



# Power Mac G4

Newly designed from the inside out, with an ultrafast Xserve-based architecture, the dual processor Power Mac G4 delivers unprecedented performance. For your next creative leap, scientific breakthrough, or production challenge, expand the boundaries of possibility with the new Power Mac G4—twin-engine supercomputer.



**Dual processor family.** All systems have dual PowerPC G4 processors—up to 1.25GHz—and L3 cache for the ultimate in performance and productivity.

**Mac OS X v10.2.** Experience robust multitasking and accelerated application performance with symmetric multiprocessing in Mac OS X.

**DDR SDRAM.** Provides memory bandwidth systemwide up to 2.7 GBps.

**Faster system bus.** New system controller transfers data with clock speeds up to 167MHz.

**AGP 4X graphics.** The NVIDIA or ATI graphics engines process up to 4.8 billion textured pixels per second for compelling 3D design, visualization, and gaming.

**Dual display support.** Support for two all-digital Apple flat-panel displays allows users to spread out timelines, media assets, and video windows.<sup>1</sup>

**Built-in DVD authoring.** Read, author, and burn DVDs and CDs with the powerful SuperDrive.<sup>2</sup>

**More expansion.** Slots, bays, and ports provide space for four PCI cards, nearly half a terabyte of storage, and connections to high-speed Gigabit Ethernet networks.

## Technical Specifications

### Processing and memory

- Dual 867MHz, 1GHz, or 1.25GHz PowerPC G4 processors
- 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 data streams
- 256K on-chip L2 cache running at processor speed
- Up to 2MB DDR SRAM L3 cache per processor with up to 4-GBps throughput
- Up to 167MHz system bus supporting over 1.3-GBps data throughput
- 256MB or 512MB of PC2100 or PC2700 DDR SDRAM main memory supporting up to 2.7-GBps throughput
- Four DIMM slots supporting up to 2GB of DDR SDRAM using one of the following<sup>3</sup>:
  - 256MB DIMMs (64-bit-wide, 128-Mbit)
  - 512MB DIMMs (64-bit-wide, 256-Mbit)

### Graphics and display support

- One of the following graphics cards installed in a dedicated AGP 4X graphics slot:
  - NVIDIA GeForce4 MX graphics card with 32MB of DDR SDRAM
  - ATI Radeon 9000 Pro graphics card with 64MB of DDR SDRAM
  - NVIDIA GeForce4 Ti graphics card with 128MB of DDR SDRAM (build-to-order option)
- Support for digital resolutions up to 1920 by 1200 pixels and analog resolutions up to 1600 by 1200 pixels
- ADC and DVI connectors; DVI to VGA adapter included
- Dual display support for extended desktop and video mirroring modes
- Support for up to two Apple displays<sup>1</sup>

### Storage and expansion

- Four 3.5-inch hard drive expansion bays
  - One 7200-rpm Ultra ATA/100 drive preinstalled in standard configurations: 60GB, 80GB, or 120GB<sup>4</sup>
  - Support for up to four internal ATA drives (two Ultra ATA/100 and two Ultra ATA/66)
  - Support for up to four internal SCSI drives (requires PCI SCSI card, sold separately)
  - Support for a combination of internal ATA and SCSI drives (total of four)

- One of the following optical drives:
  - SuperDrive (DVD-R/CD-RW); writes DVD-R discs at 2x speed, reads DVDs at 6x speed, writes CD-R discs at 8x speed, writes CD-RW discs at 4x speed, reads CDs at 24x speed
  - Combo drive (DVD-ROM/CD-RW); reads DVDs at 8x speed, writes CD-R discs at 16x speed, writes CD-RW discs at 10x speed, reads CDs at 32x speed
  - Optional Combo drive in second optical drive bay
- Four open full-length 64-bit, 33MHz PCI slots
- One AGP 4X slot with graphics card installed

### Communications

- 10/100/1000BASE-T Ethernet connector (RJ-45)
- Built-in antennas and card slot for optional 11-Mbps AirPort Card; IEEE 802.11b compliant<sup>5</sup>
- Built-in 56K V.92 modem<sup>6</sup>

### Peripherals and audio

- Two 400-Mbps FireWire ports<sup>7</sup> (15W total power)
- Four USB ports (two on system, two on keyboard)
- Front headphone jack
- Built-in speaker
- Stereo audio line in and line out minijacks
- Apple speaker minijack for connection to optional Apple Pro Speakers

### Electrical and environmental requirements

- Meets ENERGY STAR requirements
- Line voltage: 100–125V AC or 200–240V AC
- Frequency: 50Hz to 60Hz, single phase
- Maximum current: 6.5A (low-voltage range) or 7.5A (high-voltage range)
- 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

### Size and weight

- Height: 17.0 inches (43.2 cm)
- Width: 8.9 inches (22.7 cm)
- Depth: 18.4 inches (46.8 cm)
- Weight: 42 pounds (19.1 kg)<sup>8</sup>



## Specification Sheet

### Power Mac G4

## Configurations

Order no.	M8787LL/A	M8689LL/A	M8573LL/A
Processor	Dual 867MHz PowerPC G4	Dual 1GHz PowerPC G4	Dual 1.25GHz PowerPC G4
L3 cache	1MB DDR SRAM per processor	1MB DDR SRAM per processor	2MB DDR SRAM per processor
System bus	133MHz	167MHz	167MHz
Main memory (2GB maximum <sup>3</sup> )	256MB PC2100 (266MHz) DDR SDRAM	256MB PC2700 (333MHz) DDR SDRAM	512MB PC2700 (333MHz) DDR SDRAM
Hard drive <sup>4</sup>	60GB Ultra ATA/100; 7200 rpm	80GB Ultra ATA/100; 7200 rpm	120GB Ultra ATA/100; 7200 rpm
Optical drive	Combo (DVD-ROM/CD-RW)	SuperDrive (DVD-R/CD-RW)	SuperDrive (DVD-R/CD-RW)
Graphics support	NVIDIA GeForce4 MX with 32MB of DDR SDRAM	ATI Radeon 9000 Pro with 64MB of DDR SDRAM	ATI Radeon 9000 Pro with 64MB of DDR SDRAM
Expansion slots and bays	Four open 64-bit, 33MHz PCI slots; AGP 4X slot with graphics card installed; four internal hard drive bays (one occupied); two optical drive bays (one occupied)		
Ports	Two FireWire, four USB, front headphone minijack and speaker, rear Apple speaker minijack, audio line in, audio line out, ADC and DVI connectors for dual display support		
Networking	Built-in 10/100/1000BASE-T Ethernet and 56K modem <sup>6</sup> ; AirPort ready <sup>5</sup>		
Software	Mac OS X, Mac OS 9, QuickTime, iChat, iMovie, iPhoto, iTunes, iDVD (requires SuperDrive), DVD Player, Mac OS X Mail, Microsoft Internet Explorer, EarthLink (includes 30 days of free service), Acrobat Reader, Art Director's Toolkit, FAXstf, FileMaker Pro Trial, Graphic Converter, OmniGraffle, OmniOutliner, PixelNChance, Snapz Pro, Developer Tools		
Service and support	90 days of free telephone support and one-year limited warranty		
Included	Apple Pro Keyboard, Apple Pro Mouse, DVI to VGA adapter, modem cable		

Internet access requires a compatible Internet service provider; fees may apply. Product contains electronic documentation. Backup copy of software is provided on CD-ROM.

## Extended Service and Support

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.

## For More Information

For more information about this product or to purchase Apple products, visit the Apple Store online ([www.apple.com](http://www.apple.com) or 800-MY-APPLE), an Apple Store near you, or an authorized Apple reseller.

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

## Build-to-Order Options

Order a custom-configured computer from the Apple Store or an authorized Apple reseller. Build-to-order options can include the following.

- **Processor:** Dual 867MHz, dual 1GHz, dual 1.25GHz
- **Memory (PC2100 or PC2700 DDR SDRAM):** 256MB, 512MB, 1GB, 1.5GB, 2GB
- **Hard drives:** 60GB Ultra ATA/100 (7200 rpm), 80GB Ultra ATA/100 (7200 rpm), 120GB Ultra ATA/100 (7200 rpm), 36GB Ultra160 SCSI (10,000 rpm), 72GB Ultra160 SCSI (10,000 rpm)<sup>4</sup>
- **Optical drives:** SuperDrive (DVD-R/CD-RW), Combo drive (DVD-ROM/CD-RW)
- **Graphics:** NVIDIA GeForce4 MX with 32MB DDR SDRAM, ATI Radeon 9000 Pro with 64MB DDR SDRAM, NVIDIA GeForce4 Ti with 128MB DDR SDRAM
- **Audio:** Apple Pro Speakers, Apple iPod, Harman Kardon iSub, Harman Kardon SoundSticks
- **Other:** AirPort Card, AirPort Base Station, Ultra SCSI PCI card, Ultra160 SCSI PCI card, Bluetooth adapter, DVD-R Media Kit

## Apple Displays

Product	Order no.
Apple Studio Display (15-inch flat panel)	M7928ZM/A
Apple Studio Display (17-inch flat panel)	M7649ZM/A
Apple Cinema Display (22-inch flat panel)	M8058ZM/A
Apple Cinema HD Display (23-inch flat panel)	M8537ZM/A
Apple DVI to ADC Adapter	M8661LL/A

<sup>1</sup> Second Apple flat-panel display requires the Apple DVI to ADC Adapter, sold separately. <sup>2</sup> Selected models. <sup>3</sup> 999MB maximum per application in Mac OS 9. <sup>4</sup> 1GB = 1 billion bytes; actual formatted capacity less. <sup>5</sup> Wireless Internet access requires AirPort Card, AirPort Base Station, and Internet access (fees may apply). Some ISPs are not currently compatible with AirPort. Range may vary with site conditions. <sup>6</sup> Appropriate ISP and telephone services required. Your ISP may not support all V.92 features. Modem will function according to V.90 standards if V.92 services are not available. Actual modem speeds lower; speed depends on connection rate and other factors. <sup>7</sup> Actual rates will vary. <sup>8</sup> Weight varies by configuration and manufacturing process.