Power Macintosh G3 Series

The Power Macintosh G3 series features exciting Apple innovations in processor technology and system architecture that significantly increase both performance and expandability, to enhance your productivity and encourage your creativity. These systems are designed to transform your ideal vision of professional computing into affordable reality.

Built on the PowerPC G3 processor, with its Mac OS optimization and performance-boosting backside level 2 cache memory, the Power Macintosh G3 computers have dramatically altered the price/performance equation for professional computing. Boasting impressive benchmark test results, these are the fastest Macintosh computers ever, with scores of up to 1155. And all Power Macintosh G3 systems feature an innovative logic board design with a fast system bus, to maximize their processing power.

Every Power Macintosh G3 also includes a high-capacity hard disk drive and at least one expansion bay for additional storage, a 24x-speed (maximum) CD-ROM drive, built-in 10BASE-T Ethernet networking, and high-quality video and audio. To complement their hardware innovations, these advanced computers run the latest Mac OS system software from Apple. And they feature three PCI slots for easy expansion of their already impressive capabilities. So no matter what challenges your job entails, there's a Power Macintosh G3 computer to handle them.

Need even more flexible or faster communications? A variety of options are available, including a high-speed modem and high-speed Ethernet, that make it easy to work collaboratively with colleagues—whether they're just across the hall or clear across the country. And if you want to work with high-quality digital video, you'll appreciate the Apple FireWire option that allows you to connect your digital video camcorder to produce professional-quality digital video more easily and more affordably than ever; and the Apple DVD-Video solution, which provides high-quality DVD-Video playback so you can watch the latest DVD movies right on your computer:*

The Power Macintosh G3 series: the professional choice.

Features

Next-generation PowerPC processor technology
- Introduces the first processor specifically optimized for the Mac OS—the PowerPC G3, running at 266, 300, or 333 MHz
- Uses a leading-edge process for a smaller, lower-power chip design
- Features an innovative backside cache architecture to increase performance

Innovative system architecture
- Uses an 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

Power Macintosh Performance Comparisons

Based on MacBench Processor Scores***

	Score
G3 at 333	1155
G3 at 300	1050
G3 at 266	878
8600/300	733
6500/300	432
7300/200	358

Must be configured at the time of purchase; see Ordering Information for details.

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

****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.*

Technical Specifications

Processor and memory

- 266-, 300-, or 333-MHz PowerPC G3 processor
- 512K or 1MB backside level 2 cache on processor module; 133-, 150-, or 167-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 768MB with three 256MB SDRAM (128-bit-wide) DIMMs
- 64-bit memory bus

Storage

- Internal IDE or Ultra/Wide SCSI hard disk drive
- 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
- 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
- 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 2D/3D graphics acceleration through an integrated ATI RAGE PRO TURBO graphics controller
- 2MB or 6MB of SGRAM video memory; supports up to 6MB

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

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 125V AC or 200 to 240V AC, RMS single phase
- Frequency: 50 to 60 Hz, single phase
- Power: 150W maximum for desktop, 171W 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.*

Power Macintosh G3 Series

Desktop and Minitower Computers

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 8.5 (which includes Internet access software); complete setup, learning, and reference documentation; and limited warranty.

Build-to-order (BTO) options

In addition to choosing from among Apple's prebuilt systems (see Configurations chart), you can order a custom-configured computer from your local reseller or the online Apple Store. This allows you to select the processor speed, amount of RAM, hard disk drive capacity, audio/video capabilities, and other features. You can also add options such as the following:

- Zip drive for flexible storage capabilities
- DVD option, which includes internal ATAPI DVD-ROM drive that supports CD-ROMs at 20x speed (maximum) and DVD-ROMs

at 2x speed (maximum), and the DVD-Video and AV card that allows you to watch the latest DVD titles right on your computer
- High-speed 10/100BASE-T Fast Ethernet PCI card
- FireWire option, which lets you use your FireWire-based digital video (DV) camcorder to produce professional-quality digital video; comes with Adobe Premiere plug-ins that support capture, edit, and playback, as well as export to tape
- Internal 56-Kbps data/14.4-Kbps fax modem* plus FAXstf software
- 128-bit 2D/3D graphics PCI card with 8MB of EDO VRAM for accelerated high-resolution graphics and connection of a second monitor; supports monitor resolutions up to 1,920 by 1,080 pixels (32 bit) at up to 72 Hz, and up to 1,920 by 1,200 pixels (16 bit) at up to 76 Hz

- Ultra/Wide SCSI hard disk drives and arrays with PCI card and SoftRAID software for high-performance storage solutions

For more information

For more information about these products, or to find out where to buy Apple products, visit www.apple.com on the World Wide Web or call 1-800-538-9696. To purchase these products from the Apple Store, go to www.apple.com/store.

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.

Configurations

Order no.	M6503LL/A	M7104LL/A
Power Macintosh G3 desktop computers		
Processor speed	266 MHz	300 MHz
Memory (SDRAM)	32MB; supports up to 768MB	64MB; supports up to 768MB
Backside level 2 cache	512K	1MB
Backside bus speed	133 MHz	150 MHz
System bus speed	66 MHz	66 MHz
Hard disk drive	4GB IDE drive	6GB 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

Order no.	M7246LL/A	M7106LL/A
Power Macintosh G3 minitower computers		
Processor speed	300 MHz	333 MHz
Memory (SDRAM)	64MB (one 64MB DIMM); supports up to 768MB	128MB (one 128MB DIMM); supports up to 768MB
Backside level 2 cache	1MB	1MB
Backside bus speed	150 MHz	167 MHz
System bus speed	66 MHz	66 MHz
Hard disk drive	8GB IDE drive	9GB Ultra/Wide SCSI drive and PCI card
CD-ROM drive	24x speed (maximum)	24x speed (maximum)
Zip drive	Yes	—
Graphics support	6MB SGRAM	6MB SGRAM
Audio/Video capabilities	Audio/video input/output	Audio input/output
Ethernet	Built-in 10BASE-T	Built-in 10BASE-T