Power Macintosh G3 Series

All-in-one Computers

The Power Macintosh G3 all-in-one computers were developed to deliver the features most requested by educators today—in a single, convenient package. These new educational systems provide state-of-the-art technology and outstanding performance that make multimedia creation and playback more accessible—and more affordable—than ever.

Their all-in-one design, strongly favored by educators, is just the start. The Power Macintosh G3 all-in-one computers are extraordinarily easy to set up and use. They even provide built-in Ethernet, which makes their efficient integration into your existing school network a snap.

The Power Macintosh G3 all-in-one computers also include a host of features designed to make it easy to expand your system, including three PCI slots, three memory slots, and ready access to system components. And they offer some truly education-specific features, including two front headphone jacks, a backplane designed for inset cables, and security options.

But the real breakthrough is their outstanding performance. Built around the same high-performance PowerPC G3 processor that sparked the success of Apple's current line of desktop systems, these computers eliminate the educator's traditional trade-off between power and economy. In fact, this advanced processor enables the Power Macintosh G3 all-in-one computers to provide more than twice the performance of previous systems—affordably.

Another area of vital importance to educators that requires outstanding system performance is multimedia. The Power Macintosh G3 all-in-one computers make it more affordable than ever, by including video input/output capabilities as well as Avid Cinema and QuickTime 3 Pro, powerful and easy-to-use multimedia content creation and video-editing tools.*

The Power Macintosh G3 all-in-one computers were designed to meet and exceed the needs of educators: They combine convenience and affordability with state-of-the-art technology for teaching and learning today—and flexibility for the future.

Features

Education-oriented design
- Features the convenient all-in-one form factor preferred by educators
- Allows for future expansion, through flexible features and use of industry-standard components
- Incorporates a new logic board tray that protects internal components while supporting easy access for expansion or servicing

Outstanding performance, graphics, and communications
- Is based on the high-performance PowerPC G3 processor, which features performance-boosting backside level 2 cache and fast bus speeds
- Features built-in Ethernet for fast and easy connection to school networks
- Integrates an advanced graphics accelerator chip for high-quality 64-bit graphics and quick, smooth 2D and 3D viewing and editing

High-quality multimedia—affordably
- Comes with stereo-quality sound
- Provides the option of quick and easy creation and playback of high-quality multimedia content*
- Includes Avid Cinema and QuickTime 3 Pro software*

Mac OS 8.1 system software
- Features a new Finder that enhances system responsiveness on desktop operations
- Introduces a new, vastly more efficient approach to hard disk volume formatting

PowerPC G3 vs. Pentium II Performance Comparisons

Based on BYTEmark integer index

G3 at 266	9.01
G3 at 233	7.88
Pentium II/333 PC	4.64
Pentium II/300 PC	4.26

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

Technical Specifications

Processor and memory
- 233- or 266-MHz PowerPC G3 processor
- 512K backside level 2 cache on processor module; 117- or 133-MHz dedicated 64-bit backside bus
- 66-MHz system bus
- Integrated floating-point unit and 64K on-chip level 1 cache (32K data and 32K instruction)
- 32MB of SDRAM; three DIMM slots support up to 384MB
- 64-bit memory bus

Storage
- Internal 4GB IDE hard disk drive
- Internal 1.44MB floppy disk drive
- Internal 24x-speed (maximum) CD-ROM drive

Interfaces
- Connectivity
— Apple Desktop Bus (ADB) port
— DB-15 connector for monitor
— Internal/external SCSI bus (up to 5 MBps)
— Two high-speed DMA serial (RS-232/RS-422) ports
- Communications
— Built-in 10BASE-T Ethernet connector (10 Mbps); 10/100BASE-T Fast Ethernet PCI card*
— Three 7-inch PCI expansion slots compatible with PCI 2.1–compliant cards

Media capabilities
- Display
— Multiple-scan, tilt-and-swivel color display: 15-inch (13.8-inch diagonal viewable image size)
— 2MB of SGRAM video memory; supports up to 6MB
— Supports thousands of colors at up to 1,024- by 768-pixel resolution (24-bit); supports millions of colors at up to 832- by 624-pixel resolution (32-bit)
— Refresh rate of up to 85 Hz
- Sound
— Minijacks for 16-bit CD-quality stereo input/output; up to 44.1-kHz sampling rate
— Two front headphone jacks

- Video
— Built-in 64-bit graphics and multimedia accelerator chip
— 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; 320- by 240-pixel capture at up to 30 frames per second with NTSC; maximum capture size of 640 by 480 pixels with NTSC*
— 24-bit video output; supports RGB and optional NTSC*

System requirements and agency approvals
- Electrical requirements
— Line voltage: 90 to 264 V AC, RMS single phase, automatically configured
— Frequency: 50 to 60 Hz, single phase
— Power: 300W maximum, not including display
- 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)
- EPA Energy Star compliant

Size and weight
- Height: 19.9 inches (50.5 cm)
- Width: 16.1 inches (40.9 cm)
- Depth: 18.0 inches (45.7 cm)
- Weight: 59.5 lb. (26.8 kg)—will vary based on configuration

Available in some configurations; see chart for product details.

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Ordering Information

For detailed information about currently available configurations, see the chart below. All models also include an internal 1.44MB floppy disk drive and 24x-speed (maximum) CD-ROM 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
Beginning May 6, 1998, these systems can also be ordered through the online Apple Store for Education, which allows you to custom-configure your computer in such areas as hard disk drive, Zip drive, SDRAM, and Fast Ethernet.

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 or call 1-800-538-9696.

Configurations

Power Macintosh G3 all-in-one computers

Order no.	M6319LL/A	M6321LL/A
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)
Graphics support	2MB SGRAM	2MB SGRAM
Ethernet	Built-in 10BASE-T	Built-in 10BASE-T
Audio/Video capabilities	Audio input/output	Audio/Video input/output
Avid Cinema and QuickTime 3 Pro software	—	Yes

Order no.	M6642LL/A	M6643LL/A
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)
Graphics support	2MB SGRAM	2MB SGRAM
Ethernet	Built-in 10BASE-T; 10/100BASE-T PCI card	Built-in 10BASE-T; 10/100BASE-T PCI card
Audio/Video capabilities	Audio input/output	Audio/Video input/output
Avid Cinema and QuickTime 3 Pro software	—	Yes