



# Power Mac G4 Cube



## Features

### Easy Desktop Movies and music

- Apple iMovie software for fun, fast creation of movies you'll want to watch again and again
- Apple iTunes software for managing your music collection<sup>1</sup>
- CD-RW drive for burning your own music CDs
- FireWire connections for DV cameras and digital audio peripherals
- All-digital speaker system with Harman Kardon audio technology

### Outstanding performance

- 450-MHz PowerPC G4 processor with Velocity Engine
- 1MB of backside level 2 cache
- Up to 1.5GB of high-performance memory<sup>2</sup>
- Ultra ATA/66 hard disk drive with up to 60GB capacity<sup>3</sup>
- ATI RAGE 128 Pro graphics card with 16MB of graphics memory
- Optional NVIDIA GeForce2 or ATI RADEON graphics card
- Disc Burner software for creating data CDs with drag-and-drop ease

### Innovative design

- Small footprint for convenient desktop use
- No-fan design that allows virtually silent operation
- Apple Display Connector for easy display hookup and reduced desktop clutter
- Full-size Apple Pro Keyboard
- Optical Apple Pro Mouse for precision cursor control on nearly any surface
- Unique easy-access design that lets you lift out the core to add memory, install an AirPort Card, or upgrade the hard drive
- Choice of three outstanding Apple displays (sold separately)

Moviemaker. Digital jukebox. Supercomputer. All in a stunning eight-inch crystal cube that's a work of art inside and out. It's the new Power Mac G4 Cube.

Use the G4 Cube to make and share your own movie masterpieces. Just connect your digital camcorder with the included FireWire cable to transfer your footage, and use iMovie software to edit and enhance your video with professional-quality titles, transitions, soundtracks, and effects. To share your Desktop Movies with friends and family, save them back to your camcorder, copy them to videotape, or even post them on your own website using iTools, Apple's suite of free Internet services.

Apple's new iTunes software turns your G4 Cube into a digital jukebox. Use iTunes to import and manage your entire CD collection and create playlists of your favorite songs. Then play back your music on the included all-digital Harman Kardon speaker system for crystal-clear, heart-thumping audio right at your desk. To take your music with you, just download tracks to a portable MP3 player—or burn your own music CDs with the slot-loading CD-RW drive.<sup>1</sup>

Put supercomputer performance on your desktop. Powered by the extraordinary PowerPC G4 processor with built-in Velocity Engine, the G4 Cube reaches speeds of more than three billion calculations per second, saving you valuable time when you render special effects in your Desktop Movies, make CDs, or create MP3 files. For stunning 2D and 3D graphics, the G4 Cube comes with the ATI RAGE 128 Pro graphics card. Or, for the most demanding graphics needs, choose the optional NVIDIA GeForce2 or ATI RADEON graphics card.

The extraordinarily compact design of the G4 Cube makes it the most versatile home computer ever. It's cooled without a fan to allow virtually silent operation, so you can concentrate on your work (or play). The G4 Cube is easy to expand—just pop up the built-in handle and lift out the core to add memory or upgrade your hard drive. Or install an AirPort Card, and within minutes you can take advantage of Apple's high-speed wireless technology to access the Internet from almost anywhere within a 150-foot radius of an AirPort Base Station.<sup>4</sup> The G4 Cube also comes with a 56K modem<sup>5</sup> and an Ethernet port for connecting to a DSL or cable modem, so you get lots of options for accessing the Internet.

The Power Mac G4 Cube: An astoundingly versatile supercomputer in an eight-inch cube.



## Specification Sheet

### Power Mac G4 Cube

## Technical Specifications

### Processor

- 450-MHz PowerPC G4 processor
- Velocity Engine vector processing unit
- Full 128-bit internal memory data paths
- Powerful floating-point unit supporting single-cycle, double-precision calculations
- Data stream prefetching operations supporting four simultaneous 32-bit streams
- 1MB backside level 2 cache running at 225 MHz
- 100-MHz system bus supporting up to 800-Mbps data throughput

### Memory

- 128MB of PC100 SDRAM
- Three DIMM slots support up to 1.5GB of PC100 SDRAM<sup>2</sup> using up to 1.38-inch (35-mm) DIMMs, as follows:
  - 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

- 20GB 5400-rpm Ultra ATA/66 hard disk drive<sup>3</sup>
- Slot-loading CD-RW drive
- Support for external FireWire and USB storage devices

### Graphics support

- ATI RAGE 128 Pro graphics card with 16MB of SDRAM graphics memory installed in a dedicated AGP 2X graphics slot
- Support for up to 1920-by-1200-pixel resolution at 32 bits per pixel (millions of colors)
- Apple Display Connector (ADC); carries analog and digital video, USB, and power
- 15-pin mini D-Sub VGA connector

### Communications

- 10/100BASE-T Ethernet connector (RJ-45)
- Built-in 56K V.90 modem card<sup>5</sup>
- Optional 11-Mbps AirPort Card; IEEE 802.11 DSSS compliant<sup>4</sup>
- Optional AirPort Base Station containing 56K modem and 10BASE-T Ethernet port<sup>4</sup>

### Peripheral connections

- Two 400-Mbps FireWire (IEEE 1394) ports<sup>6</sup> 12W total power; includes 4-pin-to-6-pin FireWire cable for connecting DV camera
- Two USB ports (12 Mbps each)

### Speakers and audio

- Digital amplifier and speakers with Harman Kardon audio technology
  - Total power output: 20W
  - Frequency response: 80 Hz to 20 kHz
  - Single USB cable carries both power and audio; plugs into USB port on the G4 Cube or a display with ADC
  - Removable covers protect speaker cones
  - Digital amplifier module includes locking loop for theft prevention and minijack for connecting stereo headphones
- Support for external third-party FireWire and USB digital audio peripherals such as microphones, speakers, and MIDI devices

### Keyboard and mouse

- Apple Pro Keyboard with full-size function and navigation keys, audio controls, and media-eject key
- Apple Pro Mouse with optical sensor for precision cursor control

### Electrical requirements and agency approvals

- 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: 205W
- U.S. EPA ENERGY STAR compliant

### 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
- Altitude: 0 to 10,000 feet

### Size and weight

- Height: 9.8 inches (24.8 cm)
- Width: 7.7 inches (19.5 cm)
- Depth: 7.7 inches (19.5 cm)
- Weight: Approximately 14 pounds (6.4 kg)<sup>7</sup>



## Specification Sheet

### Power Mac G4 Cube



## Ordering Information

### Power Mac G4 Cube

Order No. M8328LL/A

Includes Apple Pro Keyboard; Apple Pro Mouse; Apple speakers; FireWire camcorder cable; RJ-11 modem cable; Mac OS 9.1, QuickTime, iMovie 2, iTunes, AppleWorks, Microsoft Internet Explorer, Microsoft Outlook Express, Netscape Communicator, FAXstf, Palm Desktop, Cro-Mag Rally, Bugdom, and Nanosaur software; Apple Hardware Test CD; complete setup, learning, and reference documentation; and limited warranty. Also includes 30 days of free Internet service through EarthLink.

Product contains electronic documentation. Backup copy of software is provided on CD-ROM.

## Build-to-Order Options

You can purchase the prebuilt system above, or you can order a custom-configured computer from your authorized Apple reseller or the online Apple Store. Build-to-order options can include the following; however, availability can vary. Check for up-to-date information at [www.apple.com/store](http://www.apple.com/store) or call 800-MY-APPLE.

- **Processor:** 450-MHz or 500-MHz PowerPC G4
- **Memory:** 128MB, 256MB, 384MB, 512MB, 768MB, 1GB, or 1.5GB<sup>2</sup>
- **Graphics:** ATI RAGE 128 Pro with 16MB of SDRAM, NVIDIA GeForce2 MX with 32MB of SDRAM, or ATI RADEON with 32MB of DDR RAM
- **Hard disk drives:** 20GB Ultra ATA/66 (5400 rpm), 40GB Ultra ATA/66 (5400 rpm), or 60GB Ultra ATA/66 (7200 rpm)<sup>3</sup>
- **Optical drives:** CD-RW or DVD-ROM
- **Communications:** AirPort Card, AirPort Base Station
- **Audio:** Harman Kardon SoundSticks speakers and subwoofer

## For More Information

For more information about this product, or to find out where to buy Apple products, visit [www.apple.com/hardware](http://www.apple.com/hardware) on the World Wide Web or call 800-538-9696. To purchase products from the Apple Store, go to [www.apple.com/store](http://www.apple.com/store) or call 800-MY-APPLE.

Visit the Macintosh Products Guide at [www.apple.com/guide](http://www.apple.com/guide) for the latest information on more than 18,000 hardware and software products for your new computer.

Apple offers iTools, a free suite of Internet services, to help you get more out of using the web. Visit [www.apple.com](http://www.apple.com) to sign up.

Your Power Mac G4 Cube comes with 90 days of telephone support and a one-year limited warranty. Purchase the AppleCare Protection Plan to extend your service and support to three full years. Only the AppleCare Protection Plan provides you with direct telephone support from Apple technical experts and the assurance that repairs will be handled by Apple-certified technicians using genuine Apple parts. For more information, visit [www.apple.com/support/products](http://www.apple.com/support/products) or call 800-823-2775.

## Apple Displays

- Apple Studio Display (17-inch CRT; 16-inch viewable); order no. M7770ZM/A
- Apple Studio Display (15-inch flat panel); order no. M7928ZM/A
- Apple Cinema Display (22-inch flat panel); order no. M8058ZM/A

<sup>1</sup> iTunes is licensed for reproduction of noncopyrighted materials or materials the user is legally permitted to reproduce.

<sup>2</sup> 999MB maximum per application in Mac OS 9.

<sup>3</sup> For hard drive capacity measurements, 1GB = 1 billion bytes; actual formatted capacity less.

<sup>4</sup> Wireless Internet access requires AirPort Card, AirPort Base Station, and Internet access (fees may apply). Some ISPs are not currently compatible with AirPort, including America Online. Range may vary with site conditions.

<sup>5</sup> Actual modem speeds lower; speed depends on connection rate and other factors.

<sup>6</sup> Actual rates will vary.

<sup>7</sup> Weight varies depending on configuration and manufacturing process.



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## Apple

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