, and 33.6-Kbit/s modem*. A mouse, keyboard, cables, and appropriate software for each edition are also included.

Power Macintosh 6500/225 Home Edition
Order No. M5611LL/A

Power Macintosh 6500/250 Home Edition
Order No. M5648LL/A

Power Macintosh 6500/300 Home Edition
Order No. M6079LL/A

Power Macintosh 6500/250 Small Business Edition
Order No. M5612LL/A

Power Macintosh 6500/275 Creative Studio
Order No. M5854LL/A

Optional Enhancements

Apple Video System

Order No. 2894LL/D
For video input (NTSC, PAL, and SECAM)

Avid Cinema Video Editing System

Order No. M4561LL/A
For video editing and output (NTSC and PAL); requires Apple Video System

Apple TV/FM Radio System

Order No. M4586LL/A
For playing TV and FM radio stations on the computer; requires Apple Video System

*Data speeds up to 33.6 Kbits/s, fax speeds up to 14.4 Kbits/s

Product specifications are subject to change. Check with your Apple reseller for the most current information about product specifications and configurations.

Apple Computer, Inc.
1 Infinite Loop
Cupertino, CA 95014
(408) 996-1010
<http://www.apple.com/>

Technical Specifications

Microprocessor

- PowerPC 603e processor running at 225, 250, 275, or 300 MHz (with 32K internal cache)
- 32 integer registers and 32 floating-point registers
- 256K or 512K level 2 cache

Memory

- Comes with 32MB, 48MB, or 64MB of EDO RAM
- Can be expanded to 128MB via 2 DIMM slots
- Uses 168-pin, noncomposite, 60-nanosecond or faster EDO DIMMs (1K or 2K refresh, 5 volt)

Disk drives

- Internal 3GB or 4GB IDE hard disk drive
- Internal 1.4MB Apple SuperDrive floppy disk drive — Reads, writes, and formats Macintosh, Windows, MS-DOS, OS/2, and ProDOS disks
- Internal 12x-speed CD-ROM drive
- Internal 100MB Zip drive (factory-installed on some models only)

Modem

- Built-in 33.6-Kbit/s data/voice/fax modem*
- Voice-mail, caller ID, and speakerphone capabilities
- Built-in error correction and compression (MNP4, V.42, MNP5, V.42bis)

Interfaces

- Two PCI expansion slots (require 7-inch PCI cards that come with a Macintosh driver and are PCI 2.0-compliant; NuBus cards cannot be used)
- PCI-based communications slot (used by the built-in modem)
- SCSI interface port for connecting as many as six external SCSI devices (five additional on models that have an internal Zip drive)
- Precabled SCSI expansion bay for additional 5.25-inch internal SCSI device (used by internal Zip drive on some models)
- Apple Desktop Bus port for mouse, keyboard, and other devices
- Two serial ports (RS-232/RS-422); one port is used by the built-in modem

- Video-input slot for optional Apple Video System card (included on Creative Studio)
- Expansion bay for optional Apple TV/FM Radio System (included on Creative Studio)
- Infrared receiver for remote control (provided with Apple TV/FM Radio System)

Electrical requirements

- Line voltage: 100 to 125 or 200 to 240 volts AC
- Frequency: 47 to 63 Hz
- Power: 220 W maximum (continuous)
- Energy-saving sleep mode

Size and weight

- Height: 16 in. (40.6 cm)
- Width: 7.8 in. (19.8 cm)
- Depth: 16.9 in. (42.8 cm)
- Weight: 44.5 lb. (20.2 kg)

Operating environment

- Operating temperature: 50° to 104° F (10° to 40° C)
- Storage temperature: -40° to 116° F (-40° to 47° C)
- Relative humidity: 5% to 95%, noncondensing
- Maximum altitude: 10,000 ft. (3,048 m)

Audio

- 16-bit, CD-quality stereo input/output ports
- SRS 3-D surround sound enhancement
- Integrated dual-mode subwoofer
- Front headphone jack and volume control

Display support

- 2MB of SGRAM video memory
- 24-bit color for display of up to 16 million colors at resolutions up to 800 by 600 pixels on monitors up to 17 inches (diagonal measurement)
- 16-bit color for display of up to 32,768 colors at resolutions up to 1,152 by 870 pixels on monitors up to 21 inches (diagonal measurement)
- Refresh rates up to 85 Hz

Graphics and multimedia

- ATI 3D Rage II 64-bit multimedia and graphics accelerator chip for faster, smoother video capture; acceleration of QuickDraw (2-D) and QuickDraw 3D graphics and QuickTime and MPEG-1 movie playback

Power Macintosh	6500/225	6500/250	6500/250	6500/275	6500/300
Order No.	M5611LL/A	M5648LL/A	M5612LL/A	M5854LL/A	M6079LL/A
Processor Speed	225 MHz	250 MHz	250 MHz	275 MHz	300 MHz
Level 2 Cache	256KB	256KB	256KB	512KB	512KB
System RAM	32MB	32MB	48MB	32MB	64MB
Hard Disk Drive	3.0GB	4.0GB	4.0GB	4.0GB	4.0GB
12x CD-ROM Drive	✓	✓	✓	✓	✓
100MB Zip Drive		✓	✓		✓
33.6-Kbit/s Modem	✓	✓	✓	✓	✓
Options Included				Avid Cinema, Apple Video System, TV/FM Radio System	
Edition	Home	Home	Small Business	Creative Studio	Home

© 1997 Apple Computer, Inc. All rights reserved. Apple, the Apple logo, Apple SuperDrive, Macintosh, ProDOS, Power Macintosh, QuickDraw, and QuickTime are trademarks of Apple Computer, Inc., registered in the U.S.A. and other countries. Avid is a trademark of Avid Technology, Inc., registered in the U.S.A. and other countries. NuBus is a trademark of Texas Instruments. PowerPC is a trademark of International Business Machines Corporation, used under license therefrom. The word "SRS" is a registered trademark of SRS Labs, Inc. Mention of non-Apple products is for informational purposes only and constitutes neither an endorsement nor a recommendation. Apple assumes no responsibility with regard to the selection, performance, or use of these products. All understandings, agreements, or warranties, if any, take place directly between the vendors and the prospective users.
April 1997. Product specifications are subject to change without notice. Printed in U.S.A.
L02327A



Power Macintosh 7300 series

Features

High performance

- 180-MHz or 200-MHz PowerPC 604e processor
- Built-in floating-point processor and 64K cache
- Standard 256K level 2 cache

Communications and multimedia

- Two high-speed serial ports compatible with GeoPort devices and LocalTalk cables
- 12x-speed CD-ROM drive
- 16-bit stereo audio input and output
- 64-bit VRAM subsystem

Expandability

- Removable processor card allows for upgrade to 233-MHz processor (planned for Fall '97)
- Three industry-standard PCI expansion slots
- SCSI connector for hard disks, CD-ROM drives, and other SCSI devices
- Internal expansion bay for additional 3.5-inch storage device
- Up to 512MB of RAM
- Up to 4MB of VRAM

Compatibility

- Includes 10BASE-T and AAUI Ethernet connectors
- Supports Open Transport networking software (TCP/IP and AppleTalk)
- Runs 680x0 Macintosh applications as well as applications accelerated for Power Macintosh computers
- Reads Mac OS, Windows, MS-DOS, OS/2, and ProDOS floppy disk formats
- Runs MS-DOS and Windows applications via either of two optional PC Compatibility Cards from Apple
- Comes with all of the software required for Internet access

System 7.5.5 software

- Makes working with different applications consistent, so they're easier to learn and use
- Allows easy customization of your Macintosh to reflect the way you work
- Provides active assistance in learning new features with Apple Guide
- Includes MacLinkPlus file translation software from DataViz

The Apple Power Macintosh 7300 series combines affordability and high performance to provide an ideal system for small and medium-size businesses, for home offices, and for running productivity or multimedia applications in organizations of any size. Based on high-performance RISC technology, the Power Macintosh 7300 series models feature a 180- or 200-megahertz PowerPC 604e processor.

The three industry-standard Peripheral Component Interconnect (PCI) high-performance expansion slots on the Power Macintosh 7300 series let you customize these computers easily to meet your needs more precisely. You can find PCI cards for a variety of uses, including graphics, storage, and high-speed networking. And if you want to use your Power Macintosh 7300 system to run MS-DOS and Windows applications as well as software written for the Macintosh, you can install a PC Compatibility Card from Apple in one of the system's PCI slots—and switch instantly between computing environments.

Connecting your Apple Power Macintosh 7300 series computer to an Ethernet network is easy. It includes both AAUI and 10BASE-T connectors. If you're interested in multimedia, you'll be glad to know that the Power Macintosh 7300 series features a 12x-speed CD-ROM drive.

Today, more and more computer users are discovering the wealth of information and communications resources and opportunities offered by the Internet. The Power Macintosh 7300 makes it easy to get involved in this rapidly expanding community, because it comes with all of the software you need for easy Internet access—including the Apple Internet Connection Kit and America Online.

So whether you need power and expandability for everyday number crunching, office productivity, or an innovative multimedia project—or want a fast, easy way to get started with the Internet—the Apple Power Macintosh 7300 series computers offer the features you need, with room to grow at an affordable price.





Power Macintosh 7300 series

Ordering Information

Power Macintosh 7300/180

Order No. M4946LL/A

- Power Macintosh 7300/180 computer with 16MB of RAM, a built-in 1.4MB Apple SuperDrive floppy disk drive, an internal 2GB hard disk drive, and an internal 12x-speed CD-ROM drive. Includes keyboard and mouse, PlainTalk microphone, system software version 7.5.5 or later; Internet access software; complete setup, learning, and reference documentation; and limited warranty.

Power Macintosh 7300/200

Order No. M5543LL/A

Same as Order No. M4946LL/A, except with 200-MHz PowerPC 604e processor and 32MB of RAM

PC Compatibility Card Solutions

Order No. M4092LL/A

- PC Compatibility Card with 100-MHz Pentium processor

Order No. M4091LL/C

- PC Compatibility Card with 100-MHz 586 processor

GeoPort Telecom Adapter Kit

Order No. M5438LL/A

Product specifications are subject to change. Check with your Apple reseller for the most current information about product specifications and configurations.

Technical Specifications

Processor

- 180- or 200-MHz PowerPC 604e microprocessor
- Integrated floating-point unit and 64K cache

Memory

- 16MB (7300/180) or 32MB (7300/200) of RAM, expandable to 512MB via 8 DIMM sockets
- 4MB of ROM
- Standard 256K level 2 cache on DIMM socket

Disk drives

- Internal 2GB SCSI hard disk
- Internal Apple SuperDrive floppy disk drive
 - Accepts high-density 1.4MB disks and 800K disks
 - Reads, writes, and formats Macintosh, Windows, MS-DOS, OS/2, and ProDOS disks
- Internal 12x-speed CD-ROM drive
- Expansion bay for additional 3.5-inch hard disk

Interfaces

- Three PCI expansion slots compatible with PCI 2.0-compliant cards
- Two high-speed DMA serial (RS-232/RS-422) ports compatible with LocalTalk cables and GeoPort devices
- 10BASE-T and AAUI-15 Ethernet connectors (optional PC Compatibility Cards provide multinode support for simultaneous network connections)
- Internal Fast SCSI bus (up to 10MB/s)
- External Standard SCSI bus (up to 5MB/s)
- Apple Desktop Bus (ADB) expansion port
- Mini jacks for stereo audio input and output
 - 16-bit audio
 - Up to 44.1-kHz sampling rate
- DB-15 connector for monitor

Graphics support

- 2MB of VRAM, expandable to 4MB via four connectors
- 64-bit data path to VRAM
- Support for display resolutions of up to 1,280 by 1,024 pixels
- 24-bit color up to 1,024- by 768-pixel resolution
- Refresh rate of up to 75 Hz

GeoPort telephony support*

- 28.8-Kbit/s modem support
- V.17 fax support
- Speakerphone and answering-machine capability

Clock/calendar

- Custom integrated circuit with long-life battery

Keyboard and mouse

- Includes keyboard and ADB Mouse II

Electrical requirements

- Line voltage: 100 to 125/220 V AC, RMS single phase
- Frequency: 50 to 60 Hz, single phase
- Power: 150 W maximum, not including display

ADB power requirements

- Maximum current draw for all devices: 500 mA (a maximum of three ADB devices is recommended)
- Mouse draws 10 mA
- Keyboard draws 25 to 80 mA (varies with keyboard used)

Size and weight

- Height: 6.15 in. (15.6 cm)
- Width: 14.37 in. (36.5 cm)
- Depth: 16.93 in. (43.0 cm)
- Weight: 22 lb. (9.97 kg)

Environmental requirements

- Operating temperature: 50° to 104° F (10° to 40° C)
- Storage temperature: -40° to 116° F (-40° to 47° C)
- Relative humidity: 5% to 95% noncondensing
- Maximum altitude: 10,000 ft. (3,048 m)

*Requires GeoPort Telecom Adapter Kit



Workgroup Server 7250/120

Features

Expansion and storage

- Three PCI (Peripheral Component Interconnect) slots for expansion cards
- Internal 1.2GB, 5400-rpm hard disk drive and room for one additional storage device
- Internal quadruple-speed CD-ROM drive
- One SCSI DMA bus to support up to seven devices (three internal, four external)
- Eight ports to support a wide range of peripherals

Networking

- Built-in Ethernet and LocalTalk capabilities
- Support for AppleTalk and TCP/IP networking protocols
- Token Ring support optional (with PCI card)

Power, speed, and memory

- 120-MHz PowerPC 601 RISC processor with floating-point processor and 32K on-chip cache
- 256K level 2 cache
- 16MB of RAM, expandable to 256MB

Fast, easy setup

- Comes with System 7.5.3 software installed
- Includes AppleShare 4.2.1 file and print server software (some configurations)

Compatibility

- Comes with AppleShare Client for Windows

Bundled software

- Includes a variety of software for administration, reliability, productivity, and performance

Service and support

- Hardware troubleshooting for the life of the server; 90 days of assistance for Apple-branded software (phone support)
- One-year, on-site hardware warranty providing two-business-day response
- Additional service and support available

The Workgroup Server 7250/120 is an affordable and versatile member of the PowerPC processor-based Workgroup Server family from Apple. It delivers the file and print, database, Internet, and applications server capabilities that meet the needs of medium-sized workgroups in education, business, and publishing. And it's ideal for workgroups that use both Macintosh and Windows software-based computers.

Apple Workgroup Servers are highly reliable, affordable, high-performance systems with large storage capacity that provide organizations with faster, more efficient shared network services and secure centralized storage. The Workgroup Server 7250/120 not only meets these criteria, but also runs the familiar graphical interface of the Mac OS, making all of its capabilities incredibly easy to use.

Featuring a 120-megahertz PowerPC 601 processor with 32K on-chip cache and 256K level 2 memory cache, the Workgroup Server 7250/120 delivers outstanding performance. And for easy, flexible expansion, the Workgroup Server 7250/120 features three PCI slots that let you add capabilities by installing any of a variety of cards.

To make sure that network administrators can work as efficiently as possible, and that users get the most out of all that power and capacity, the Workgroup Server 7250/120 offers a choice of three software bundle solutions. The Applications Server Solution provides a variety of useful Apple and third-party software for administration, reliability, productivity, and performance. The AppleShare Server Solution includes all of the software that comes with the Applications Server, plus a new version of AppleShare file and print server, remote administration software from Santorini, and Apple Remote Access MultiPort Server software. And the Apple Internet Server Solution comes with all the software you need to create a presence on the World Wide Web—quickly and easily. No matter which option you choose, the Workgroup Server 7250/120 also includes AppleShare Client for Windows software, so Windows users on the network can access networked printers and files stored on a Workgroup Server running AppleShare file and print software.

So if you want a server that can accommodate today's budget and expand to handle tomorrow's demands, the Workgroup Server 7250/120 is the server you've been waiting for.





Workgroup Server 7250/120

Ordering Information

Workgroup Server 7250/120

(16MB/1.2GB/CD)
(Applications Server Solution)
Order No. M4335LL/A

- 256K level 2 cache, 1.4MB Apple SuperDrive floppy disk drive, and mouse
- System software version 7.5.3
- Server Solutions CD and other bundled software

Workgroup Server 7250/120

(16MB/1.2GB/CD)
(AppleShare Server Solution)
Order No. M4336LL/A

- Identical to Order No. M4335LL/A, plus AppleShare 4.2.1, Apple Remote Access MultiPort Server software, and Server Manager from Santorini

Workgroup Server 7250/120

(16MB/1.2GB/CD)
(Internet Server Solution for the World Wide Web)
Order No. M4337LL/A

- 256K level 2 cache, 1.4MB Apple SuperDrive floppy disk drive, and mouse
- System software version 7.5.3
- Apple Internet Server Solution CD (WebSTAR; PageMill; license for MacDNS domain name server software; NetCloak; ServerStat; RealAudio; Acrobat Pro; HyperCard; Web connectivity software for your existing EveryWare Butler SQL and FileMaker Pro databases; Navigator; BBEEdit; clickable maps, e-mail, and database AppleSearch CGIs; customizable WWW pages and forms; AppleScript and useful scripting additions; AppleSearch; Apple RAID; AppleShare Client for Windows). Does not include Workgroup Server Solutions CD, AppleShare 4.2.1, or Server Manager.

Included with all Workgroup Servers:

- Complete setup, learning, and reference documentation
- Limited one-year hardware warranty

Macintosh Memory Expansion Kits

A variety of memory expansion kits are available. 168-pin DIMMs are required. Check with your Apple reseller for details.

Product specifications are subject to change. Check with your Apple reseller for the most current information about product specifications and configurations.

Apple Computer, Inc.
1 Infinite Loop
Cupertino, CA 95014
(408) 996-1010
<http://www.apple.com/>

Technical Specifications

Microprocessor

- PowerPC 601 RISC processor running at 120-MHz
- Integrated floating-point unit and 32K on-chip cache
- 256K level 2 cache

Memory

- 16MB of RAM, expandable to 256MB

Storage

- Internal 1.2GB hard disk drive; supports one additional storage device
- One AppleCD 600i CD-ROM drive (up to 600KB/s data-transfer rate)
- One Apple SuperDrive 1.4MB floppy disk drive that reads, writes, and formats Mac OS, Windows, MS-DOS, and OS/2 disks

Bundled software/Server Solutions CD

Administrative software

- Server Manager—remote AppleShare server management tools (with AppleShare Server Solution only)
- FileWave—automated software and data distribution
- netOctopus—setup assessment and configuration file editing
- Adobe Acrobat Reader—viewing application for portable document format (PDF) files

Reliability software

- Apple RAID Software—data mirroring to protect against drive failures (RAID 1)
- Virex—automated virus screening and virus check software
- Retrospect Remote—automated backup software (DAT configurations only)

Productivity software

- AppleShare Client for Windows—enables Windows clients to connect to an AppleShare server
- 4-Sight FAX—lets you send and receive faxes from your desktop
- Now Contact—provides contact management tools
- Now Up-to-Date—handles group scheduling
- Viper Instant-Access—provides a cross-platform information retrieval system

Performance software

- Apple RAID Software—optimizes performance of multiple hard disks through disk striping (RAID 0)
- Skyline/Satellite—enables monitoring of the network and server traffic over time

Note: The only software bundled with the 7250/120 Apple Internet Server Solution is Apple RAID Software, AppleShare Client for Windows, and the Internet Server Solution CD.

Networking

- Built-in Ethernet with 10Base-T and AAUI
- Two serial ports for LocalTalk
- Supports TCP/IP networking software with Apple Open Transport software

Displays

- Supports up to 14-inch Apple displays at up to millions of colors; 16- and 17-inch Apple displays at up to thousands of colors
- Supports most third-party displays as well as VGA and SVGA monitors

Video support

- Built-in 1MB VRAM display support

Interfaces

- Three PCI expansion slots
- One Apple Desktop Bus (ADB) port for a keyboard, mouse, and other devices
- On-board Ethernet using either AAUI-15 or RJ-45
- Two DMA serial (RS-232/RS-422) ports compatible with LocalTalk
- SCSI DMA bus supports up to four external and three internal SCSI devices
- 16-bit stereo sound input and output ports

Clock/calendar

- Custom integrated circuit with long-life lithium battery

Disability access

- System software includes CloseView and Easy Access, and provides the ability to substitute visual cue for beep. These built-in solutions and third-party options provide alternative input and output solutions for people with disabilities.

Keyboard and mouse

- Supports ADB keyboards with numeric keypads
- ADB Mouse II included

Electrical requirements

- Line voltage: 100 to 270 V AC, RMS single phase
- Frequency: 50 to 60 Hz, single phase
- Power: 150 W maximum, not including display

ADB power requirements

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

Operating environment

- Operating temperature: 50° to 104° F (10° to 40° C)
- Storage temperature: -40° to 116.6° F (-40° to 47° C)
- Relative humidity: 5% to 95% noncondensing
- Altitude: 0 to 10,000 ft. (0 to 3,048 m)

Size and weight

- Height: 6.5 in. (15.6 cm)
- Width: 14.37 in. (36.5 cm)
- Depth: 16.93 in. (43.0 cm)
- Weight: 22 lb. (9.97 kg)—varies based on internal devices installed

Regulatory approval

- FCC Class B

© 1995 Apple Computer, Inc. All rights reserved. Apple, the Apple logo, AppleScript, AppleSearch, AppleShare, Apple SuperDrive, AppleTalk, HyperCard, LocalTalk, Macintosh, and Power Macintosh are trademarks of Apple Computer, Inc., registered in the U.S.A. and other countries. Apple Desktop Bus, Mac, and MacDNS are trademarks of Apple Computer, Inc. Adobe and Acrobat are trademarks of Adobe Systems Incorporated or its subsidiaries and may be registered in certain jurisdictions. FileMaker Pro is a trademark of Claris Corporation. MS-DOS and Windows are registered trademarks of Microsoft Corporation. OS/2 is a registered trademark and PowerPC is a trademark of International Business Machines Corporation, used under license therefrom. Mention of non-Apple products is for informational purposes only and constitutes neither an endorsement nor a recommendation. Apple assumes no responsibility with regard to the selection, performance, or use of these products. All understandings, agreements, or warranties, if any, take place directly between the vendors and the prospective users.

December 1995. Product specifications are subject to change without notice. Printed in U.S.A.
L01647A



Workgroup Server 7350/180

Features

Expansion and storage

- Three PCI (Peripheral Component Interconnect) slots for expansion cards
- Internal 4GB hard drive
- One open expansion bay
- Internal 12x-speed CD-ROM drive
- Two SCSI channels: one internal Fast SCSI-2 (10MB/s); one external SCSI-1

Networking

- Built-in Ethernet and LocalTalk capabilities
- Support for AppleTalk and TCP/IP networking protocols
- Support for other networking topologies like Fast Ethernet, ATM, and Token Ring (with PCI card)

Processor and memory

- 180-MHz PowerPC 604e RISC processor with floating-point processor and 64K on-chip cache, mounted on a removable card
- 256K level 2 cache
- 48MB of RAM, expandable to 512MB

Features Built into Every Workgroup Server

Fast, easy setup

- Comes with Mac OS 7.6.1 software installed
- Is extraordinarily easy to configure—features the true plug-and-play capabilities that characterize Apple systems

Bundled software

- Apple RAID software for disk striping (RAID 0) or mirroring (RAID 1)
- Choice of three software bundle solutions, so you get the functionality you want—right out of the box
 - Application Server Solution
 - AppleShare Server Solution
 - Apple Internet Server Solution

Service and support

- Includes hardware troubleshooting and telephone assistance for Apple-branded software for one year (7 days per week, 24 hours per day)
- Provides two-business-day response through its one-year, on-site hardware warranty
- Offers additional service and support options

The Workgroup Server 7350/180 is an affordable and versatile member of the Workgroup Server family from Apple. Based on the PowerPC processor, it delivers the file, print, Internet/intranet, and applications server capabilities that meet the needs of medium-sized workgroups in education, business, and publishing. It's ideal for workgroups that use both Mac OS and Windows, especially those interested in setting up an organizational intranet that's exceptionally easy to use, support, and maintain.

Apple Workgroup Servers are highly reliable systems that provide organizations with faster, more efficient network services and secure centralized storage. The Workgroup Server 7350/180 not only meets these criteria, but also runs the familiar Mac OS, making all of its capabilities both outstandingly flexible and incredibly easy to use.

Featuring a 180-megahertz PowerPC 604e processor on a CPU card, 256K level 2 cache, 48MB of RAM (expandable to 512MB), a 4GB hard disk drive, and a 12x-speed CD-ROM drive, the Workgroup Server 7350/180 delivers excellent performance. It also offers powerful built-in networking, with both 10BASE-T and AAUI Ethernet connections. And for easy, flexible

expansion, the Workgroup Server 7350/180 features three PCI slots that let you add capabilities by installing a wide variety of cards, as well as an open expansion bay for an additional hard drive or other removable media.

The Workgroup Server 7350/180 offers a choice of three software bundle solutions. The *Application Server Solution* provides a variety of useful software for reliability, productivity, and performance. The *AppleShare Server Solution* includes all of the Application Server software, plus AppleShare IP 5.0 and the RunShare GSA network accelerator. This new server software from Apple builds on the AppleShare tradition of ease of use to add integrated support for TCP/IP as well as AppleTalk—so you can incorporate a Workgroup Server into your intranet easily and seamlessly. It even includes several third-party Internet-related tools that allow you to integrate the network services into your environment.

The *Apple Internet Server Solution* includes software necessary to create, manage, and publish media-rich World Wide Web content—quickly and easily.

So if you want a server that can accommodate today's budget and offers features and options designed to carry it into the future, the Workgroup Server 7350/180 is the server you've been waiting for.





Workgroup Server 7350/180

Ordering Information

Workgroup Server 7350/180 Application Server Solution

Order No. M5639LL/A

- Workgroup Server 7350/180 with 48MB of RAM, 256K level 2 cache, 4GB hard disk drive, internal 12x-speed CD-ROM drive, 1.4MB Apple SuperDrive floppy disk drive, keyboard, and mouse
- Apple RAID 1.5
- Workgroup Server Solution CD
- Mac OS 7.6.1

AppleShare Server Solution

Order No. M5641LL/A

- Includes all of the hardware and software that comes with the Application Server Solution, plus:
- AppleShare IP 5.0, AppleShare Client for Windows, Server Manager, Vicom Internet Gateway with DHCP, LogDoor, HomePage, and Claris Emailer
- RunShare GSA network accelerator from Run

Apple Internet Server Solution

Order No. M5642LL/A

- Workgroup Server 7350/180 with 48MB of RAM, 256K level 2 cache, 4GB hard disk drive, internal 12x-speed CD-ROM drive, 1.4MB Apple SuperDrive floppy disk drive, keyboard, and mouse
- Apple RAID 1.5
- Mac OS 7.6.1
- Includes WebStar/SSL, Tango Enterprise, Acrobat Reader, BEdit, HomePage, LogDoor, MacDNS, NetCloak, Netscape Navigator, and PageSentry, along with other useful applications and web information

Included with all Workgroup Servers

- Complete setup, learning, and reference documentation
- One-year telephone support (7 days per week, 24 hours per day)
- Limited one-year hardware warranty

Technical Specifications

Microprocessor

- 180-MHz PowerPC 604e RISC processor
- Integrated floating-point unit and 64K on-chip cache
- Processor mounted on a removable card

Memory

- 48MB of RAM, expandable to 512MB
- 256K level 2 cache

Storage

- Internal 4GB hard disk drive (5400 rpm)
- Open expansion bay
- 12x-speed CD-ROM drive
- 1.4MB Apple SuperDrive floppy disk drive that reads, writes, and formats Mac OS, Windows, MS-DOS, and OS/2 disks

Networking

- Built-in Ethernet with 10BASE-T and AAUI
- Two serial ports for LocalTalk
- Support of TCP/IP networking software with Apple Open Transport

Interfaces

- Three PCI expansion slots
- One Apple Desktop Bus (ADB) port for a keyboard, mouse, and other devices
- On-board Ethernet using either AAUI-15 or RJ-45
- Two DMA serial (RS-232/RS-422) ports compatible with LocalTalk
- Two SCSI channels: one internal Fast SCSI-2 (10MB/s); one external SCSI-1
- 16-bit stereo sound input and output ports
- DB-15 graphics port for display support

Video support

- Built-in 2MB of VRAM, expandable to 4MB
- Support of most third-party displays as well as VGA and SVGA monitors

Clock/calendar

- Custom integrated circuit with long-life lithium battery

Disability access

- System software includes CloseView and Easy Access, and provides the ability to substitute visual cue for beep. These built-in solutions and third-party options provide alternative input and output solutions for people with disabilities.

Keyboard and mouse

- ADB keyboard included
- ADB Mouse II included

Electrical requirements

- Line voltage: 100 to 125/200 V AC, RMS single phase
- Frequency: 50 to 60 Hz, single phase
- Power: 150 W maximum, not including display

ADB power requirements

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

Environmental requirements

- Operating temperature: 50° to 104° F (10° to 40° C)
- Storage temperature: -40° to 116.6° F (-40° to 47° C)
- Relative humidity: 5% to 95% noncondensing
- Maximum altitude: 0 to 10,000 ft. (0 to 3,048 m)

Size and weight

- Height: 6.5 in. (15.6 cm)
- Width: 14.37 in. (36.5 cm)
- Depth: 16.93 in. (43.0 cm)
- Weight: 22.0 lb. (9.97 kg)—varies based on internal devices installed

Regulatory approval

- FCC Class B

Workgroup Server Solution CD/Bundled Software

Reliability software

- Apple RAID Software—data mirroring to protect against data loss from drive failures (RAID 1)
- Virex—automated virus screening software

Performance software

- Apple RAID Software—optimizes performance of multiple hard disks through disk striping (RAID 0)
- Skyline/Satellite—enables monitoring of the network and server traffic

Productivity software

- 4-Sight FAX—lets you send and receive faxes from your desktop
- Now Contact & Up-to-Date—provides contact management tools and handles group scheduling
- Viper Instant-Access—offers a cross-platform information retrieval system

Product specifications are subject to change. Check with your Apple reseller for the most current information about product specifications and configurations.

Apple Computer, Inc.
1 Infinite Loop
Cupertino, CA 95014
(408) 996-1010
<http://www.apple.com/>

© 1997 Apple Computer, Inc. All rights reserved. Apple, the Apple logo, Apple SuperDrive, AppleShare, AppleTalk, LocalTalk, Mac, MacDNS, and Macintosh are trademarks of Apple Computer, Inc., registered in the U.S.A. and other countries. Claris Emailer is a trademark of Claris Corporation. Acrobat is a trademark of Adobe Systems Incorporated and may be registered in certain jurisdictions. Netscape Navigator is a trademark of Netscape Communications Corporation. PowerPC is a trademark of International Business Machines Corporation, used under license therefrom. Other trademarks mentioned in this data sheet are used expressly for identification purposes. Most company names and product titles are trademarks of their respective companies. Mention of non-Apple products is for informational purposes only and constitutes neither an endorsement nor a recommendation. Apple assumes no responsibility with regard to the selection, performance, or use of these products. All understandings, agreements, or warranties, if any, take place directly between the vendors and the prospective users.

April 1997. Product specifications are subject to change without notice. Printed in U.S.A.
102198A



Workgroup Server 8550/132

Features

Expansion and storage

- Three PCI (Peripheral Component Interconnect) slots for expansion cards
- Internal 2GB, 7200-rpm hard disk drive, with bracket and cable for a second drive
- Internal quadruple-speed CD-ROM drive
- Internal DDS-2 digital audio tape (DAT) drive (some configurations)
- Two SCSI DMA buses to support up to eight devices and transfers up to 10MB/s (internal only)
- Eight ports to support a wide range of peripherals

Networking

- Built-in Ethernet and LocalTalk capabilities
- Support for AppleTalk and TCP/IP networking protocols
- Token Ring support optional (with PCI card)

Power, speed, and memory

- 132-MHz PowerPC 604 RISC processor with floating-point processor and 32K on-chip cache on an upgradable CPU card
- 512K level 2 cache
- 24MB of RAM, expandable to 512MB

Fast, easy setup

- Comes with System 7.5.3 software installed
- Includes AppleShare 4.2.1 file and print server software (some configurations)

Compatibility

- Comes with AppleShare Client for Windows

Bundled software

- Includes a variety of software for administration, reliability, productivity, and performance

Service and support

- Hardware troubleshooting for the life of the server; 90 days of assistance for Apple-branded software (phone support)
- One-year, on-site hardware warranty providing two-business-day response
- Additional service and support available

The Workgroup Server 8550/132 is the most powerful member of the PowerPC processor-based Workgroup Server family from Apple. It delivers file and print, database, Internet, and communications capabilities that meet the needs of growing workgroups in education, business, and publishing. And it's ideal for workgroups that use both Macintosh and Windows software-based computers.

Apple Workgroup Servers are highly reliable, high-performance systems with large storage capacity that provide organizations with faster, more efficient shared network services and secure centralized storage. And the Workgroup Server 8550/132 not only meets these criteria, but also runs the familiar graphical interface of the Mac OS, making all of its capabilities incredibly easy to use.

Featuring a 132-megahertz PowerPC 604 processor with 32K on-chip cache and 512K level 2 memory cache, the Workgroup Server 8550/132 delivers all the performance benefits of state-of-the-art RISC technology. And for easy, flexible expansion, the Workgroup Server 8550/132 features three PCI slots that let you add capabilities by installing any of a variety of cards.

To make sure that network administrators can work as efficiently as possible, and that users get the most out of all that power and capacity,

the Workgroup Server 8550/132 offers a choice of three software bundle solutions. The Applications Server Solution provides a variety of useful Apple and third-party software for administration, reliability, productivity, and performance. The AppleShare Server Solution includes all of the software that comes with the Applications Server, plus a new version of AppleShare file and print server, remote administration software from Santorini, and Apple Remote Access MultiPort Server software. And the Apple Internet Server Solution comes with all the software you need to create a presence on the World Wide Web—quickly, easily, and affordably. No matter which option you choose, the Workgroup Server 8550/132 also includes AppleShare Client for Windows software, so Windows users on the network can access networked printers and files stored on a Workgroup Server running AppleShare file and print software.

So if you need a high-performance server for a demanding workgroup, we have the solution—the powerful and expandable Workgroup Server 8550/132.





Workgroup Server 8550/132

Ordering Information

Workgroup Server 8550/132

(24MB/2GB/CD/DAT)

(Applications Server Solution)

Order No. M4342LL/A

- 512K level 2 cache, 1.4MB Apple SuperDrive floppy disk drive, and mouse
- System software version 7.5.3
- Server Solutions CD and other bundled software

Workgroup Server 8550/132

(24MB/2GB/CD/DAT)

(AppleShare Server Solution)

Order No. M4340LL/A

- Identical to Order No. M4342LL/A, plus AppleShare 4.2.1, Apple Remote Access MultiPort Server software, and Server Manager from Santorini

Workgroup Server 8550/132

(24MB/2GB/CD)

Order No. M4343LL/A

- AppleShare Server Solution without a DAT drive or Retrospect Remote software

Workgroup Server 8550/132

(24MB/2GB/CD)

(Internet Server Solution for the World Wide Web)

Order No. M4341LL/A

- 512K level 2 cache, 1.4MB Apple SuperDrive floppy disk drive, and mouse
- System software version 7.5.3
- Apple Internet Server Solution CD (WebSTAR; PageMill; license for MacDNS domain name server software; NetCloak; ServerStat; RealAudio; Acrobat Pro; HyperCard; Web connectivity software for your existing EveryWare Butler SQL and FileMaker Pro databases; Navigator; BBEEdit; clickable maps, e-mail, and database AppleSearch CGIs; customizable WWW pages and forms; AppleScript and scripting additions; AppleSearch; Apple RAID; AppleShare Client for Windows). Does not include Workgroup Server Solutions CD, AppleShare 4.2.1, or Server Manager.

Included with all Workgroup Servers:

- Complete setup, learning, and reference documentation
- Limited one-year hardware warranty

Workgroup Server 8550/132

Logic Board Upgrade

Order No. M4607LL/A

- Upgrades a Workgroup Server 80, 8150, or 8150/110 to a Workgroup Server 8550/132
- Includes Apple RAID Software, AppleShare 4.2.1 Update Kit, and System 7.5.3 software. Additional RAM is required

Macintosh Memory Expansion Kits

A variety of memory expansion kits are available. 168-pin DIMMs are required. Check with your Apple reseller for details.

Apple Computer, Inc.

1 Infinite Loop

Cupertino, CA 95014

(408) 996-1010

<http://www.apple.com/>

Technical Specifications

Microprocessor

- PowerPC 604 RISC processor running at 132-MHz, located on upgradable CPU card
- Integrated floating-point unit and 32K on-chip cache
- 512K level 2 cache

Memory

- 24MB of RAM, expandable to 512MB

Storage

- Internal 2GB hard disk drive, with bracket and cable for a second drive
- One DDS-2 DAT drive—4GB uncompressed, 14GB compressed (some configurations)
- One AppleCD 600i CD-ROM drive (up to 600KB/s data-transfer rate)
- One Apple SuperDrive 1.4MB floppy disk drive that reads, writes, and formats Mac OS, Windows, MS-DOS, and OS/2 disks

Bundled software/Server Solutions CD

Administrative software

- Server Manager—remote AppleShare server management tools (with AppleShare Solution only)
- FileWave—automated software and data distribution
- netOctopus—setup assessment and configuration file editing
- Adobe Acrobat Reader—viewing application for portable document format (PDF) files

Reliability software

- Apple RAID Software—data mirroring to protect against drive failures (RAID 1)
- Retrospect Remote—automated backup software (DAT configurations only)
- Virex—automated virus screening and virus check

Productivity software

- AppleShare Client for Windows—enables Windows clients to connect to an AppleShare server
- 4-Sight FAX—lets you send and receive faxes from your desktop
- Now Contact—provides contact management tools
- Now Up•to•Date—handles group scheduling
- Viper Instant-Access—provides a cross-platform information retrieval system

Performance software

- Apple RAID Software—optimizes performance of multiple hard disks through disk striping (RAID 0)
- Skyline/Satellite—enables monitoring of the network and server traffic over time

Note: The only software bundled with the 8550/132 Apple Internet Server Solution for the World Wide Web is Apple RAID Software, AppleShare Client for Windows, and the Internet Server Solution CD.

Networking

- Built-in Ethernet with 10Base-T and AAUI
- Two serial ports for LocalTalk

Product specifications are subject to change. Check with your Apple reseller for the most current information about product specifications and configurations.

© 1995 Apple Computer, Inc. All rights reserved. Apple, the Apple logo, AppleScript, AppleSearch, AppleShare, Apple SuperDrive, AppleTalk, HyperCard, LocalTalk, Macintosh, and Power Macintosh are trademarks of Apple Computer, Inc., registered in the U.S.A. and other countries. Apple Desktop Bus, Mac, and MacDNS are trademarks of Apple Computer, Inc. Adobe and Acrobat are trademarks of Adobe Systems Incorporated or its subsidiaries and may be registered in certain jurisdictions. FileMaker Pro is a trademark of Claris Corporation. MS-DOS and Windows are registered trademarks of Microsoft Corporation. OS/2 is a registered trademark and PowerPC is a trademark of International Business Machines Corporation, used under license therefrom. Mention of non-Apple products is for informational purposes only and constitutes neither an endorsement nor a recommendation. Apple assumes no responsibility with regard to the selection, performance, or use of these products. All understandings, agreements, or warranties, if any, take place directly between the vendors and the prospective users.
December 1995. Product specifications are subject to change without notice. Printed in U.S.A.
L01650A

- Supports TCP/IP networking software with Apple Open Transport

Displays

- Supports up to 14-inch Apple displays at millions of colors; 16- and 17-inch Apple displays at up to millions of colors
- Supports most third-party displays as well as VGA and SVGA monitors

Video support

- Built-in 2MB VRAM display support

Interfaces

- Three PCI expansion slots
- One Apple Desktop Bus (ADB) port for a keyboard, mouse, and other devices
- On-board Ethernet using either AAUI-15 or RJ-45
- Two DMA serial (RS-232/RS-422) ports compatible with LocalTalk
- Two SCSI DMA buses supporting up to eight SCSI devices and transfers up to 10MB/s (internal bus only)
- 16-bit stereo sound input and output ports
- DB-15 video port for display support

Clock/calendar

- Custom integrated circuit with long-life lithium battery

Disability access

- System software includes CloseView and Easy Access, and can substitute visual cue for beep. Built-in solutions and third-party options provide alternative input and output solutions for people with disabilities.

Keyboard and mouse

- Supports ADB keyboards with numeric keypads
- ADB Mouse II included

Electrical requirements

- Line voltage: 100 to 240 V AC, RMS single phase, automatically configured
- Frequency: 50 to 60 Hz, single phase
- Power: 225 W maximum, not including display

ADB power requirements

- Maximum current draw for all ADB devices: 500 mA (a maximum of three ADB devices is recommended)
- Mouse draws 10 mA; keyboard draws 25 to 80 mA (varies with keyboard model used)

Operating environment

- Operating temperature: 50° to 104° F (10° to 40° C)
- Storage temperature: -40° to 116.6° F (-40° to 47° C)
- Relative humidity: 5% to 95% noncondensing
- Altitude: 0 to 10,000 ft. (0 to 3,048 m)

Size and weight

- Height: 14 in. (35.6 cm)
- Width: 7.7 in. (19.6 cm)
- Depth: 15.75 in. (40.0 cm)
- Weight: 25 lb. (11.3 kg)—varies based on internal devices installed

Regulatory approval

- FCC Class A



Workgroup Server 9650/233

Features

Expansion and storage

- Six PCI (Peripheral Component Interconnect) slots for expansion cards
- Internal 4GB Ultra/Wide hard disk drive (optional configuration with dual 4GB Ultra/Wide drives)
- Internal 12x-speed CD-ROM drive
- Three SCSI channels: one internal Ultra/Wide SCSI-3 (40MB/s); one internal Fast SCSI-2; one external SCSI-1

Networking

- Built-in Ethernet and LocalTalk capabilities
- Support for AppleTalk and TCP/IP networking protocols
- Support for other networking topologies like Fast Ethernet, ATM, and Token Ring (with PCI card)

Processor and memory

- 233-MHz PowerPC 604e RISC processor with floating-point processor and 64K on-chip cache, mounted on a removable card for easy upgrades as faster processors become available
- 512K level 2 cache
- 64MB of RAM, expandable to 768MB

Features Built into Every Workgroup Server

Fast, easy setup

- Comes with Mac OS 7.6.1 software installed
- Is extraordinarily easy to configure—features the true plug-and-play capabilities that characterize Apple systems

Bundled software

- Apple RAID software for disk striping (RAID 0) or mirroring (RAID 1)
- Choice of three software bundle solutions, so you get the functionality you want—right out of the box

- Application Server Solution
- AppleShare Server Solution
- Apple Internet Server Solution

Service and support

- Includes hardware troubleshooting and telephone assistance for Apple-branded software for one year (7 days per week, 24 hours per day)
- Provides two-business-day response through its one-year, on-site hardware warranty
- Offers additional service and support options

The Workgroup Server 9650/233 is a powerful member of the Workgroup Server family from Apple. Based on the PowerPC processor, it delivers the file, print, Internet/intranet, and applications server capabilities that meet the needs of growing workgroups in education, business, and publishing. It's ideal for workgroups that use both Mac OS and Windows, especially those interested in setting up an intranet that's exceptionally easy to use, support, and maintain.

Apple Workgroup Servers are highly reliable systems with large storage capacity that provide organizations with faster, more efficient network services and secure centralized storage. The Workgroup Server 9650/233 not only meets these criteria, but also runs the familiar Mac OS, making all of its capabilities incredibly easy to use.

The Workgroup Server 9650/233 offers outstanding performance through its 233-megahertz PowerPC 604e processor, located on a CPU card; 512K level 2 cache; 64MB of RAM (expandable to 768MB); three SCSI channels, including one Ultra/Wide channel (40MB/s); a single or dual 4GB (7200 rpm) Ultra/Wide hard drive; 12x-speed CD-ROM drive; and on some configurations, a DDS-2 digital audio tape (DAT) drive for backup. It also provides powerful built-in networking capabilities, with both 10BASE-T and AAUI Ethernet connections.

The Workgroup Server 9650/233 features a new product design that provides easy access for upgrades and servicing. And for easy, flexible expansion, it offers six PCI slots that let you add capabilities by installing a wide variety of cards, as well as six internal drive bays (three or four open, depending

on configuration) to maximize storage capacity.

The Workgroup Server 9650/233 offers a choice of three software bundle solutions. The *Application Server Solution* provides a variety of useful software for reliability, productivity, and performance. The *AppleShare Server Solution* includes all of the Application Server software, plus AppleShare IP 5.0 and the RunShare GSA network accelerator. This new server software from Apple builds on the AppleShare tradition of ease of use to add integrated support for TCP/IP as well as AppleTalk—so you can incorporate a Workgroup Server into your intranet easily and seamlessly. It even includes several third-party Internet-related tools that allow you to integrate the network services into your environment. The *Apple Internet Server Solution* includes the software necessary to create, manage, and publish media-rich World Wide Web content—quickly and easily.

So if you need a high-performance server for a demanding workgroup, we have the solution: the powerful and expandable Workgroup Server 9650/233.





Workgroup Server 9650/233

Ordering Information

Workgroup Server 9650/233 Application Server Solution

Order No. M5646LL/A

- Workgroup Server 9650/233 with 64MB of RAM, 512K level 2 cache, dual 4GB (7200 rpm) Ultra/Wide hard drives, internal 12x-speed CD-ROM drive, 1.4MB Apple SuperDrive floppy disk drive, keyboard, and mouse
- Apple RAID 1.5
- Workgroup Server Solution CD
- Mac OS 7.6.1

AppleShare Server Solution

Order No. M5644LL/A

- Includes all of the hardware and software that comes with the Application Server, plus;
- AppleShare IP 5.0, AppleShare Client for Windows, COPSTalk, Server Manager, Vicom Gateway with DHCP, LogDoor, HomePage, and Claris Emailer
- RunShare GSA network accelerator from Run

AppleShare Server Solution with DAT drive

Order No. M5647LL/A

- Workgroup Server 9650/233 with 64MB of RAM, 512K level 2 cache, 4GB (7200 rpm) Ultra/Wide hard disk drive, DDS-2 DAT drive, internal 12x-speed CD-ROM drive, 1.4MB Apple SuperDrive floppy disk drive, keyboard, and mouse
- Workgroup Server Solution CD
- AppleShare IP 5.0, AppleShare Client for Windows, COPSTalk, Server Manager, Vicom Internet Gateway with DHCP, LogDoor, HomePage, and Claris Emailer
- RunShare GSA network accelerator
- Retrospect Remote
- Mac OS 7.6.1

Apple Internet Server Solution

Order No. M5645LL/A

- Workgroup Server 9650/233 with 64MB of RAM, 512K level 2 cache, 4GB (7200 rpm) Ultra/Wide hard disk drive, keyboard, internal 12x-speed CD-ROM drive, 1.4MB Apple SuperDrive floppy disk drive, and mouse
- Apple RAID 1.5
- Mac OS 7.6.1
- Includes WebStar/SSL, Tango Enterprise, Acrobat Reader, BEdit, HomePage, LogDoor, MacDNS, NetCloak, Netscape Navigator, and PageSentry, along with other useful applications and web information

Apple Computer, Inc.

1 Infinite Loop
Cupertino, CA 95014
(408) 996-1010
<http://www.apple.com/>

Technical Specifications

Microprocessor

- 233-MHz PowerPC 604e RISC processor
- Integrated floating-point unit and 64K on-chip cache
- Processor mounted on a removable card for easy upgrades as faster processors become available

Memory

- 64MB of RAM, expandable to 768MB
- 512K level 2 cache

Storage

- Internal 4GB (7200 rpm) Ultra/Wide hard drive (optional configuration with dual 4GB Ultra/Wide drives)
- 12x-speed CD-ROM drive
- 1.4MB Apple SuperDrive floppy disk drive that reads, writes, and formats Mac OS, Windows, MS-DOS, and OS/2 disks
- DDS-2 DAT drive (4GB uncompressed to 14GB compressed) in some configurations

Networking

- Built-in Ethernet with 10BASE-T and AAUI
- Two serial ports for LocalTalk
- Support of TCP/IP networking software with Apple Open Transport

Interfaces

- Six PCI expansion slots (one used by Ultra/Wide SCSI card and one used by video card)
- One Apple Desktop Bus (ADB) port for a keyboard, mouse, and other devices
- On-board Ethernet using either AAUI-15 or RJ-45
- Two DMA serial (RS-232/RS-422) ports compatible with LocalTalk
- Three SCSI channels: one internal Ultra/Wide SCSI-3 (40MB/s) on PCI card; one internal Fast SCSI-2 (10MB/s); one external standard SCSI-1 (5MB/s)
- 16-bit stereo sound input and output ports
- DB-15 graphics port for display support on PCI card

Video support

- 4MB of VRAM on the included PCI video card
- Support of most third-party displays as well as VGA and SVGA monitors

Clock/calendar

- Custom integrated circuit with long-life lithium battery

Disability access

- System software includes CloseView and Easy Access, and provides the ability to substitute visual cue for beep. These built-in solutions and third-party options provide alternative input and output solutions for people with disabilities.

Keyboard and mouse

- ADB keyboard included
- ADB Mouse II included

Electrical requirements

- Line voltage: 100 to 125/200 V AC, RMS single phase
- Frequency: 50 to 60 Hz, single phase
- Power: 390 W maximum, not including display

ADB power requirements

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

Environmental requirements

- Operating temperature: 50° to 95° F (10° to 35° C)
- Storage temperature: -40° to 116.6° F (-40° to 47° C)
- Relative humidity: 5% to 95% noncondensing
- Maximum altitude: 0 to 10,000 ft. (0 to 3,048 m)

Size and weight

- Height: 17.3 in. (43.9 cm)
- Width: 9.7 in. (24.6 cm)
- Depth: 17.3 in. (44.0 cm)
- Weight: 35.0 lb. (15.9 kg)—varies based on internal devices installed

Regulatory approval

- FCC Class A

Workgroup Server Solution CD/Bundled software

Reliability software

- Apple RAID Software—data mirroring to protect against data loss from drive failures (RAID 1)
- Retrospect Remote—automated backup software for the server as well as client workstations, including Mac OS, Windows 95, and Windows NT clients (DAT configurations only)
- Virex—automated virus screening software

Performance software

- Apple RAID Software—optimizes performance of multiple hard disks through disk striping (RAID 0)
- Skyline/Satellite—enables monitoring of the network and server traffic

Productivity software

- 4-Sight FAX—lets you send and receive faxes from your desktop
- Now Contact & Up-to-Date—provides contact management tools and handles group scheduling
- Viper Instant-Access—offers a cross-platform information retrieval system

Product specifications are subject to change. Check with your Apple reseller for the most current information about product specifications and configurations.

© 1997 Apple Computer, Inc. All rights reserved. Apple, the Apple logo, Apple SuperDrive, AppleShare, AppleTalk, LocalTalk, Mac, MacDNS, and Macintosh are trademarks of Apple Computer, Inc., registered in the U.S.A. and other countries. Claris Emailer is a trademark of Claris Corporation. Acrobat is a trademark of Adobe Systems Incorporated and may be registered in certain jurisdictions. Netscape Navigator is a trademark of Netscape Communications Corporation. PowerPC is a trademark of International Business Machines Corporation, used under license therefrom. Other trademarks mentioned in this data sheet are used expressly for identification purposes. Most company names and product titles are trademarks of their respective companies. Mention of non-Apple products is for informational purposes only and constitutes neither an endorsement nor a recommendation. Apple assumes no responsibility with regard to the selection, performance, or use of these products. All understandings, agreements, or warranties, if any, take place directly between the vendors and the prospective users. April 1997. Product specifications are subject to change without notice. Printed in U.S.A. L02142A



Apple Color StyleWriter 4100

Features

Easy, affordable four-color printing

- Features a convenient dual-cartridge ink system, making it easy and inexpensive to give your documents the impact of true four-color printing without switching ink cartridges

Outstanding print quality and speed

- Prints high-resolution documents: up to 600 by 600 dots per inch for black and white and up to 600 by 300 dots per inch for color
- Prints quickly—up to 4 pages per minute—so you can enjoy quality results fast
- Provides excellent color choice and quality, with its true four-color printing and software support for millions of colors
- Takes advantage of ColorSync color-matching technology, for the best possible match between the colors you see on your screen and the colors you see on the printed page
- Uses pigment-based black ink, which provides crisp, dark black printing that's also water-resistant
- Lets you work with scalable TrueType fonts—so you can customize any document

A complete solution—with extras

- Includes everything you need to get started printing quickly and easily: printer software, both color and black ink cartridges, and a serial cable
- Features bundled software that lets you create everything from greeting cards and calendars to iron-on T-shirt transfers
- Increases your options for self-expression through additional clip-art graphics and photographic images

Convenient setup and use

- Supports quick connection to—and easy software installation on—virtually any Mac OS-based computer
- Includes a built-in 100-sheet paper tray that lets you work with everything from plain and glossy paper to envelopes, labels, and transparencies
- Offers features designed to streamline the printing process, such as print preview, manual two-sided printing, and back-to-front printing

The Apple Color StyleWriter 4100 is a high-quality, four-color ink-jet printer that will meet the needs—and exceed the expectations—of many home, education, and home office users who work with Mac OS-based computers. Affordable yet advanced, the Color StyleWriter 4100 is much more than simply a convenient, complete color printing solution: It's also optimized for productivity, learning, and family fun.

Specifically designed to complement the capabilities of Mac OS-based computers, the Apple Color StyleWriter 4100 offers outstanding print performance for both black and white and color. For text, it prints crisp, laser-quality output at speeds of up to four pages per minute. For color, it can use Apple's ColorSync technology to provide the best possible match between what you see on the screen and your printed output. And the Color StyleWriter 4100 features a

dual-cartridge ink system that makes four-color printing more convenient and economical than ever.

You'll also be happy to discover that the Color StyleWriter 4100 is exceptionally easy to use. It comes complete with both the color and the black ink cartridges, software, and a serial cable for simple connection to virtually any Mac OS-based computer.

But the real excitement of the Color StyleWriter 4100 isn't about all the things that it can do—it's about all the things that you can do with it. This flexible color printer gives you a range of options for self-expression including software designed to help you print everything from greeting cards to T-shirt transfers, a library of images, and a variety of fonts that make it easy to customize your creations.

So if you want an easy, affordable, and complete color printing solution that provides outstanding flexibility, the Color StyleWriter 4100 is ideal.





Apple Color StyleWriter 4500

Features

Amazing photorealistic color images—right out of the box

- Comes with everything you need—including ink cartridges, a serial cable, and even paper samples—to print photorealistic color images and color and black-and-white documents

A multimedia printing solution

- Features bundled photo-editing software that lets you create and print everything from family photos to personalized T-shirt transfers
- Includes additional bundled applications that let you customize banners, greeting cards, and calendars, and design web pages

Outstanding print quality and speed

- Prints high-resolution documents: up to 600 by 600 dots per inch for black and white and up to 600 by 300 dots per inch for color
- Prints at speeds of up to 5 pages per minute in black and white and 1.7 pages per minute in color—so you can enjoy quality results fast
- Takes advantage of ColorSync color-matching technology, for the best possible match between the colors you see on your screen and the colors you see on the printed page
- Uses pigment-based black ink, which provides crisp, dark black printing that's also water-resistant
- Lets you work with scalable fonts—so you can customize your documents

Convenient setup and use

- Supports quick connection to—and easy software installation on—virtually any Mac OS-based computer
- Includes built-in paper trays that let you work with a variety of media, including plain and coated paper, envelopes, index cards, labels, transparencies, and continuous-feed banner pages
- Offers software features designed to streamline the printing process, such as print preview, manual two-sided printing, and back-to-front printing

The Apple Color StyleWriter 4500 is a high-quality, photorealistic color printer with the versatility to let you tackle everything from standard business documents to creative multimedia printing projects. It's ideal for home, education, and even small-business users who want a convenient, extraordinarily flexible printer that expands their choices for communicating ideas effectively.

Apple Color StyleWriter printers are designed to work seamlessly with Mac OS-based computers, and provide excellent print quality and speed. The Apple Color StyleWriter 4500 produces crisp, laser-quality black text at speeds of up to five pages per minute, and can print on virtually any type of media—from index cards and envelopes to plain paper and transparencies to banner paper.

But color capabilities are where this printer truly shines. In addition to supporting Apple's ColorSync color-matching technology, the Color StyleWriter 4500 comes with everything required to let you get started printing true photorealistic images

within minutes, using a combination of six color inks to print up to millions of colors. So you can take your favorite digital image—whether it was captured using a digital camera or a scanner, imported from a CD-ROM of stock images, or downloaded from the Internet—and print it out in vivid color.

If the ability to print photorealistic images sparks your creativity, you'll be glad to know that the Color StyleWriter 4500 also comes with a number of features designed to support your creative impulses. You get software that can help you with multimedia printing projects ranging from tiny postcards to immense banners—including a vast library of images. There's even an application that can help you create geneologies or company organizational charts and get them ready to post to the Internet World Wide Web.

So if you want a high-quality color printer that can improve your productivity and enhance your creativity, the Apple Color StyleWriter 4500 is the one for you.





Apple Color StyleWriter 4500

Ordering Information

Apple Color StyleWriter 4500

Order No. M5663LL/A

- Apple Color StyleWriter 4500 printer
- CD-ROM containing the following:
 - Apple Color StyleWriter 4500 printer software
 - PictureWorks' PhotoEnhancer Plus
 - Mindscape's PrintMaster Gold
 - Nova's Art Explosion Sampler
 - Kaetron's Stencil It! and Web It!
 - Bitstream TrueType Fonts
- Color PhotoGrade Ink Cartridge
- Color Ink Cartridge
- Black Ink Cartridge
- Ink Cartridge storage case
- Two Color PhotoGrade paper samples
- Peripheral-8 serial cable
- AC power adapter
- User's manual

Color PhotoGrade Ink Cartridge

Order No. M5692G/A

Color Ink Cartridge

Order No. M5694G/A

Black Ink Cartridge

Order No. M5693G/A

Apple High-Quality Papers

Media	Letter size	A4 size
Premium Plus Paper	M4792G/A	M4791G/A
Glossy Paper	M3655G/A	M3656G/A
Color PhotoGrade Paper	M5961G/A	M5962G/A
Transparency	M2658G/A	M1959G/A
Banner Paper	M5963G/A	M5964G/A
Greeting Card Kit	M5965G/A	M5966G/A

Product specifications are subject to change. Check with your Apple reseller for the most current information about product specifications and configurations.

Technical Specifications

Print method

- Thermal ink jet (4-/6-color ink)

Print resolution

- Up to 600- by 600-dpi using the black ink cartridge on plain paper
- Up to 600- by 300-dpi using the Color PhotoGrade and color ink cartridges on virtually any paper type
- Up to 600- by 300-dpi using the color ink cartridge on glossy or coated paper and transparencies
- Up to 300- by 300-dpi using the color ink cartridge on virtually any paper type

Speed

- Up to 5 pages per minute for black and white
- Approximately 4 minutes per page for Color PhotoGrade (5- by 7-inch photo)
- Up to 1.7 pages per minute for color
- Actual speed depends on the documents printed and the computer used

Interfaces

- RS-422 port supports high-speed serial connection

Fonts

- Up to 64 TrueType fonts (see the chart below for samples of the available fonts)
- Adobe PostScript font support when used with Adobe Type Manager software (sold separately)

Dual-cartridge ink system

- Color PhotoGrade Ink Cartridge (PhotoGrade: cyan, magenta, and black)
- Color Ink Cartridge (Cyan, Magenta, and Yellow)
- Black Ink Cartridge

Paper handling

- Multipurpose tray that can accommodate up to 100 sheets, 50 transparencies, 20 envelopes, 30 cards, or 20 continuous-banner pages
- Single-envelope slot (allows you to print one envelope without removing paper from the multipurpose tray)

Print materials

- 16- to 36-lb. (60 to 136 g/m²) bond or copier paper
- Paper: U.S. letter, U.S. legal, banner, executive, A4, A4 banner
- Envelopes: #10, C6, DL, A2
- Other sizes: A5, B5-JS, 4- by 6-inch or 5- by 8-inch cards, A6 card, Hagaki card

Size and weight

- Height: 7.8 in. (19.9 cm)
- Width: 17.2 in. (43.6 cm)
- Depth: 15.9 in. (40.5 cm)
- Weight: 11.7 lb. (5.3 kg)

Power requirements

- 120 (±10%) volts AC; 60 Hz (±3 Hz)
- 220, 230, or 240 (±10%) volts AC; 50 Hz (±3 Hz)

Power consumption

- Operating mode: 12 W (maximum)

Operating environment

- Temperature: 59° to 95° F (15° to 35° C)
- Humidity: 10% to 80% noncondensing

System requirements

- An Apple Macintosh or other Mac OS-based personal computer with a PowerPC processor and at least 8MB of RAM, or a 68030 or later processor and at least 4MB of RAM
- System software version 7.1 or later
- A CD-ROM drive for installing the complete printer software

ITC Avant Garde	Make a difference with type.	Monaco	Make a difference with type.
ITC Bookman	Make a difference with type.	Nadienne	Make a difference with type.
Chicago	Make a difference with type.	New Century Schoolbook	Make a difference with type.
Courier	Make a difference with type.	New York	Make a difference with type.
Delphian	MAKE A DIFFERENCE WITH TYPE.	Old English Text	Make a difference with type.
ITC Garamond Narrow	Make a difference with type.	Onyx Narrow	Make a difference with type.
Geneva	Make a difference with type.	Oxford	Make a difference with type.
Helvetica	Make a difference with type.	Palatino	Make a difference with type.
Helvetica Black	Make a difference with type.	Swing	Make a difference with type.
Helvetica Compressed	Make a difference with type.	Symbol	Make a difference with type.
Helvetica Narrow	Make a difference with type.	Times	Make a difference with type.
ITC Lubalin Graph	Make a difference with type.	ITC Zapf Chancery	Make a difference with type.
Lucida Bright	Make a difference with type.	ITC Zapf Dingbats	Make a difference with type.
ITC Machine	MAKE A DIFFERENCE WITH TYPE.	Zeal	Make a difference with type.

Apple Computer, Inc.
 1 Infinite Loop
 Cupertino, CA 95014
 (408) 996-1010
<http://www.apple.com/>
<http://www.imaging.apple.com/>

© 1997 Apple Computer, Inc. All rights reserved. Apple, the Apple logo, Chicago, ColorSync, EtherTalk, LocalTalk, Mac, Macintosh, Monaco, New York, StyleWriter, TrueType, and Zeal are trademarks of Apple Computer, Inc., registered in the U.S.A. and other countries. Geneva is a trademark of Apple Computer, Inc. Adobe and PostScript are trademarks of Adobe Systems Incorporated or its subsidiaries and may be registered in certain jurisdictions. PowerPC is a trademark of International Business Machines Corporation, used under license therefrom. Helvetica, Palatino, and Times are registered trademarks of Linotype-Hell AG and/or its subsidiaries. ITC Bookman, ITC Garamond, ITC Zapf Chancery, and ITC Zapf Dingbats are registered trademarks of International Typeface Corporation. Mention of non-Apple products is for informational purposes only and constitutes neither an endorsement nor a recommendation. Apple assumes no responsibility with regard to the selection, performance, or use of these products. All understandings, agreements, or warranties, if any, take place directly between the vendors and the prospective users.
 May 1997. Product specifications are subject to change without notice. Printed in U.S.A.
 102321A





Apple Color StyleWriter 6500

Features

Professional print quality—fast

- Prints high-resolution documents: up to 600 by 600 dots per inch for black and white and up to 600 by 300 dots per inch for color
- Prints at speeds of up to 8 pages per minute in black and white and 4 pages per minute in color—so you get high-quality output quickly
- Provides excellent color accuracy and quality, with ColorSync color matching
- Uses pigment-based black ink, which provides crisp, clear black printing that's also water-resistant
- Lets you work with a variety of media sizes and types, including plain and glossy paper, envelopes, transparencies, cards, and labels
- Provides the versatility of a wide variety of scalable TrueType fonts

Outstanding compatibility and flexible connectivity

- Comes with built-in support for computers running the Mac OS, Windows 95, or Windows 3.1
- Provides flexible connectivity through its RS-422 port for LocalTalk or high-speed serial connections to a Macintosh, and through its IEEE 1284B port for parallel connections to a PC
- Offers EtherTalk support with the optional Apple StyleWriter EtherTalk Adapter II

Convenient setup and use

- Includes unique, intuitive Apple printer software, as well as PC software, both color and black ink cartridges, and a Macintosh peripheral-8 serial cable that makes it easy to set up and use your printer, so you can get started printing right away
- Features a versatile 150-sheet paper tray that supports printing on a wide variety of paper and media
- Comes with exceptional third-party software that allows Macintosh users to improve their productivity, as well as printer driver software that includes special features such as the ability to create your own paper sizes, add watermarks to the background of documents, print two or four reduced-size pages on one sheet, and print right from your desktop

Dependability and efficiency

- Features a robust product design constructed to stand up to the rigorous demands created by the modern-day workload
- Uses large-capacity ink tanks, for an economical cost per page
- Is U.S. Energy Star compliant—reducing power consumption and saving energy costs

The Apple Color StyleWriter 6500 is a high-performance four-color printer that combines a durable product design with additional attributes that make you more productive, including exceptional ease of use and compatibility with computers running the Mac OS, Windows 95, Windows 3.1, and DOS. This multiplatform, professional-quality printer will help make you—and your documents—look good.

The Apple Color StyleWriter 6500 prints at resolutions of up to 600 by 600 dots per inch for black-and-white documents and up to 600 by 300 dots per inch for vivid color output. With its impressive speed—up to 8 pages per minute for black and white and 4 pages per minute for color—and large-capacity ink tanks, the Color StyleWriter 6500 is the clear choice for anyone who needs superior-quality printed output produced quickly and economically.

High performance and affordable operation are only two aspects of this printer's all-around value. For example, because many organizations today use a variety of computers, the Color StyleWriter 6500 supports not only Mac OS-based systems, but also PCs running Windows 95, Windows 3.1, and DOS. In fact, everything from its quick, easy setup to its multipurpose paper-handling capabilities to its bundled software for the Macintosh (which includes popular productivity tools) makes the Color StyleWriter 6500 ideal for anyone who wants exceptional-quality printing right from their desktop.

If you're seeking a powerful, versatile color printer that can meet the needs of businesses and educational institutions for great-looking printed pages, stop looking—and start using the Color StyleWriter 6500 to present your ideas in the best possible light.





Apple LaserWriter 8500

Features

Ground-breaking new capabilities

- Is one of the first printers based on Adobe PostScript 3
- Offers full-bleed printing on various paper sizes including ledger/A3
- Easily print to the LaserWriter 8500 from remote locations using the LaserWriter 8.5 IP printing software feature

High-speed, high-volume printing

- Takes advantage of a fast RISC processor and a powerful 20-page-per-minute engine making it the fastest LaserWriter ever
- Optional LaserWriter 8500 *Plus* Upgrade Kit offers the ultimate in high-volume printing convenience
- Supports an optional Duplex Printing Unit with a job sorting/jogger function
- Uses a high-capacity, long-life toner cartridge (up to 14,000 pages)

Outstanding compatibility and connectivity

- Works with Mac OS, Windows 3.1, Windows 95, Windows NT, and UNIX systems
- Supports AppleTalk, EtherTalk, Novell NetWare, and TCP/IP networking protocols
- Supports Microsoft Windows Plug and Play for easy PC connection

Superior print quality

- Offers improved PhotoGrade and FinePrint technologies for impressive photorealistic images and precise, sharp text
- Offers settings of up to 150 lines per inch for unsurpassed image quality

Flexible paper handling

- Includes built-in support for 650 sheets (150 sheets can be up to 13 by 20 inches); and up to 1,650 sheets using additional paper feeders
- Features a range of easy-to-install options such as duplexing and extra paper trays, designed to save you time and money
- Prints on a wide variety of media (from postcards to 13- by 20-inch paper)

The LaserWriter 8500 is Apple's premier, professional-quality workgroup printing solution. It's the ideal choice for anyone who wants to print high volumes or complex documents quickly and with superior quality.

Breaking new ground in advanced printing capabilities, the LaserWriter 8500 takes advantage of Adobe's new PostScript 3 language to provide higher performance, enhanced image quality, and advanced page processing. It also offers another Apple first that print professionals will find especially exciting: support for full-bleed printing on various paper sizes, up to ledger/A3. And its blazingly fast, 20-page-per-minute print speed and RISC processor set a new record for LaserWriter performance.

In fact, the LaserWriter 8500 offers a host of features designed to speed—and enhance—the efforts of today's busy workgroups. For high-volume printing, it can be configured to handle up to 1,650 sheets. For easy integration into mixed computing environments, it's compatible with Mac OS, Windows 3.1,

Windows 95, Windows NT, and UNIX systems, and supports most popular networking protocols. And its unique LaserWriter 8.5 IP printing software allows you to print to the LaserWriter 8500 via the Internet. But whether you're printing from right down the hall or all the way around the globe, you'll enjoy the same superior results: impressive photorealistic images and precise, sharp text, using Apple's PhotoGrade and FinePrint technologies.

Finally, the LaserWriter 8500 offers a range of easy-to-install options to meet even the most demanding printing needs. For the ultimate in convenience, you can opt for the LaserWriter 8500 *Plus* Upgrade Kit, which includes the 500-Sheet Ledger/A3 Cassette and Feeder, the Duplex Printing Unit, plus an additional 8 megabytes of RAM. Or you can purchase options separately, as needed.

Featuring speed and versatility on a grand scale, the LaserWriter 8500 is—quite simply—the ultimate choice for users who want nothing less than the state of the art in laser printing features and functionality.





Apple LaserWriter 8500

Ordering Information

Apple LaserWriter 8500

Order No. M5571LL/A

- Apple LaserWriter 8500 printer
- CD-ROM containing the Apple LaserWriter 8500 printer driver software for the Mac OS and Windows and the following software titles:
 - Nova's Art Explosion Sampler
 - Now Up•to•Date & Contact
 - Adobe Acrobat Reader
- High-Capacity Toner Cartridge
- User's Guide (printed and online)

Apple LaserWriter 8500 Plus Upgrade Kit

Order No. M6102G/A

Includes LaserWriter 8500 500-Sheet Ledger/A3 Cassette and Feeder, Duplex Printing Unit, and additional 8MB of RAM

LaserWriter 8500 Duplex Printing Unit

Order No. M5896G/A

LaserWriter 8500 500-Sheet Ledger/A3 Cassette and Feeder

Order No. M5894G/A

LaserWriter 8500 500-Sheet Letter/A4 Cassette and Feeder

Order No. M5895G/A

LaserWriter 8500 75-Envelope Cassette

Order No. M5897G/A

High-Capacity Toner Cartridge

Order No. M5893G/A

Technical Specifications

Print engine and controller

- AMD 29040 RISC processor used at 60/30-MHz
- Duty cycle: 50,000 pages per month
- Engine life: 650,000 pages

Print quality

- 600-dpi resolution
- Improved PhotoGrade
- Built-in support for FinePrint
- Adobe PostScript 3

Memory

- 16MB of RAM standard
- Support for up to 48MB, using industry-standard 72-pin SIMMs

Interfaces

- LocalTalk port (AppleTalk)
- 1284 Bidirectional parallel port
- Ethernet port (Apple AAUI and Twisted Pair)
- Support of EtherTalk, TCP/IP, and Novell IPX connections
- SCSI port for connecting external hard disk drive

Print speed

- 20 pages per minute maximum (actual speed varies depending on images printed and computer used)
- 11 pages per minute for ledger, A3, or larger paper

Fonts

- 136 Adobe PostScript 3 fonts (including Type 1 and TrueType)

Languages supported

- Adobe PostScript 3

Paper handling

- 500-Sheet Letter/A4 Cassette
- 150-Sheet multipurpose tray (supports standard and large-format paper, 30 transparencies, 75 postcards, and 10 envelopes)
- Options:
 - LaserWriter 8500 Plus Upgrade Kit (includes the 500-Sheet Ledger/A3 Cassette and Feeder, the Duplex Printing Unit, and an additional 8MB of RAM)
 - Duplex Printing Unit
 - 500-Sheet Ledger/A3 Cassette and Feeder
 - 500-Sheet Letter/A4 Cassette and Feeder
 - 75-Envelope Cassette

Print materials

- Plain paper, transparencies, labels, envelopes, and postcards
- 3.9 in. by 5.8 in. to 13 in. by 20 in.
- 32 lb. maximum with multipurpose tray; 28 lb. maximum with cassette

Power requirements

- U.S./Japan: nominal 100/120 volts, 50 to 60 Hz
- Europe/Australia: nominal 220/240 volts, 50 to 60 Hz

Power consumption

- Operating: maximum power consumption 860 W
- Standby: average power consumption 150 W
- Energy Star mode less than 25 W

Environmental requirements

- Temperature: 41° to 95° F (5° to 35° C)
- Humidity: 20% to 85% noncondensing
- Toner cartridge transit environment: -4° to 104° F (-20° to 40° C)
- Toner cartridge storage environment: 32° to 95° F (0° to 35° C)

Size and weight

- Height: 16.2 in (41.2 cm)
- Width: 23.2 in (59.0 cm)
- Depth: 17.9 in (45.5 cm)
- Weight: 70.4 lb. (32 kg)—including toner cartridge

System requirements

- For the Mac OS, an Apple Macintosh, Power Macintosh, PowerBook, or other Mac OS-based personal computer with Macintosh system software version 7.1.1 or later, 8MB of RAM (12MB of RAM recommended), a CD-ROM drive, and a hard disk drive with 8MB of available space (for printer software and fonts)
- For Microsoft Windows 95, Windows 3.1, Windows for Workgroups 3.11, or Windows NT, an IBM or IBM-compatible personal computer with an 80486 processor or later, 8MB of RAM, and a CD-ROM drive
- For UNIX: Solaris, SunOS 4.1, HP-UX 9.x, BSD, A/UX, Silicon Graphics IRIX



Mac OS



For Windows



Adobe PostScript 3™



Apple Computer, Inc.
 1 Infinite Loop
 Cupertino, CA 95014
 (408) 996-1010
<http://www.apple.com/>
<http://imaging.apple.com/>

© 1997 Apple Computer, Inc. All rights reserved. Apple, the Apple logo, AppleTalk, EtherTalk, LaserWriter, LocalTalk, Mac, the Mac OS logo, Macintosh, PowerBook, Power Macintosh, and TrueType are trademarks of Apple Computer, Inc., registered in the U.S.A. and other countries. FinePrint is a trademark of Apple Computer, Inc. Adobe, Acrobat, PostScript, and the PostScript logo are trademarks of Adobe Systems Incorporated and may be registered in certain jurisdictions. Mention of non-Apple products is for informational purposes only and constitutes neither an endorsement nor a recommendation. Apple assumes no responsibility with regard to the selection, performance, or use of these products. All understandings, agreements, or warranties, if any, take place directly between the vendors and the prospective users.
 June 1997. Product specifications are subject to change without notice. Printed in U.S.A.
 L02389A



Macintosh PowerBook

1400cs/117, 1400cs/133, 1400c/133, and 1400c/166

Features

Powerful technology

- Uses the PowerPC 603e processor
- Includes an 8x-speed CD-ROM drive (standard on most configurations)
- Provides a large, 11.3-in. (diagonal) color SVGA display (dual-scan or active-matrix) supporting thousands of colors
- Features an advanced Apple trackpad with tap, double-tap, and drag functionality
- Comes with built-in infrared technology for easy, wireless file sharing with similarly equipped systems

Innovative design

- Features a sleek, contoured shape, and a variety of BookCover inserts that let you personalize the appearance of your PowerBook computer
- Lets you flip the keyboard forward for easy access to the system's interior

Upgradability and expandability

- Offers a memory expansion slot that allows "piggy-backing" of memory cards, so you can install one card initially and then install another later
- Includes PC Card slots for two Type II PC Cards or one Type III PC Card
- Features an expansion bay for the floppy disk drive, CD-ROM drive, battery storage, or third-party solutions such as a second hard disk drive, magneto-optical drive, or Zip drive
- Provides an internal expansion slot for optional built-in Ethernet or video-output card

A complete solution

- Includes everything you need to be productive right away
- Features Apple Location Manager software, which allows you to switch easily between system settings (printer, networking, and so on) that vary by location
- Comes with productivity software pre-installed, including ClarisWorks and Claris Organizer
- Comes with Apple Internet Connection Kit software, including Netscape Navigator, Claris eMailer Lite, Fetch, NCSA Telnet, and NewsWatcher
- Includes software for remote access and cross-platform compatibility

The Apple Macintosh PowerBook 1400 product line takes Apple's traditional strengths—excellence in design and unparalleled ease of use—to a new level by incorporating the latest advances in portable computing technology. These powerful, innovative notebook computers offer the essentials in multimedia and performance. They also go beyond the expected, providing a variety of expansion capabilities and featuring a stylish new design.

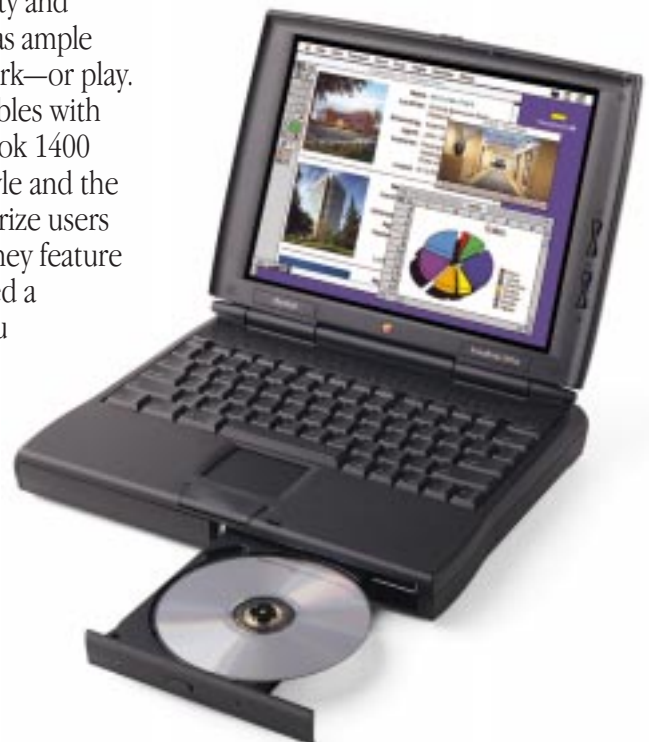
Based on the PowerPC 603e processor (117, 133, or 166 megahertz), the PowerBook 1400 systems can handle everything from complex spreadsheets to text- and graphics-intensive reports. They feature a removable, modular 8x-speed CD-ROM drive (standard on most configurations), giving you access to the wealth of resources available on CD-ROM, including the latest productivity software and multimedia games. And their 11.3-inch diagonal color SVGA displays (dual-scan for the 1400cs models; active-matrix for the 1400c models) provide outstanding quality and bright, vivid colors, as well as ample room for viewing your work—or play.

Designed to be "portables with personality," the PowerBook 1400 series reflects both the style and the individuality that characterize users of PowerBook systems. They feature a clear exterior panel called a BookCover, which lets you

personalize the appearance of your PowerBook with colorful, interchangeable inserts. They also sport a sleek new contoured design, including a flip-up keyboard that makes it easy to access the system's interior for upgrades or service. And all the PowerBook 1400 systems support a variety of expansion options. For example, there's a memory expansion slot that allows you to "piggy-back" memory cards, as well as an internal expansion slot that you can use to add capabilities such as Ethernet networking or video output.

To get you started working right away, the PowerBook 1400 computers come with a variety of software, including Apple Location Manager, ClarisWorks, and Claris Organizer, as well as remote access and cross-platform compatibility software. They even include the Apple Internet Connection Kit.

So if you want an innovative design, unparalleled ease of use, and unmatched opportunities for customization, one member of the Macintosh PowerBook 1400 family is bound to be the right choice for you.





Macintosh PowerBook

1400cs/117, 1400cs/133, 1400c/133, and 1400c/166

Ordering Information

PowerBook 1400cs/117

Order No. M5888

- PowerBook 1400cs/117 computer with 117-MHz PowerPC 603e processor, 12MB of RAM, built-in 1.4MB Apple SuperDrive, and internal 1GB hard disk drive
- 11.3-in. diagonal dual-scan display
- NiMH battery and AC adapter
- Mac OS 7.6.1 system software
- Complete setup, learning, and reference documentation
- Apple Location Manager software
- Pre-installed ClarisWorks and Claris Organizer software and documentation
- Apple Internet Connection Kit software
- Apple Remote Access and cross-platform compatibility software
- One-year limited warranty

PowerBook 1400cs/117

Order No. M5889

- Same as Order No. M5888, but with 16MB of RAM and an 8x-speed CD-ROM drive

PowerBook 1400cs/133

Order No. M5605

- PowerBook 1400cs/133 computer with 133-MHz PowerPC 603e processor with 128K level 2 cache, 16MB of RAM, built-in 1.4MB Apple SuperDrive, internal 1.3GB hard disk drive, and 8x-speed CD-ROM drive. 11.3-in. diagonal dual-scan display, battery, adapter, system software, additional software, documentation, and warranty. Same as Order No. M5888

PowerBook 1400c/133

Order No. M5891

- Same as Order No. 5605, but with active-matrix display

PowerBook 1400c/166

Order No. M4909

- Same as Order No. 5891, but with 166-MHz PowerPC 603e processor and Internal 2GB hard disk drive

PowerBook 8x-Speed CD-ROM Module

Order No. M5789

PowerBook 8-bit Color Video-output Card

Order No. M4509

PowerBook Power AC Adapter

Order No. M4895

PowerBook Rechargeable Battery

Order No. M5968

PowerBook 8MB RAM Expansion Card

Order No. M4506

Technical Specifications

Microprocessor options

- 117-MHz PowerPC 603e
- 133-MHz or 166-MHz PowerPC 603e with 128K level 2 cache

Memory

- 12MB or 16MB of RAM, expandable to 64MB

Storage

- Built-in 1.4MB Apple SuperDrive floppy disk drive, which uses high-density floppy disks and reads, writes, and formats Macintosh, Windows, MS-DOS, OS/2, and ProDOS disks
- Internal hard disk drive (up to 2GB)
- Sleep-swappable 8x-speed CD-ROM drive module

Display

- 11.3-in. (diagonal) dual-scan (PowerBook 1400cs) or active-matrix (PowerBook 1400c) color SVGA display, thousands of colors, 800 by 600 pixels

Expansion capabilities

- Memory expansion slot that allows "piggy-backing" of up to two memory cards
- PC Card slots for two Type II PC Cards or one Type III PC Card
- Expansion bay for Apple and third-party solutions such as an additional hard disk drive, magneto-optical drive, or Zip drive
- Internal expansion slot for video-output or Ethernet card

Batteries

- High-capacity nickel-metal-hydride (NiMH)
- Average life: 2 to 4 hours, depending on environmental usage pattern

Ports

- Apple Desktop Bus (ADB) port, serial (RS-422) port
- SCSI port
- Power adapter port
- Stereo sound-input/output port

Networking

- Built-in LocalTalk port
- Built-in infrared technology (IRTalk 230.4 Kbps)

Built-in stereo sound

- 16-bit, CD-quality stereo sound
- Built-in speaker and integrated microphone
- Digital-to-analog conversion sampled at 44.1, 22.05, or 11.025 kHz
- 16-bit audio line-in for recording

Security

- Security slot for locking (requires third-party cable)
- Password security software

Keyboard

- Full-size keyboard with 76 (U.S.) or 77 (ISO) keys

Apple trackpad

- Supports tap, double-tap, and drag capabilities

Electrical requirements

- Line voltage: 100 to 220 volts AC
- Frequency: 50 to 60 Hz

Environmental requirements

- Operating temperature: 41° to 95° F (5° to 35° C)
- Storage temperature: -13° to 140° F (-25° to 60° C)
- Relative humidity: 20% to 80% noncondensing
- Operating altitude: 0 to 10,000 ft. (0 to 3,048 m)
- Maximum storage altitude: 15,000 ft. (4,522 m)

Size and weight

- Height: 2.0 in. (5.2 cm)
- Width: 11.5 in. (29.2 cm)
- Depth: 9.0 in. (22.5 cm)
- Weight:
 - Macintosh PowerBook 1400cs:
 - 6.7 lb. (3.0 kg) (with floppy disk drive installed)
 - 7.0 lb. (3.15 kg) (with CD-ROM drive installed)
 - Macintosh PowerBook 1400c:
 - 6.6 lb. (3.0 kg) (with floppy disk drive installed)
 - 6.9 lb. (3.1 kg) (with CD-ROM drive installed)

PowerBook Model	1400cs/117	1400cs/117	1400cs/133	1400c/133	1400c/166
Order No.	M5888	M5889	M5605	M5891	M4909
Processor speed	117 MHz	117 MHz	133 MHz	133 MHz	166 MHz
RAM	12MB	16MB	16MB	16MB	16MB
Level 2 cache			✓	✓	✓
SVGA display	Dual-scan	Dual-scan	Dual-scan	Active-matrix	Active-matrix
1.4MB Apple SuperDrive floppy disk drive	✓	✓	✓	✓	✓
Hard disk drive	1GB	1GB	1.3GB	1.3GB	2GB
CD-ROM drive		8x	8x	8x	8x

Product specifications are subject to change. Check with your Apple reseller for the most current information about product specifications and configurations.

© 1997 Apple Computer, Inc. All rights reserved. Apple, the Apple logo, Apple SuperDrive, LocalTalk, Mac, Macintosh, PowerBook, and ProDOS are trademarks of Apple Computer, Inc., registered in the U.S. and other countries. BookCover is a trademark of Apple Computer, Inc. Claris and ClarisWorks are trademarks of Claris Corporation, registered in the U.S. and other countries, and Claris eMailer and Claris Organizer are trademarks of Claris Corporation. Netscape Navigator is a trademark of Netscape Communications Corporation. PowerPC is a trademark of International Business Machines Corporation, used under license therefrom. Mention of non-Apple products is for informational purposes only and constitutes neither an endorsement nor a recommendation. Apple assumes no responsibility with regard to the selection, performance, or use of these products. All understandings, agreements, or warranties, if any, take place directly between the vendors and the prospective users.
April 1997. Product specifications are subject to change without notice. Printed in U.S.A.
L02041D

Apple Computer, Inc.

1 Infinite Loop
Cupertino, CA 95014
(408) 996-1010

<http://www.apple.com/>



Macintosh PowerBook 2400c/180

Features

Lightweight design

- Weighs only 4.4 lbs.
- Uses lithium-ion battery technology for lightweight—and long battery life

High performance

- Packs desktop-level performance into a lightweight, compact system
- Features industry-standard, performance-enhancing PCI architecture
- Comes standard with a brilliant 10.4-in. (diagonal) active-matrix color, SVGA display
- Offers outstanding video capabilities, including graphics acceleration and Zoomed Video support
- Includes a large-capacity, 1.3GB hard disk drive

Outstanding connectivity

- Offers a full range of built-in ports, including a printer/modem port for networking and communications, an external floppy disk drive port, a SCSI port for connecting up to six external devices, an ADB port for attaching an extra keyboard or mouse, a VGA-style video-output port for connecting external monitors or projection devices, and an infrared port to support easy, wireless LAN access or file sharing with similarly equipped systems
- Includes built-in 16-bit stereo sound-input/output ports

Flexible expansion options

- Offers one RAM expansion slot to support up to 48MB of memory
- Accommodates two Type II PC Cards or one Type III PC Card for additional communications, storage, or other options

Bundled productivity software

- Comes with the Apple Internet Connection Kit for easy Internet access
- Includes pre-installed ClarisWorks integrated productivity software
- Provides software for remote access and cross-platform compatibility
- Features Apple Location Manager software, which allows you to easily switch system settings that vary by location

The Apple Macintosh PowerBook 2400c/180 combines Apple's acclaimed ease of use with desktop-level performance, connectivity, and expandability, without the need for expensive add-ons. But the key to this unique system's appeal is its compact design and ultralight weight—features that make the PowerBook 2400c/180 the optimal choice for people who are always on the move.

Based on the high-end architecture of the PowerBook 3400, this surprisingly light notebook system rivals many desktop computers with its 180-megahertz PowerPC 603e processor and 256K level 2 cache. But the true measure of performance goes far beyond processor speed, to include features such as high-capacity hard disk storage, a high-resolution display with video acceleration, long battery life, and flexible connectivity—areas in which the Macintosh PowerBook 2400c/180 shines.

For years, people have been forced to choose between powerful

but heavy notebook systems and lighter systems that sacrifice performance and connectivity features. The PowerBook 2400c/180 essentially eliminates this trade-off between portability and productivity, by combining a sleek, lightweight product that's not only fast but also designed with connectivity features that make it easy to add to your system's capabilities. With its built-in PC Card slots (ideal for adding a modem or Ethernet connection), 16-bit video-output port (for attaching an external monitor), and ADB port (for connecting additional input devices such as a keyboard or mouse), as well as other features—the PowerBook 2400c/180 provides extraordinary flexibility in configuration.

The result is a system that redefines portability, making the Macintosh PowerBook 2400c/180 the computer of choice for mobile professionals who want the convenience and outstanding performance that the lightest Macintosh system offers today.





Macintosh PowerBook 2400c/180

Ordering Information

Macintosh PowerBook 2400c/180

Order No. M5241LL/A

- PowerBook 2400c/180 computer with 180-MHz PowerPC 603e processor, 16MB of RAM, internal 1.3GB hard disk drive, and external 1.4MB Apple SuperDrive floppy disk drive

All systems also ship with battery and AC adapter; Mac OS 7.6; complete setup, learning, and reference documentation; Apple Internet Connection Kit software; Apple Remote Access software; cross-platform compatibility software; and one-year limited warranty.

Accessories

Lithium-Ion Rechargeable Battery for Macintosh PowerBook 2400c/180

Order No. M5876

45-watt AC Adapter for Macintosh PowerBook 1400 and 3400 series and Macintosh PowerBook 2400c

Order No. M4895

External Floppy Disk Drive for Macintosh PowerBook 2400c

Order No. M5853

For more information about Apple Macintosh PowerBook products, visit our web site at <http://www.powerbook.apple.com>.

Product specifications are subject to change. Check with your Apple reseller for the most current information about product specifications and configurations

Technical Specifications

Microprocessor

- 180-MHz PowerPC 603e; 256K level 2 cache

Architecture

- PCI-based architecture, 33-MHz I/O bus and 40-MHz system bus

Memory

- 16MB of RAM, expandable to 48MB

Storage

- Internal 1.3GB hard disk drive
- External 1.4MB Apple SuperDrive floppy disk drive

Display

- Resolution: 800 by 600 pixels
- 10.4-in. (diagonal) active-matrix color SVGA display that supports up to thousands of colors
- 1MB of VRAM supports 16-bit color video output (thousands of colors) in 800- by 600-pixel resolution, and 8-bit color video output (256 colors) in 1,024- by 768-pixel resolution on up to 20-in. monitors
- Hardware acceleration of scrolling and other graphics

Expansion capabilities

- One memory expansion slot
- Slots for two Type II PC Cards or one Type III PC Card; supports Zoomed Video

Battery

- Lithium ion (Lilon—29-watt-hour)
- Average life: 2 to 4 hours, depending on environmental usage pattern

Ports

- Apple Desktop Bus (ADB) port
- Serial (RS-422) port
- 16-bit video-output port (VGA-style connector)
- SCSI port for connecting as many as six external devices
- Infrared technology port
- Power adapter ports
- Stereo sound-input/output port
- Floppy disk drive connector

Networking and communications

- Built-in infrared technology supports AppleTalk protocols and 1Mb IrDA standard

Sound

- Built-in speaker
- 16-bit, CD-quality stereo input/output
- Integrated microphone

Keyboard

- Built-in 16.5-mm-pitch keyboard, complete with inverted "T" and 12 function keys

Apple trackpad

- Solid-state Apple trackpad provides precise cursor control; sensing of movement and acceleration can be easily adjusted; supports tap, double-tap, and drag capabilities

Electrical requirements

- Line voltage: 100 to 220 volts AC
- Frequency: 50 to 60 Hz

Environmental requirements

- Operating temperature: 50° to 95° F (10° to 35° C)
- Storage temperature: -13° to 140° F (-25° to 60° C)
- Relative humidity: 20% to 90% noncondensing
- Operating altitude: 0 to 10,000 ft. (0 to 3,048 m)
- Maximum storage altitude: 20,000 ft. (6,300 m)

Size and weight

- Height: 1.9 in. (4.7 cm)
- Width: 10.5 in. (26.7 cm)
- Depth: 8.4 in. (21.3 cm)
- Weight: 4.4 lb. (2.0 kg)