

# 15-inch PowerBook G4

The 15-inch PowerBook G4 offers the ideal balance of portability and power.

# **Key Features**

**Thin and light.** At just over an inch thin and 5.6 pounds,<sup>1</sup> the gorgeous aluminum design is sleek and durable.

**Performance architecture.** A PowerPC G4 processor up to 1.25GHz, DDR SDRAM up to 2GB, and a fast ATI mobile graphics processor deliver phenomenal performance.

Advanced wireless. With built-in antennas and an optional AirPort Extreme Card, you're ready for superfast wireless networking.<sup>2</sup> Integrated Bluetooth technology delivers cable-free connections to PDAs and mobile phones.

Leading digital connections. USB 2.0, FireWire 800, and Gigabit Ethernet provide the fastest-possible data connections to your peripherals and networks.

**SuperDrive.** The slot-loading SuperDrive<sup>3</sup> lets you burn custom CDs and professional DVDs using the included iDVD, iMovie, iPhoto, and iTunes applications.

**Illuminated keyboard.** A true ease-of-use breakthrough, the fiber-optic, backlit keyboard makes it possible to work in low-light environments.<sup>3</sup>

# Technical Specifications

#### Processor and memory

- 1GHz or 1.25GHz PowerPC G4 processor with Velocity Engine
- 512K SRAM on-chip L2 cache
- 167MHz system bus
- 256MB or 512MB of PC2700 (333MHz) DDR SDRAM; two SO-DIMM slots support up to 2GB

#### Storage

- 60GB or 80GB 4200-rpm Ultra ATA/100 hard drive; optional 80GB 5400-rpm drive<sup>4</sup>
- One of the following optical drives:
   Slot-loading Combo drive (DVD-ROM/CD-RW): reads DVDs at up to 8x speed, writes CD-R discs at up to 24x speed, writes CD-RW discs at up to
- 10x speed, reads CDs at up to 24x speed
  Slot-loading SuperDrive (DVD-R/CD-RW): writes DVD-R discs at up to 2x speed, reads DVDs at up to 8x speed, writes CD-R discs at up to 16x speed, writes CD-RW discs at up to 4x speed, reads CDs at up to 24x speed

#### Communications

- Built-in 54-Mbps AirPort Extreme wireless networking<sup>2</sup> (based on 802.11g standard; Wi-Fi Certified for 802.11g and 802.11b interoperability) in 1.25GHz configuration; optional in 1GHz configuration
- Built-in Bluetooth
- Built-in 10/100/1000BASE-T Gigabit Ethernet (RJ-45 connector)
- Built-in 56K V.92 modem<sup>5</sup> (RJ-11 connector)

## Expansion

- One FireWire 800 port at up to 800 Mbps; one FireWire 400 port at up to 400 Mbps<sup>6</sup>
- Two USB 2.0 ports at up to 480 Mbps
- PC Card/CardBus slot for Type I or Type II card

## Display

- 15.2-inch (diagonal) TFT widescreen display
   Support for millions of colors at 1280-by-854-pixel resolution
- Supported resolutions: 1280 by 854 (native),
  1152 by 768, 896 by 600, 720 by 480, and 640 by
  480 pixels at 3:2 aspect ratio; 1024 by 768, 800 by
  600, and 640 by 480 pixels at 4:3 aspect ratio

#### Video and graphics support

- ATI Mobility Radeon 9600 graphics processor with AGP 4X support and 64MB of DDR SDRAM
- Dual display and video mirroring: Simultaneously supports up to 1280 by 854 pixels on the built-in

display and up to 2048 by 1536 pixels on an external display, both at millions of colors<sup>7</sup>

- DVI output port
- VGA output using included DVI to VGA adapter
- S-video output port
- Composite video output using included S-video to composite adapter

### Audio

- Audio line in (minijack)
- Headphone out (minijack)
- Built-in stereo speakers with midrange-enhancing
   third speaker
- Internal omnidirectional microphone (located under left speaker grille)

## Battery and power

- 46-watt-hour lithium-ion battery with integrated charge indicator LEDs
- Up to 4.5 hours of battery life<sup>8</sup>
- 65W power adapter with cable management system
- Power adapter port

#### Security

Kensington cable lock slot

#### Keyboard and trackpad

- Built-in full-size keyboard with 78 (U.S.) or 79 (ISO) keys, including 12 function keys, 4 arrow keys (inverted "T" arrangement). and embedded numeric keypad
- Illuminated fiber-optic, backlit keyboard with ambient light sensor in 1.25GHz configuration
- Solid-state trackpad for precise cursor control; supports tap, double-tap, and drag capabilities

#### Electrical and environmental requirements

- Meets ENERGY STAR requirements
- Line voltage: 100V to 240V AC
- Frequency: 50Hz to 60Hz
- + Operating temperature: 50° to 95° F (10° to 35° C)
- Storage temperature: –40° to 116° F (–40° to 47° C)
- Relative humidity: 0% to 90% noncondensing
- Maximum operating altitude: 10,000 feet
- Maximum storage altitude: 15,000 feet
- Maximum shipping altitude: 35,000 feet

#### Size and weight

- Height: 1.1 inches (2.8 cm)
- Width: 13.7 inches (34.8 cm)
- Depth: 9.5 inches (24.3 cm)
- Weight: 5.6 pounds (2.5 kg) with battery and optical drive installed<sup>1</sup>

# Configurations

and software products for your Mac.

Order number	M8980LL/A	M8981LL/A
Processor	1GHz PowerPC G4	1.25GHz PowerPC G4
Level 2 cache	512K	512K
Memory	256MB of PC2700 (333MHz) DDR SDRAM	512MB of PC2700 (333MHz) DDR SDRAM
Hard drive	60GB Ultra ATA/100 <sup>4</sup>	80GB Ultra ATA/100 <sup>4</sup>
Optical drive	Slot-loading Combo (DVD-ROM/CD-RW)	Slot-loading SuperDrive (DVD-R/CD-RW)
Display	15.2-inch (diagonal) TFT widescreen	15.2-inch (diagonal) TFT widescreen
Graphics support	ATI Mobility Radeon 9600 with 64MB of DDR SDRAM	ATI Mobility Radeon 9600 with 64MB of DDR SDRAM
Wireless support	Built-in Bluetooth;	Built-in Bluetooth;
	54-Mbps AirPort Extreme ready <sup>2</sup>	built-in 54-Mbps AirPort Extreme <sup>2</sup>
Ethernet	10/100/1000BASE-T (Gigabit)	10/100/1000BASE-T (Gigabit)
Modem	56K V.92 <sup>5</sup>	56K V.92 <sup>5</sup>
Keyboard	Full size	Full size; backlit with ambient light sensor
Software	Mac OS X, Mail, iChat, Safari, Sherlock, Address Book, QuickTime, iLife (includes iTunes, iPhoto, iMovie, and iDVD <sup>9</sup> ), iSync, iCal, DVD Player, Classic environment, Acrobat Reader, Art Directors Toolkit, EarthLink TotalAccess 2003 (includes 30 days of free service), FAXstf, FileMaker Pro 6 Trial, GraphicConverter, Microsoft Office v. X Test Drive, OmniGraffle, OmniOutliner, QuickBooks for Mac New User Edition, Developer Tools, Apple Hardware Test	
Service and support	90 days of free telephone support and one-year limited warranty	
Also included	S-video to composite adapter, DVI to VGA adapter, modem cable, power adapter, AC wall plug, power cord	
Build-to-Order Options	You can order a custom-configured PowerBook G4 from the Apple Store or an Apple Authorized Reseller. Options include additional RAM, larger hard disk drive, AirPort Extreme Card, illuminated keyboard, type of optical drive, additional batteries and power adapters, Apple flat-panel displays, external keyboards and mice, and third-party peripherals.	
Apple Displays	<ul> <li>Apple Studio Display (17-inch flat panel), M7649ZM/B (requires Apple DVI to ADC Adapter)</li> <li>Apple Cinema Display (20-inch flat panel), M8893ZM/A (requires Apple DVI to ADC Adapter)</li> <li>Apple Cinema HD Display (23-inch flat panel), M8537ZM/A (requires Apple DVI to ADC Adapter)</li> <li>Apple DVI to ADC Adapter, M8661</li> </ul>	
Other Products	<ul> <li>Apple Portable Power Adapter, M8943LL/A</li> <li>15-inch PowerBook G4 Rechargeable Battery, M9325G/A</li> <li>AirPort Extreme Card, M8881LL/A</li> </ul>	<ul> <li>AirPort Extreme Base Station, M8930LL/A and M8799LL/A</li> <li>.Mac, M9036Z/A</li> <li>AppleCare Protection Plan, M8853LL/A</li> </ul>
Extended Service and Support	Purchase the AppleCare Protection Plan to extend your service and support to up to three full years. The plan provides support for your Mac, the Mac OS, and many Apple consumer applications, so just one phone call can help resolve most issues. You can also enroll one Apple display for coverage, provided that the PowerBook G4 and display are purchased together. For more information, visit www.apple.com/support/ products or call 800-823-2775.	
For More Information	Internet access requires a compatible Internet service provider; fees may apply. Product contains electronic documentation. Backup copy of software is included. <sup>1</sup> Actual weight varies by configuration and manufacturing process. <sup>2</sup> Wireless Internet access requires AirPort Extreme Card, AirPort Base Station or AirPort Extreme Base Station, and Internet access (fees may apply). Achieving data rates up to 54 Mbps requires that all users have an AirPort Extreme Base Station, and Internet access (fees may apply). Achieving data rates up to 54 Mbps requires that all users have an AirPort Extreme Card and connect to an AirPort Extreme Base Station. Some ISPs are not currently compatible with AirPort and AirPort Extreme. Range may vary with site conditions. <sup>3</sup> Available in selected models. <sup>4</sup> IGB = 1 billion bytes; actual formatted capacity less. <sup>5</sup> Compatible ISP and telephone services required. Your ISP may not support all V92 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>6</sup> Actual rates will vary. <sup>7</sup> Some third-party DVI displays may not support all resolutions. <sup>8</sup> Battery life depends on configuration and use. 4.5 hours applies to standard 1GHz model. <sup>9</sup> IDVD requires Apple SuperDrive. © 2003 Apple Computer, Inc. All rights reserved. Apple, the Apple logo, AirPort, Apple Cinema Display, Apple Store, Apple Studio Display, FireWire, iMovie, iTunes, Mac, Macintosh, Mac OS, PowerBook, QuickTime, and Sherlock are trademarks of Apple Computer, Inc., registered in the U.S. and other countries. ICal, IChat, IDVD, ILife, IPhoto, Safari, SuperDrive, and Velocity Engine are trademarks of Apple Computer, Inc. All rights reserved and real accenter lost radiotarios the set of and other countries. ICal, IChat, IDVD, ILife, IPhoto, Safari, SuperDrive, and Velocity Engine are trademarks of Apple Computer lost photopic real is a senvice mark of Apple Computer lost. Radiotarios the set of an other set of the	
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