



# Power Macintosh G3 Series

Desktop and Minitower  
Computers

The Power Macintosh G3 series features exciting Apple innovations in processor technology and system architecture that significantly increase both performance and flexibility, to enhance your productivity and encourage your creativity. Like the processors that power them, these systems are designed to turn your ideal vision of powerful computing into an affordable reality.

Built on the PowerPC G3—the next generation of PowerPC technology, and the first processor optimized for the Mac OS—these computers dramatically alter the price/performance equation. And by incorporating a new approach to cache memory, the Power Macintosh G3 models can provide nearly twice the performance of systems based on earlier PowerPC processors, an improvement that far exceeds the increases in clock speed alone. In addition, these computers feature a new logic board design with a faster system bus, to maximize their power—and yours.

Power Macintosh G3 systems include the latest in communications and multimedia features: high-quality audio and video input/output, Ethernet networking, and a communications slot for adding a modem.\* So it's easy to work collaboratively with colleagues, whether they're just across the hall or clear across the country. Finally, to complement their hardware innovations, these advanced computers run Mac OS 8.1—the latest system software from Apple—which combines an appealing new look with even more exciting new capabilities.

Factor in these systems' three PCI expansion slots for further enhancing functionality, and you'll reach only one conclusion: The Power Macintosh G3 series offers an outstanding value—now and in the future.

## Features

### Next-generation PowerPC processor technology

- Introduces the first processor specifically optimized for the Mac OS—the PowerPC G3, running at 233, 266, or 300 MHz
- Uses a leading-edge, 0.25-micron process, for a smaller, lower-power chip design
- Features an innovative backside cache architecture to increase performance

### Innovative system architecture

- Debuts a new, more efficient logic board design
- Increases the system bus speed to maximize processor performance gains

### High-quality communications and multimedia support

- Makes communications fast and easy through built-in Ethernet networking
- Offers 16-bit stereo audio input/output and high-quality video input/output\*
- Includes a 24x-speed (maximum) CD-ROM drive
- Is available with a Zip drive\*

### Outstanding flexibility

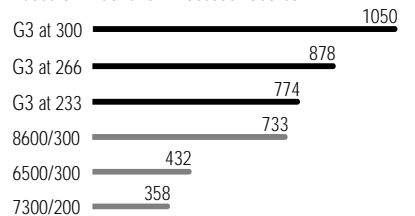
- Provides three standard 12-inch PCI slots for easy expansion of system functionality (open slots vary by configuration)
- Includes expansion bays for additional storage devices (varies by configuration)
- Speeds system expansion and servicing through an exceptionally easy-to-access design

### Communications package\*

- Includes an internal 56-Kbps data/14.4-Kbps fax modem\*\* plus Microsoft Internet Explorer, Netscape Navigator, America Online, SurfWatch, Adobe PageMill, FAXstf, Now Up-to-Date and Contact, Jack Nicklaus 4, Master of Orion II, and Microsoft Bookshelf 98

## Power Macintosh Performance Comparisons

Based on MacBench Processor Scores\*\*\*



\*Available in some configurations; see Configurations chart for product details.

\*\*Data speeds up to 56 Kbps, fax speeds up to 14.4 Kbps. Actual download speeds vary with line conditions and your Internet service provider's modem capabilities. FCC regulations limit ISP transmission speeds to 53 Kbps in the U.S. Note that only one serial port is available in systems with the internal modem installed.

\*\*\*Based on Apple internal testing using MacBench 4.0 processor performance scores. Actual performance on applications will vary. MacBench is a subsystem-level benchmark that measures the relative performance of Mac OS-based systems.





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## Technical Specifications

### Processor and memory

- 233-, 266-, or 300-MHz PowerPC G3 processor
- 512K or 1MB backside level 2 cache on processor module; 117-, 133-, or 150-MHz dedicated 64-bit backside bus
- 66-MHz system bus
- Integrated floating-point unit and 64K on-chip level 1 cache (32K for data and 32K for instruction)
- At least 32MB of SDRAM (3.3-volt, unbuffered, 64-bit wide, 168-pin, running at more than 100 MHz, 10-nanosecond cycle time); three DIMM slots support up to 384MB
- 64-bit memory bus

### Storage

- One or two internal IDE or Ultra/Wide SCSI hard disk drives
- Internal high-capacity floppy disk drive
- Accepts high-density 1.44MB disks and 800K disks
- Reads, writes, and formats Mac OS, Windows, MS-DOS, OS/2, and ProDOS disks
- Internal 24x-speed (maximum) ATAPI CD-ROM drive
- Optional internal ATAPI DVD-ROM drive supports CD-ROMs at 20x speed (maximum) or DVD-ROMs at 2x speed (maximum)
- Internal 100MB Zip drive\*
- Expansion bays for additional storage devices
- Desktop models: One or two 3.5-inch drive bays
- Minitower models: One or two 5.25-inch drive bays

### Interfaces

- Three 12-inch PCI expansion slots compatible with PCI 2.1-compliant cards (open slots vary by configuration)
- Two high-speed DMA serial (RS-232/RS-422) ports compatible with LocalTalk cables
- Built-in 10BASE-T Ethernet connector; 10/100BASE-T Fast Ethernet PCI card\*
- Internal and external SCSI buses (up to 5 MBps)
- Apple Desktop Bus (ADB) expansion port
- DB-15 connector for monitor
- Communications slot for modem card\*
- Minijacks for 16-bit stereo audio input/output; up to 44.1-kHz sampling rate
- Composite and S-video connectors for video input/output\*

### Graphics support

- Built-in 64-bit graphics and multimedia accelerator chip
- 2MB or 6MB of SGRAM video memory; supports up to 6MB
- 128-bit 2D/3D graphics PCI card with 8MB of EDO VRAM for accelerated high-resolution graphics and connection of a second monitor\*

Video Memory	Colors	
	Millions (32 bit)	Thousands (16 bit)
2MB SGRAM	Up to 832- by 624-pixel resolution	Up to 1,024- by 768-pixel resolution
Refresh rate	Up to 75 Hz	Up to 85 Hz
6MB SGRAM	Up to 1,024- by 768-pixel resolution	Up to 1,600- by 1,200-pixel resolution
Refresh rate	Up to 75 Hz	Up to 75 Hz
8MB EDO VRAM on PCI card	Up to 1,920- by 1,080-pixel resolution	Up to 1,920- by 1,200-pixel resolution
Refresh rate	Up to 72 Hz	Up to 76 Hz

### Video capabilities\*

- 24-bit video input
- Support for NTSC, PAL, and SECAM
- Up to 320- by 240-pixel capture at up to 30 frames per second
- Maximum capture size of 640 by 480 pixels
- 24-bit video output
- High sample rate on output signal eliminates need for external and analog filtering
- Support for NTSC and PAL

### Electrical requirements and agency approvals

- Line voltage: 100 to 125 V AC or 200 to 240 V AC, RMS single phase, automatically configured
- Frequency: 50 to 60 Hz, single phase
- Power: 230W maximum for desktop, 240W maximum for minitower; not including display
- EPA Energy Star and Blue Angel compliant (desktop models only)

### ADB power requirements

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

### 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)

Size and Weight	Desktop models	Minitower models
Height	6.2 in. (15.6 cm)	15.2 in. (38.6 cm)
Width	14.4 in. (36.5 cm)	9.6 in. (24.3 cm)
Depth	16.9 in. (43.0 cm)	17.8 in. (45.2 cm)
Weight**	22.7 lb. (10.2 kg)	33.1 lb. (15.0 kg)

\*Available in some configurations; see Configurations chart for product details.

\*\*May differ based on configuration.



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## Ordering Information



For detailed information about the currently available configurations, see the chart below. All models also include an internal 1.44MB floppy disk drive; keyboard and mouse; Mac OS 8.1 (which includes Internet access software); complete setup, learning, and reference documentation; and limited warranty.

### Build-to-order (BTO) options

These systems can also be ordered through the online Apple Store, which allows you to custom-configure your computer in such areas as processor speed, RAM, hard disk drive, Zip drive, DVD-ROM drive, graphics support, audio/video capabilities, high-speed Ethernet, FireWire, and modem.

### For more information

For more information about these products, or to find out where to buy Apple products—through a reseller or from the Apple Store—visit [www.apple.com](http://www.apple.com) or call 1-800-538-9696.

Configurations		Order no.	M6141LL/A	M6202LL/A	
 Power Macintosh G3 desktop computers	Processor speed		233 MHz	266 MHz	
	Memory (SDRAM)		32MB; supports up to 384MB	32MB; supports up to 384MB	
	Backside level 2 cache		512K	512K	
	Backside bus speed		117 MHz	133 MHz	
	System bus speed		66 MHz	66 MHz	
	Hard disk drive		4GB IDE drive	4GB IDE drive	
	CD-ROM drive		24x speed (maximum)	24x speed (maximum)	
	Zip drive		—	Yes	
	Graphics support		2MB SGRAM	2MB SGRAM	
	Audio/Video capabilities		Audio input/output	Audio input/output	
	Ethernet		Built-in 10BASE-T	Built-in 10BASE-T	
	Communications package (modem and software)		—	—	
	Order no.	M6431LL/A	M6142LL/A	M6459LL/A	
 Power Macintosh G3 minitower computers	Processor speed		233 MHz	266 MHz	
	Memory (SDRAM)		32MB; supports up to 384MB	32MB; supports up to 384MB	128MB; supports up to 384MB
	Backside level 2 cache		512K	512K	512K
	Backside bus speed		117 MHz	133 MHz	133MHz
	System bus speed		66 MHz	66 MHz	66 MHz
	Hard disk drive		4GB IDE drive	6GB IDE drive	4GB Ultra/Wide SCSI drive and PCI card
	CD-ROM drive		24x speed (maximum)	24x speed (maximum)	24x speed (maximum)
	Zip drive		—	Yes	—
	Graphics support		2MB SGRAM	2MB SGRAM	6MB SGRAM; 8MB EDO VRAM on 2D/3D graphics PCI card
	Audio/Video capabilities		Audio input/output	Audio/Video input/output	Audio input/output
	Ethernet		Built-in 10BASE-T	Built-in 10BASE-T	Built-in 10BASE-T; 10/100BASE-T PCI card
	Communications package (modem and software)		Yes	—	—
	Order no.	M6572LL/A	M6494LL/A		
	Processor speed		300 MHz		
	Memory (SDRAM)		128MB (one 128MB DIMM); supports up to 384MB		
	Backside level 2 cache		1MB		
	Backside bus speed		150 MHz		
	System bus speed		66 MHz		
	Hard disk drive		Two 4GB Ultra/Wide SCSI drives and PCI card		
	CD-ROM drive		24x speed (maximum)		
	Zip drive		—		
	Graphics support		6MB SGRAM; 8MB EDO VRAM on 2D/3D graphics PCI card		
	Audio/Video capabilities		Audio input/output		
	Ethernet		Built-in 10BASE-T; 10/100BASE-T PCI card		
	Communications package (modem and software)		—		