



Macintosh Server G4

The Macintosh Server G4 with the new PowerPC G4 with Velocity Engine offers excellent server performance for everything from e-mail and print sharing to Internet and intranet services. It's remarkably easy to set up and surprisingly easy to administer. The Macintosh Server G4 offers an unparalleled combination of power and ease of use in one incredible server—all at a very affordable price.





Macintosh Server G4



Features

High-performance hardware and software

- 400- or 450-megahertz PowerPC G4 processor featuring Velocity Engine advanced vector processing technology
- 1 megabyte of backside level 2 cache running at half the processor speed
- Built-in 10/100BASE-T Ethernet networking
- Support for up to 1.5 gigabytes of high-performance PC100 SDRAM
- One 20GB Ultra ATA/66 hard disk drive or one 18GB Ultra2 LVD SCSI hard disk drive with dual-channel PCI card supporting up to 80-megabyte-per-second data transfer per channel
- Dual (redundant) power supply that provides immediate power should the primary power supply fail

Easy installation, setup, and use

- Runs on the easiest-to-use operating system available: the Mac OS
- Includes preinstalled AppleShare IP software for fast file transfers
- Comes with an advanced web-based tool for easy server management—both locally and remotely
- Includes Apple Network Assistant software for powerful help desk and systems management capability

The best server you can buy for any community of Macintosh users today, the Macintosh Server G4 is fast, scalable, and still the easiest server to set up and administer. Using the new PowerPC G4 with Velocity Engine, it provides a powerful yet simple way to communicate and exchange information. And with AppleShare IP software, users and groups can be shared across multiple servers, allowing one or more Macintosh Server G4 systems to grow as your organization's needs grow and evolve.

At the heart of the Macintosh Server G4 is the high-speed PowerPC G4 with Velocity Engine. Using true independent vector processing, the PowerPC G4 with Velocity Engine brings supercomputer performance to server systems for the first time ever. With its advanced 128-bit vector processing unit and 162 instructions dedicated to handling vector and multimedia data, the PowerPC G4 processor enables the Macintosh Server G4 to manage even the heaviest network loads at breathtakingly efficient speeds. System performance is further enhanced through the use of an all-new superfast bus and a 1-megabyte backside cache.

Even with this kind of power and performance, however, the Macintosh Server G4 is still a remarkably easy-to-use and easy-to-administer system that gives you the freedom and flexibility to concentrate on more important tasks. And thanks to high-performance 10/100BASE-T Ethernet, design and publishing professionals will appreciate the speed with which they can exchange huge graphics and video files.

The AppleShare IP software that comes with the Macintosh Server G4 features integrated file, print, mail, and web services. It's faster, more secure, and more versatile than ever. And its native support for both Macintosh and Windows clients means that all your users can take advantage of its services seamlessly. Apple Network Assistant software provides the tools both educators and business professionals need to assist users, check system profiles, reconfigure system settings, and distribute applications from a central location, over TCP/IP and AppleTalk networks.

The Macintosh Server G4 offers a range of powerful network services and administrative tools. And with plenty of RAM, high-capacity hard disk drives, FireWire and Universal Serial Bus (USB) ports for connecting peripherals, and preinstalled software, it's ready to work right out of the box.



Specification Sheet

Macintosh Server G4

3

Technical Specifications

Processor

- 400- or 450-MHz PowerPC G4 processor
- Velocity Engine vector processing unit with 162 integrated Single Instruction Multiple Data (SIMD) instructions
- Full 128-bit internal memory data paths
- Powerful new floating-point unit supporting single-cycle, double-precision calculations
- Data stream prefetching operations supporting four simultaneous 32-bit data streams
- 1MB backside level 2 cache running at half the processor speed
- 100-MHz system bus supporting up to 800-MBps data throughput

Memory

- 128MB or 256MB of PC100 SDRAM (3.3-volt, unbuffered, 64-bit-wide, 168-pin, running at 100 MHz)
- Four DIMM slots support up to 1.5GB of PC100 SDRAM (999MB maximum per application) using the following DIMMs:
 - 32MB, 64MB, or 128MB DIMMs (64-bit-wide, 64-Mbit technology)
 - 128MB or 256MB DIMMs (64-bit-wide, 128-Mbit technology)
 - 512MB DIMMs (64-bit-wide, 256-Mbit technology)

Storage

- One of the following, depending on which configuration is ordered:
 - 20GB 7200-rpm Ultra ATA/66 hard disk drive
 - 18GB 10000-rpm Ultra2 LVD SCSI hard disk drive with PCI card
- DVD-ROM drive
- Three 3.5-inch hard disk drive expansion bays
 - One ATA or SCSI drive preinstalled in standard configurations
 - Support for up to two internal ATA drives
 - Support for up to three internal SCSI drives
- Support for FireWire and USB storage devices

Interfaces

- Connectivity
 - Three 400-Mbps FireWire ports (two external and one internal)
 - Two USB ports (12 Mbps each; 24 Mbps total)
- Communications
 - Built-in 10/100BASE-T Ethernet connector (RJ-45)
 - Optional AirPort wireless networking
- Expansion
 - Four expansion slots: three full-length 64-bit, 33-MHz PCI slots (one of which may contain the Ultra2 LVD SCSI card) and one AGP 2X slot (dedicated to the ATI RAGE 128 graphics card)
- Video
 - 15-pin mini D-Sub VGA connector
- Sound
 - Minijacks for 16-bit stereo audio input and output: 44.1-kHz sampling rate
 - Built-in speaker

Keyboard and mouse

- Apple USB Keyboard with 2-meter cable and Apple USB Mouse

Electrical requirements

- Line voltage: 115V AC (90V to 132V AC) or 230V AC (180V to 264V AC)
- Frequency: 47 to 63 Hz, single phase
- Maximum continuous power (not including display): 155W

Environmental requirements

- Operating temperature: 50° to 95° F (10° to 35° C)
- Storage temperature: -40° to 116° F (-40° to 47° C)
- Relative humidity: 5% to 95% noncondensing
- Maximum altitude: 10,000 feet (3,048 m)

Size and weight

- Height: 17.0 inches (43.2 cm)
- Width: 8.9 inches (22.6 cm)
- Depth: 18.4 inches (46.7 cm)
- Weight: 30.0 pounds (13.6 kg)*

*Weight varies depending on configuration.




Specification Sheet

Macintosh Server G4

4

Available Configurations

Macintosh Server G4	Order no.	M7522LL/A	M7524LL/A
	Processor speed	400 MHz	450 MHz
	Memory (PC100 SDRAM)	128MB	256MB
	Backside level 2 cache	1MB at 200 MHz	1MB at 225 MHz
	Hard disk drive	20GB Ultra ATA/66	18GB Ultra2 LVD SCSI
	Optical drive	DVD-ROM drive	DVD-ROM drive

All models also include:

- Apple USB Keyboard and Mouse
- Mac OS (preinstalled)
- AppleShare IP (preinstalled; unlimited-client license)
- Apple Network Assistant
- Microsoft Internet Explorer
- Netscape Communicator
- Complete setup, learning, and reference documentation

Product includes some electronic documentation. Bundled software provided on CD-ROM.

Build-to-order Options

In addition to choosing from among Apple's prebuilt systems, you can order a custom-configured computer from your local reseller or the online Apple Store.

Build-to-order options include processor speed, memory, hard disk drives, optical drives, Zip drive, 56K modem, AirPort wireless networking, SCSI support, and more. For up-to-date information about options and availability, visit www.apple.com/store.

For More Information

For more information about these products, or to find out where to buy Apple products, visit www.apple.com/products on the World Wide Web or call 800-538-9696. To purchase these products from the Apple Store, go to www.apple.com/store.

Visit the Macintosh Products Guide at www.apple.com/guide for the latest information on over 12,000 hardware and software products for your Macintosh.

Apple stands behind its products with world-class service and support. Offering quality parts, extended hardware service options, phone support, and support via the Internet, we provide you with support choices that meet your needs. For more information, visit www.apple.com/support.

Related Products

- Apple displays
 - Apple Studio Display (17-inch; 16-inch viewable); order no. M6221
 - Apple Studio Display (21-inch; 19.8-inch viewable); order no. M6204

Apple Computer, Inc.

1 Infinite Loop
Cupertino, CA 95014
408-996-1010
www.apple.com

© 1999 Apple Computer, Inc. All rights reserved. Apple, the Apple logo, AppleShare, AppleTalk, FireWire, Mac, and Macintosh are trademarks of Apple Computer, Inc., registered in the U.S. and other countries. AirPort, the Apple Store, and Velocity Engine are trademarks of Apple Computer, Inc. PowerPC is a trademark of International Business Machines Corporation, used under license therefrom. Other product and company names mentioned herein may be trademarks of their respective companies. Product specifications are subject to change without notice.
August 1999 L04175A