



**System Fact Sheet**

"Mobility redefined."

**SYSTEM**

**Introduced:** May 2002  
**Discontinued:** November 2002  
**Gestalt ID:** 406  
**Form Factor:** PowerBook G4  
**Weight (lbs.):** 5.3  
**Dimensions (inches):** 1 H x 13.4 W x 9.5 D

**Codename:** Onyx  
**Order Number:** M8591LL/A  
**KB Article #:**

**POWER**

**Max. Watts:** 50  
**Amps:** 1.2  
**BTU Per Hour:** 171  
**Voltage Range:** 100-240  
**Freq'y Range (Hz):** 50-60  
**Battery Type:** 50 WH Lithium Ion  
 **Soft Power**  
 **Monitor Power Outlet**

**PORTS**

**ADB:** 0  
**Video:** S-Video & DVI  
**Floppy:** none  
**SCSI:** none  
**GeoPort Connectors:** none  
**Ethernet:** 10/100/1000Base-T  
**Microphone Port Type:** PlainTalk

**Printer**     **Speaker**  
 **Modem**     **Headphone**  
 **Airport**     **Remote Control**

*1 FireWire port.*

**VIDEO**

**Built-in Display:** 15.2-inch (diagonal) built-in TFT XGA

	512	640	640	640	800	832	1024	1152	1280
<b>VRAM Speed:</b>	x384	x400	x480	x870 <sup>2</sup>	x600	x624	x768	x870	x1024
<b>VRAM Needed:</b>	n/a	built-in							32
<b>Video Configuration:</b>			built-in LCD (16MB VRAM)						

**Maximum Color Bit-depth<sup>1</sup> At:**

<sup>1</sup> 1-bit = Black & White; 2-bit = 4 colors; 4-bit = 16 colors; 8-bit = 256 colors; 16-bit = Thousands; 24-bit = Millions  
<sup>2</sup> The maximum color depth listed for 640x870 is 8-bit, reflecting the capabilities of the Apple 15" Portrait Display.

ATI Mobility Radeon 7500 video card supports millions of colors at 1,280- by 854-pixel resolution; Supports 3:2 aspect ratio resolutions of 1280 by 854, 1152 by 768, 896 by 600, 720 by 480, and 640 by 480 pixels; Supports 4:3 aspect ratio resolutions of 1024 by 768, 800 by 600, and 640 by 480

**LOGIC BOARD**

**Main Processor:** G4, 667/800 MHz  
**PMMU:** integrated  
**FPU:** integrated  
**Data Path:** 64-bit, 133 Mhz  
**L1 Cache:** 64K  
**L2 Cache:** 256K  
**Secondary Processor:** none  
**Slots:** 1 Type II PC Card

**MEMORY**

**Memory on Logic Board:** none  
**Minimum RAM:** 256/512  
**Maximum RAM:** 1 GB  
**RAM Slots:** 2 PC133  
**Minimum RAM Speed:** 10 ns  
**RAM Sizes:** 64, 128, 256, 512 MB  
**Install in Groups of:** 1

**SOFTWARE**

**Speech Recognition Supported**

**Addressing Modes:** 32-bit  
**Original SSW:** OS X & 9.2.2  
**Original Enabler:**

**ROM ID:**  
**ROM Version:**  
**ROM Size:**  
**AppleTalk Version:**

**Supported Macintosh System Software:**

<input type="checkbox"/> A/UX 1.0	<input type="checkbox"/> NOS 1.11	<input type="checkbox"/> ProDOS	<input type="checkbox"/>
<input type="checkbox"/> A/UX 1.11	<input type="checkbox"/> NOS 1.3	<input type="checkbox"/> GS/OS	<input type="checkbox"/>
<input type="checkbox"/> A/UX 2.0	<input type="checkbox"/> NOS 2.0	<input type="checkbox"/> NeXTStep 1.x	<input type="checkbox"/>
<input type="checkbox"/> A/UX 3.0.1	<input type="checkbox"/> NOS 2.1	<input type="checkbox"/> NeXTStep 2.x	<input type="checkbox"/>
<input type="checkbox"/> A/UX 4.1.4	<input type="checkbox"/> LOS 7/7	<input type="checkbox"/> NeXTStep 3.x	<input type="checkbox"/>
<input type="checkbox"/> A/UX 4.1.4.1	<input type="checkbox"/> DOS 3.1	<input type="checkbox"/> OpenStep	<input type="checkbox"/>
<input type="checkbox"/> A/UX 4.1.5	<input type="checkbox"/> SOS 1.3	<input type="checkbox"/> <1.0	<input type="checkbox"/>

**SOUND**

**Built-in Microphone**

**Microphone Port Type:** PlainTalk  
**Sound In:** stereo, 16-bit  
**Sound Out:** stereo, 16-bit

**STORAGE**

**Supports Internal CD-ROM**

**Floppy Size:** none  
**Floppy Inject:** manual  
**Internal HD Size:** 30, 40 GB  
**Internal HD Interface:** Ultra ATA  
**Original CD-ROM Speed:** 24x

**HISTORY**

Originally announced in January 2001, the PowerBook G4 was a dramatic change to Apple's PowerBook line. Based on a new low-power G4 chip, the PPC 7410, the PowerBook G4 sported a stylish new Titanium enclosure, which was only 1" thick, .7" thinner than its predecessor, the PowerBook G3 (Firewire). The reduction in size came at a price, however: the PB G4 had a fixed, 6x slot-load DVD-ROM drive instead of a removable drive bay, and a single battery bay (previous models allowed the use of the drive bay as a second battery bay).

A speed-bump was released on May 2, 2002 which now made the low-end model at 600MHz (M8591LL/A) with 256MB of RAM, 1MB of Level 3 Cache with 2.5-Gbps throughput and a 30GB HD for \$2499 and the high-end at 800MHz (M8592LL/A) with 512MB of RAM, 1MB of Level 3