Notebook Tour

Document Part Number: 430225-001

January 2007

This guide explains the computer hardware features.

Contents

TD
Top components
Lights
Pointing devices
Buttons, switches and readers 1–8
Keys1–11
Hotkey quick reference
Front components
Rear components
Right-side components1–17
Left-side components
Bottom components
WLAN antennae
WWAN antennae (select models only) 1–26
Additional hardware components
Labels

Index

2 Specifications

Components

Notebook Tour ii

Components

This chapter explains the hardware features of the computer.

To see a list of hardware installed in the computer:

- 1. Select Start > Computer > System properties.
- 2. In the left task pane, click **Device Manager**.

You can also add hardware or modify your device configurations using Device Manager.



Components included with the computer may vary by region and by model. The illustrations in this chapter identify the standard external features included in most computer models.

Top components

Lights



Refer to the illustration that most closely matches your computer.



Component		Description
0	Power lights* (2)	On: The computer is on. Blinking: The computer is in the Sleep state. Blinking rapidly: An AC adapter with a higher power rating should be connected. Off: The computer is off or in Hibernation.

(Continued)

1–2 Notebook Tour

Co	mponent	Description
2	Wireless lights† (2)	On: An integrated wireless device, such as a wireless local area network (WLAN) device, a wireless wide-area network (WWAN), and/or a Bluetooth® device, is turned on.
8	Caps lock light	On: Caps lock is on.
4	Num lock light	On: Num lock is on or the embedded numeric keypad is enabled.
6	Volume mute light	On: Computer sound is turned off.
6	Battery light	Amber: A battery pack is charging. Green: A battery pack is close to full charge capacity. Blinking amber: A battery pack that is the only available power source has reached a low battery level. When the battery reaches a critical battery level, the battery light begins blinking rapidly. Off: If the computer is plugged into an external power source, the light is turned off when all batteries in the computer are fully charged. If the computer is not plugged into an external power source, the light stays off until the battery reaches a low battery level.
•	Drive light	Blinking: The hard drive or optical drive is being accessed.

^{*}There are 2 power lights. Both display the same information. The light on the power button is visible only when the computer is open; the other power light is always visible on the front of the computer.

[†]There are 2 wireless lights. Both display the same information. The light on the wireless button is visible only when the computer is open; the other wireless light is always visible on the front of the computer.



Component		Description
0	Power lights* (2)	On: The computer is on. Blinking: The computer is in the Sleep state. Blinking rapidly: An AC adapter with a higher power rating should be connected. Off: The computer is off or in Hibernation.
2	Wireless lights [†] (2)	On: An integrated wireless device, such as a wireless local area network (WLAN) device, a wireless wide-area network (WWAN), and/or a Bluetooth device, is turned on.
8	Caps lock light	On: Caps lock is on.
		(Continued)

1–4 Notebook Tour

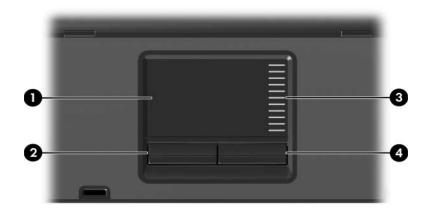
Co	mponent	Description
4	Num lock light	On: Num lock is on or the embedded numeric keypad is enabled.
6	Battery light	Amber: A battery pack is charging. Green: A battery pack is close to full charge capacity. Blinking amber: A battery pack that is the only available power source has reached a low battery level. When the battery reaches a critical battery level, the battery light begins blinking rapidly. Off: If the computer is plugged into an external power source, the light is turned off when all batteries in the computer are fully charged. If the computer is not plugged into an external power source, the light stays off until the battery reaches a low battery level.
0	Drive light	Blinking: The hard drive or optical drive is being accessed.

^{*}There are 2 power lights. Both display the same information. The light on the power button is visible only when the computer is open; the other power light is always visible on the front of the computer.

[†]There are 2 wireless lights. Both display the same information. The light on the wireless button is visible only when the computer is open; the other wireless light is always visible on the front of the computer.

Pointing devices

TouchPad (select models only)

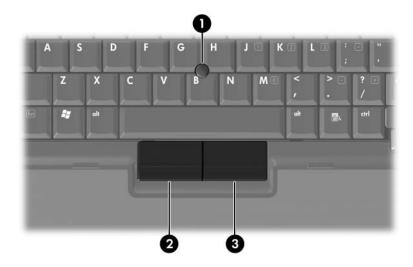


Component		Description
0	TouchPad*	Moves the pointer and selects or activates items on the screen. Can be set to perform other mouse functions, such as scrolling, selecting, and double-clicking.
2	Left TouchPad button*	Functions like the left button on an external mouse.
8	TouchPad scroll zone	Scrolls up or down.
4	Right TouchPad button*	Functions like the right button on an external mouse.
		ings. To view and change TouchPad rol Panel > Hardware and Sound >

Mouse.

1–6 Notebook Tour

Pointing stick (select models only)

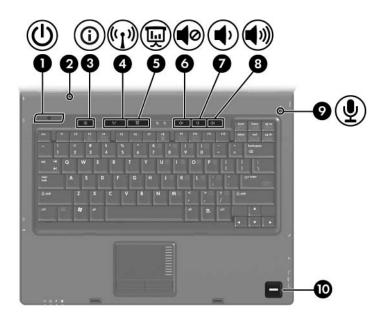


Component		Description
0	Pointing stick	Moves the pointer and selects or activates items on the screen.
2	Left pointing stick button	Functions like the left button on an external mouse.
8	Right pointing stick button	Functions like the right button on an external mouse.

Buttons, switches and readers



Refer to the illustration that most closely matches your computer.

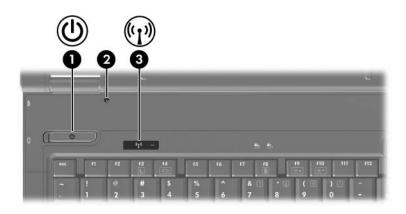


Component		Description
0	Power button	When the computer is off, press the power button to turn on the computer.
		If the computer has stopped responding and Windows® shutdown procedures cannot be used, press and hold the power button for at least 5 seconds to turn off the computer.
		To learn more about your power settings, select Start > Control Panel > System and Maintenance > Power Options .

(Continued)

1–8 Notebook Tour

Co	mponent	Description	
2	Display switch	Initiates the Sleep state if the display is closed while the computer is on.	
8	Info Center button	Launches Info Center, which enables you to open various software solutions.	
4	Wireless button*	Turns the wireless feature on or off, but does not create a wireless connection.	
	To establish a wireless of already be set up.	connection, a wireless network must	
6	Presentation button	Starts the Presentation feature.	
0	Volume mute button	Mutes and restores computer sound.	
0	Volume down button	Decreases computer volume.	
8	Volume up button	Increases computer volume.	
0	Internal microphone	Records sound.	
•	Fingerprint reader	Allows a fingerprint logon to Windows, instead of a password logon.	
	*This table describes default settings. For information about changing default settings, refer to the user guides located in Help and Support.		



Co	mponent	Description
0	Power button	When the computer is off, press the power button to turn on the computer. If the computer has stopped responding and Windows® shutdown procedures cannot be used, press
		and hold the power button for at least 5 seconds to turn off the computer.
		To learn more about your power settings, select Start > Control Panel > System and Maintenance > Power Options.
2	Display switch	Initiates the Sleep state if the display is closed while the computer is on.
8	Wireless button*	Turns the wireless feature on or off, but does not create a wireless connection.
	To establish a wireless of already be set up.	connection, a wireless network must
	*This table describes default settings. For information about changing default settings, refer to the user guides located in Help and Support.	

1–10 Notebook Tour

Keys



Your computer may look slightly different from the illustration in this chapter.



Component		Description
0	esc key	Displays system information when pressed in combination with the fn key.
2	fn key	Executes frequently used system functions when pressed in combination with a function key or the esc key.
0	Windows logo key	Displays the Windows Start menu.
4	Windows applications key	Displays a shortcut menu for items beneath the pointer.

(Continued)

Component		Description	
6	Embedded numeric keypad keys	Can be used like the keys on an external numeric keypad.	
6	Function keys	Execute frequently used system functions when pressed in combination with the fn key.	
	Refer to the table in "Ho of each hotkey.	otkey quick reference" for a description	

Hotkey quick reference

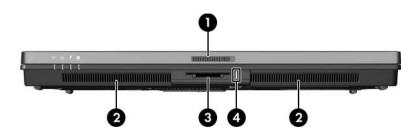
To perform this function	Press
Initiate Sleep.	fn+f3
Exit Sleep	Power button
Alternate between computer display and external display	fn+f4
Display battery information	fn+f8
Clear battery information	fn+f8
Decrease screen brightness	fn+f9
Increase screen brightness	fn+f10
Display system information	fn+esc
Clear system information	fn+esc or press enter

1–12 Notebook Tour

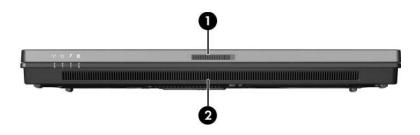
Front components



Refer to the illustration that most closely matches your computer.



Cor	mponent	Description
0	Display release latch	Opens the computer.
2	Speakers (2)	Produce system sound.
③	Digital Media Slot	Supports 7 optional digital card formats: SD (Secure Digital) Memory Card, MultiMediaCard, Memory Stick, Memory Stick Pro, Memory Stick Duo (with adapter), SmartMedia card, and xD-Picture Card.
4	Digital Media Slot light	On: A digital card is being accessed.



Cor	mponent	Description
0	Display release latch	Opens the computer.
0	Speakers (2)	Produce system sound.

1–14 Notebook Tour

Rear components



Refer to the illustration that most closely matches your computer.



Cor	mponent	Description
0	Security cable slot	Attaches an optional security cable to the computer.
		designed to act as a deterrent, but may not from being mishandled or stolen.
2	Power connector	Connects an AC adapter.
6	Parallel port	Connects an optional printer.
4	S-Video-out jack	Connects an optional S-Video device such as a television, VCR, camcorder, overhead projector, or video capture card.



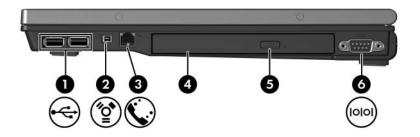
Cor	mponent	Description
0	Security cable slot	Attaches an optional security cable to the computer.
	The security cable is of prevent the computer	designed to act as a deterrent, but may not from being mishandled or stolen.
2	Power connector	Connects an AC adapter.

1–16 Notebook Tour

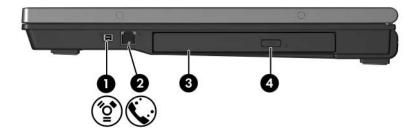
Right-side components



Refer to the illustration that most closely matches your computer.



Cor	mponent	Description
0	USB ports (2)	Connect optional USB devices.
2	1394 port	Connects an optional IEEE 1394 device, such as a camcorder.
8	RJ-11 (modem) jack	Connects a modem cable.
4	Optical drive	Reads an optical disc.
6	Optical drive button	Releases the media tray.
0	Serial port	Connects an optional serial device.



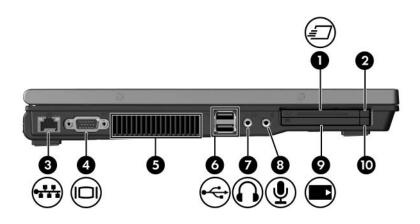
Cor	mponent	Description
0	1394 port	Connects an optional IEEE 1394 device, such as a camcorder.
2	RJ-11 (modem) jack	Connects a modem cable.
8	Optical drive	Reads an optical disc.
4	Optical drive button	Releases the media tray.

1–18 Notebook Tour

Left-side components



Your computer may look slightly different from the illustration in this chapter.



Cor	mponent	Description
0	ExpressCard slot (select models only)	Supports optional ExpressCard/54 or ExpressCard/34 cards.
2	ExpressCard slot eject button	Ejects the ExpressCard from the ExpressCard slot.
6	RJ-45 (network) jack	Connects a network cable.
4	External monitor port	Connects an external monitor.

(Continued)

Coı	Component		Description	
6	Vent		Enables airflow to cool internal components.	
	<u> </u>	only on a hard, flat surfa such as an adjoining op	do not obstruct vents. Use the computer ice. Do not allow another hard surface, tional printer, or a soft surface, such as elothing, to block airflow.	
	<i>∞</i> 0	components and preven	up automatically to cool internal at overheating. It is normal for the and off during routine operation.	
0	USB p	orts (2)	Connect optional USB devices.	
•	Audio	out (headphone) jack	Produces system stereo sound when connected to optional powered stereo speakers, headphones, ear buds, a headset, or television audio.	
8	Audio-	in (microphone) jack	Connects an optional headset microphone or a monaural microphone.	
•	PC Ca	ard slot	Supports optional Type I, Type II, or Type III 32-bit (CardBus) or 16-bit PC Cards. Some models may be shipped with a smart card reader instead.	
1	PC Ca	ard slot eject button	Ejects the PC Card from the	

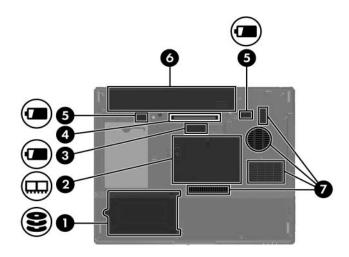
PC Card slot.

1–20 Notebook Tour

Bottom components



Refer to the illustration that most closely matches your computer.



Co	mponent	Description
0	Hard drive bay	Holds the hard drive.
2	Expansion memory module and Mini Card compartment	Contains the expansion memory module slot and a wireless LAN device (select models only).
	↑ To prevent an unresponsive system and the display of a	

warning message, replace with only a Mini Card device authorized for use in the computer by the governmental agency that regulates wireless devices in your country. If you replace the device and then receive a warning message, remove the device to restore computer functionality. Then contact Customer Care through Help and Support.

(Continued)

Co	mponent	Description
8	Accessory battery connector	Connects an optional accessory battery pack.
4	Docking connector	Connects the computer to an optional docking device.
6	Primary battery pack release latches (2)	Release the primary battery pack from the battery bay.
6	Battery bay	Holds the primary battery pack.
7	Vents (4)*	Enable airflow to cool internal components.



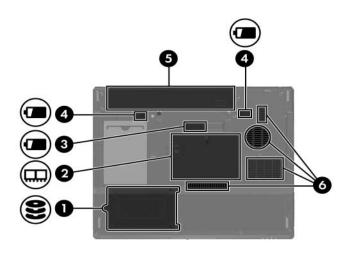
To prevent overheating, do not obstruct vents. Use the computer only on a hard, flat surface. Do not allow another hard surface, such as an adjoining optional printer, or a soft surface, such as pillows or thick rugs or clothing, to block airflow.



The computer fan starts up automatically to cool internal components and prevent overheating. It is normal for the internal fan to cycle on and off during routine operation.

1–22 Notebook Tour

^{*}Depending on your computer model, the vents on the computer may vary in number and location.



Coi	mponent	Description
0	Hard drive bay	Holds the hard drive.
2	Expansion memory module and Mini Card compartment	Contains the expansion memory module slot and a wireless LAN device (select models only).
	warning message, replace authorized for use in the that regulates wireless d the device and then rece	sive system and the display of a ce with only a Mini Card device computer by the governmental agency evices in your country. If you replace sive a warning message, remove the ter functionality. Then contact Customer Support.
8	Accessory battery connector	Connects an optional accessory battery pack.
4	Primary battery pack release latches (2)	Release the primary battery pack from the battery bay.

(Continued)

Component		Description
6	Battery bay	Holds the primary battery pack.
6	Vents (4)*	Enable airflow to cool internal components.



To prevent overheating, do not obstruct vents. Use the computer only on a hard, flat surface. Do not allow another hard surface, such as an adjoining optional printer, or a soft surface, such as pillows or thick rugs or clothing, to block airflow.



The computer fan starts up automatically to cool internal components and prevent overheating. It is normal for the internal fan to cycle on and off during routine operation.

1–24 Notebook Tour

^{*}Depending on your computer model, the vents on the computer may vary in number and location.

WLAN antennae

Two wireless antennae inside the display enclosure send and receive wireless device signals over wireless local area networks (WLANs). These antennae are not visible from the outside of the computer. For optimal transmission, keep the areas immediately around the antennae free from obstructions.

To see wireless regulatory notices, refer to your country's section of the *Regulatory, Safety and Environmental Notices* located in Help and Support.



Your computer may look slightly different from the illustration in this chapter.



WWAN antennae (select models only)



The availability of the WWAN antennae vary by region and country.

Two wireless antennae inside the display enclosure allow you to connect to a wireless wide-area network (WWAN), and then to the Internet, using the integrated HP Broadband Wireless module and service from a supported cellular network operator.

For more information on HP Broadband Wireless and how to sign up for service, refer to the *HP Broadband Wireless Getting Started* guide that shipped with your computer.



Your computer may look slightly different from the illustration in this chapter.



1–26 Notebook Tour

Additional hardware components



Component		Description
0	HP Smart AC Adapter	Converts AC power to DC power.
2	Power cord*	Connects an AC adapter to an AC outlet.
8	Battery pack*	Powers the computer when the computer is not plugged into external power.
4	Modem cable*	Connects the internal modem to an RJ-11 telephone jack or to a country-specific modem adapter.
*Modem cables, battery packs, and power cords vary in appearance by region and country.		

Labels

The labels affixed to the computer provide information you may need when you troubleshoot system problems or travel internationally with the computer.

- Service tag—Provides the product brand and series name, serial number (s/n), and product number (p/n) of the computer. Have this information available when you contact Customer Care. The service tag label is affixed to the bottom of the computer.
- Microsoft® Certificate of Authenticity—Contains the Windows Product Key. You may need the Product Key to update or troubleshoot the operating system. This certificate is affixed to the bottom of the computer.
- Regulatory label—Provides regulatory information about the computer. The regulatory label is affixed to the bottom of the computer.
- Modem approval label—Provides regulatory information about the modem and lists the agency approval markings required by some of the countries in which the modem has been approved for use. You may need this information when traveling internationally. The modem approval label is affixed to the bottom of the computer.
- Wireless certification label(s)—Provide information about optional wireless devices and the approval markings of some of the countries in which the devices have been approved for use. An optional device may be a wireless local area network (WLAN) device, a wireless wide-area network (WWAN) device, or an optional Bluetooth® device. If your computer model includes one or more wireless devices, one certification label per wireless device is included with your computer. You may need this information when traveling internationally. The WLAN and Bluetooth wireless certification labels are affixed inside the expansion memory module compartment. The WWAN certification label is affixed inside the battery compartment.

1–28 Notebook Tour

Specifications

The following sections provide information on the operating environment specifications and power specifications of the computer.

Operating environment

The operating environment information in the following table may be helpful if you plan to use or transport the computer in extreme environments.

Metric	U.S.	
0°C to 35°C	32°F to 95°F	
5°C to 35°C	41°F to 95°F	
-20°C to 60°C	-4°F to 140°F	
10% to 90%	10% to 90%	
5% to 95%	5% to 95%	
Maximum altitude (unpressurized)		
-15 m to 3,048 m	-50 ft to 10,000 ft	
-15 m to 12,192 m	-50 ft to 40,000 ft	
	0°C to 35°C 5°C to 35°C -20°C to 60°C 10% to 90% 5% to 95%	

altitude.

2-1 Notebook Tour

Rated input power

The power information in this section may be helpful if you plan to travel internationally with your computer.

The computer operates on DC power, which can be supplied by an AC or a DC power source. Although the computer can be powered from a stand-alone DC power source, it should be powered only with an AC adapter or a DC power cord supplied by or approved for an HP computer.

The computer is capable of accepting DC power within the following specifications.

Input power	Rating
Operating voltage	18.5 V dc @ 3.5 A - 65 W
Operating current	3.5 A

This product is designed for IT power systems in Norway with phase-to-phase voltage not exceeding 240 V rms.

2–2 Notebook Tour

Index

AC adapter, identifying 1–27 accessory battery connector, identifying 1–22, 1–23 altitude specifications 2–1 antennae 1–25, 1–26 applications key, Windows 1–11 audio-in (microphone) jack 1–20 audio-out (headphone) jack 1–20 B battery bay 1–22, 1–24, 1–28 battery light, identifying 1–3, 1–5 battery pack release latch 1–22, 1–23 battery pack, identifying 1–27 bays battery 1–22, 1–24, 1–28 hard drive 1–21, 1–23 Bluetooth label 1–28	buttons ExpressCard slot eject 1–19 Info Center 1–9 mute 1–9 optical drive 1–17, 1–18 PC Card slot eject 1–20 power 1–8, 1–10 Presentation 1–9 TouchPad 1–6 volume 1–9 wireless 1–9, 1–10 C cables modem 1–19 network 1–19 RJ-11 (modem) 1–27 caps lock light 1–3, 1–4 Certificate of Authenticity label 1–28 compartments expansion memory module and Mini Card 1–21, 1–23 components bottom 1–21 front 1–13
--	--

Notebook Tour Index-1

left-side 1–19 rear 1–15 right-side 1–17 top 1–2 connectors accessory battery 1–22, 1–23 docking 1–22 power 1–15, 1–16 cord, power, identifying 1–27	hard drive bay, identifying 1–21, 1–23 headphone (audio-out) jack 1–20 hotkeys initiating Sleep 1–12 Quick Reference 1–12 HP Smart AC Adapter, identifying 1–27 humidity specifications 2–1
digital cards 1–13 Digital Media Slot light 1–13 Digital Media Slot, location 1–13 display release latch 1–13, 1–14 display switch, identifying 1–9, 1–10 docking connector 1–22 drive light 1–3, 1–5 drives, optical 1–17, 1–18 E eject button, PC Card slot 1–20 environmental specifications 2–1 ExpressCard slot 1–19 ExpressCard slot eject button 1–19 external monitor port 1–19 F fingerprint reader 1–9 fn key 1–11 function keys 1–12	IEEE 1394 port 1–17, 1–18 Info Center button 1–9 internal microphone 1–9 J jacks audio-in (microphone) 1–20 audio-out (headphone) 1–20 RJ-11 (modem) 1–17, 1–18 RJ-45 (network) 1–19 S-Video-out 1–15 K keypad keys 1–12 keys esc 1–11 fn 1–11 function 1–12 keypad 1–12 Windows applications 1–11 Windows logo 1–11

Index-2 Notebook Tour

L	Microsoft Certificate of
labels	Authenticity label 1–28
Microsoft Certificate of	Mini Card compartment 1–21,
Authenticity 1–28	1–23
modem approval 1–28	modem approval label 1–28
regulatory 1–28	modem cable 1–19
service tag 1–28	monitor port, external 1–19
wireless certification 1–28	MultiMediaCard 1–13
WLAN 1–28	mute button 1–9
latches	
battery pack release 1–22,	N
1–23	network (RJ-45) jack 1–19
display release 1–13, 1–14	network cable 1–19
lights	num lock light 1–3, 1–5
battery 1–3, 1–5	0
caps lock 1–3, 1–4	operating environment
Digital Media Slot 1–13	specifications 2–1
drive 1–3, 1–5	operating system
num lock 1–3, 1–5	Microsoft Certificate of
power 1–2, 1–4	Authenticity label 1–28
volume mute 1–3	Product Key 1–28
wireless 1–3, 1–4	optical drive button 1–17,
lock, security cable 1–15,	1–18
1–16	optical drive, identifying 1–17,
	1–18
M	P
memory module compartment,	-
expansion 1–21, 1–23	parallel port 1–15 PC Card slot 1–20
Memory Stick 1–13	
Memory Stick Duo 1–13	PC Card slot eject button 1–20
Memory Stick Pro 1–13	pointing stick
microphone (audio-in) jack	buttons 1–7
1–20	location 1–7
microphone, internal 1–9	ports
	1394 1–17, 1–18
	external monitor 1–19

Notebook Tour Index-3

parallel 1–15 serial 1–17 USB 1–17, 1–20 power button 1–8, 1–10 power connector 1–15, 1–16 power cord 1–27 power light 1–2, 1–4 Presentation button 1–9 Product Key 1–28 product name and number, computer 1–28 R rated input power specifications 2–2 regulatory information modem approval label 1–28 regulatory label 1–28 wireless certification labels 1–28 release latch battery pack 1–22, 1–23 display 1–13, 1–14 RJ-11 (modem) cable 1–27 RJ-11 (modem) jack 1–17, 1–18	service tag 1–28 Sleep hotkey 1–12 slots Digital Media 1–13 ExpressCard 1–19 memory 1–21, 1–23 PC Card 1–20 security cable 1–15, 1–16 SmartMedia (SM) card 1–13 speakers 1–13, 1–14 specifications operating environment 2–1 rated input power 2–2 S-Video-out jack 1–15 switches display 1–9, 1–10 identifying 1–9, 1–10 Ttemperature specifications 2–1 TouchPad 1–6 traveling with computer environmental specifications 2–2 modem approval label 1–28 wireless certification labels
RJ-45 (network) jack 1–19	1–28
scrolling regions, TouchPad 1-6 Secure Digital (SD) Memory Card 1-13 security cable slot 1-15, 1-16 serial number, computer 1-28 serial port 1-17	USB ports, identifying 1–17, 1–20 V vents 1–20, 1–22, 1–24 volume buttons 1–9 volume mute light 1–3

Index-4 Notebook Tour

W

Windows applications key 1–11
Windows logo key 1–11
wireless antennae 1–25, 1–26
wireless button 1–9, 1–10
wireless certification label 1–28
wireless light 1–3, 1–4
WLAN label 1–28
WWAN label 1–28

X

xD-Picture Card 1-13

Notebook Tour Index-5

© Copyright 2007 Hewlett-Packard Development Company, L.P.

Microsoft and Windows are U.S. registered trademarks of Microsoft Corporation. SD Logo is a trademark of its proprietor. Bluetooth is a trademark owned by its proprietor and used by Hewlett-Packard Company under license.

The information contained herein is subject to change without notice. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

Notebook Tour

First Edition: January 2007

Document Part Number: 430225-001