Notebook Tour
User Guide

© Copyright 2009 Hewlett-Packard Development Company, L.P.

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

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.

Second Edition: August 2009

First Edition: August 2009

Document Part Number: 539971-002

Product notice

This user guide describes features that are common to most models. Some features may not be available on your computer.

Safety warning notice

⚠ **WARNING!** To reduce the possibility of heat-related injuries or of overheating the computer, do not place the computer directly on your lap or obstruct the computer air 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 rugs or clothing, to block airflow. Also, do not allow the AC adapter to contact the skin or a soft surface, such as pillows or rugs or clothing, during operation. The computer and the AC adapter comply with the user-accessible surface temperature limits defined by the International Standard for Safety of Information Technology Equipment (IEC 60950).

Table of contents

1 Identifying hardware

2 Components

Top components 2
TouchPad 2
Lights 3
Buttons, speakers, and fingerprint reader 5
Keys 6
Display 7
Front components 8
Rear component 9
Right-side components 9
Left-side components 10
Bottom components 11
Wireless antennas 12
Additional hardware components 13

3 Labels

Index 16

1 Identifying hardware

To see a list of hardware installed in the computer:

- Select **Start > Control Panel > System and Security**. Then in the **System** area, click **Device Manager**.

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

NOTE: Windows® includes the User Account Control feature to improve the security of your computer. You may be prompted for your permission or password for tasks such as installing applications, running utilities, or changing Windows settings. Refer to Windows Help for more information.

2 Components

Top components

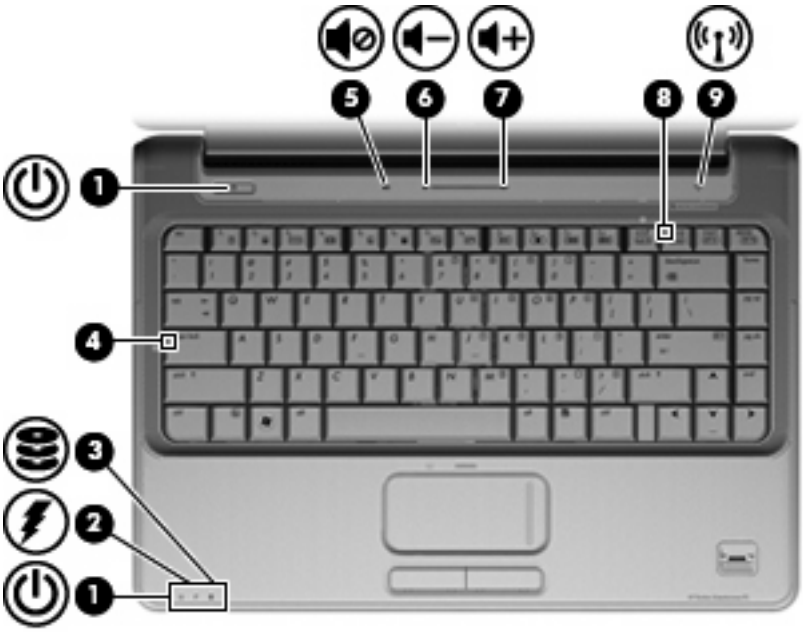
TouchPad

Component		Description
(1)	TouchPad light	• White: TouchPad is enabled. • Amber: TouchPad is disabled.
(2)	TouchPad*	Moves the pointer and selects or activates items on the screen.
(3)	Left TouchPad button*	Functions like the left button on an external mouse.
(4)	TouchPad on/off button	Enables/disables the TouchPad.
(5)	TouchPad vertical scroll zone*	Scrolls up or down.
(6)	Right TouchPad button*	Functions like the right button on an external mouse.

*This table describes factory settings. To view or change pointing device preferences, select **Start > Devices and Printers**. Then, right-click the device representing your computer, and select **Mouse settings**.

Lights

NOTE: Your computer may look slightly different from the illustration in this section.

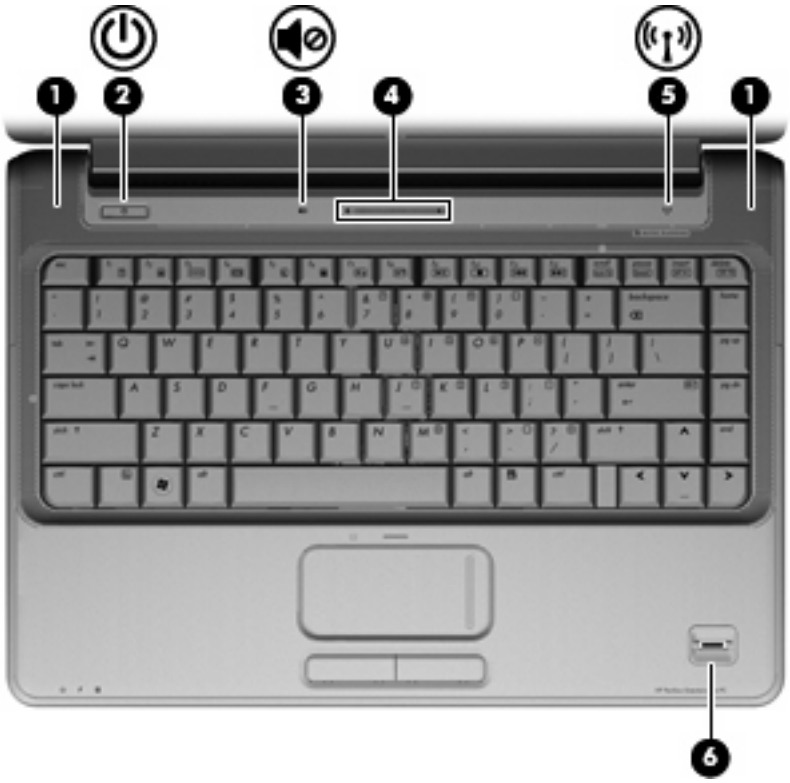


Component		Description
(1)	Power lights (2)*	• On: The computer is on. • Blinking: The computer is in the Sleep state. • Off: The computer is off or in Hibernation.
(2)	Battery light	• On: A battery is charging. • Blinking: A battery that is the only available power source has reached a low battery level or a critical battery level. • 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.
(3)	Drive light	• Blinking: The hard drive or optical drive is being accessed. • On: HP ProtectSmart Hard Drive Protection has temporarily parked the internal hard drive, and if present, the hard drive in the SmartBay.
(4)	Caps lock light	On: Caps lock is on.
(5)	Volume mute light	• White: Computer sound is turned on. • Amber: Computer sound is turned off.
(6)	Volume down light	On: The volume scroll zone is being used to decrease speaker volume.
(7)	Volume up light	On: The volume scroll zone is being used to increase speaker volume.

Component		Description
(8)	Num lock light	On: Num lock is on or the embedded numeric keypad is enabled.
(9)	Wireless light	• Blue: An integrated wireless device, such as a wireless local area network (WLAN) device and/or a Bluetooth® device, is on. • Amber: All wireless devices are off.
*The 2 power lights display the same information. The light on the power button is visible only when the computer is open. The power light on the front of the computer is visible whether the computer is open or closed.		

Buttons, speakers, and fingerprint reader

NOTE: Your computer may look slightly different from the illustration in this section.



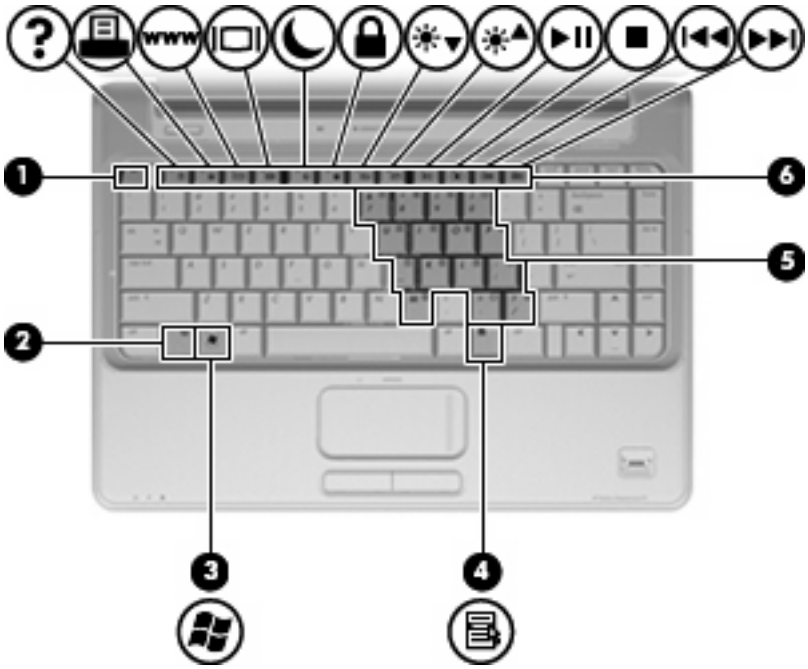
Component		Description
(1)	Speakers (2)	Produce sound.
(2)	Power button*	• When the computer is off, press the button to turn on the computer. • When the computer is on, briefly press the button to initiate Sleep. • When the computer is in the Sleep state, briefly press the button to exit Sleep. • When the computer is in Hibernation, briefly press the button to exit Hibernation. If the computer has stopped responding and Windows® shutdown procedures are ineffective, 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 Security > Power Options**.
(3)	Volume mute button	Mutes and restores speaker sound.
(4)	Volume scroll zone	Adjusts speaker volume. Slide your finger to the left to decrease volume and to the right to increase volume. You can also tap the minus sign on the scroll zone to decrease volume, or tap the plus sign on the scroll zone to increase volume.

Component		Description
(5)	Wireless button	Turns the wireless feature on or off but does not establish a wireless connection. **NOTE:** A wireless network must be set up in order to establish a wireless connection.
(6)	Fingerprint reader (select models only)	Allows a fingerprint logon to Windows, instead of a password logon.

*This table describes factory settings. For information about changing factory settings, refer to the user guides located in Help and Support.

Keys

NOTE: Your computer may look slightly different from the illustration in this section.



Component		Description
(1)	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.
(3)	Windows logo key	Displays the Windows Start menu.
(4)	Windows applications key	Displays a shortcut menu for items beneath the pointer.
(5)	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.

Display

NOTE: Your computer may look slightly different from the illustration in this section.

Component		Description
(1)	Internal display switch	Turns off the display if the display is closed while the computer is turned on.
(2)	Internal digital dual array microphones (2)	Record sound.
(3)	Integrated webcam light	On: The integrated webcam is in use.
(4)	Integrated webcam	Records video and captures still photographs.

Front components

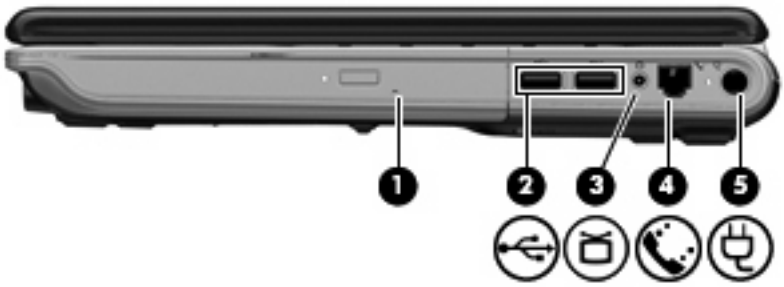
Component		Description
(1)	Power light	• On: The computer is on. • Blinking: The computer is in the Sleep state. • Off: The computer is off or in Hibernation.
(2)	Battery light	• On: A battery is charging. • Blinking: A battery that is the only available power source has reached a low battery level or a critical battery level. • 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.
(3)	Drive light	• Blinking: The hard drive or optical drive is being accessed. • On: HP ProtectSmart Hard Drive Protection has temporarily parked the internal hard drive, and if present, the hard drive in the SmartBay.
(4)	Consumer infrared lens	Receives a signal from the HP Remote Control.
(5)	Audio-in (microphone) jack	Connects an optional computer headset microphone, stereo array microphone, or monaural microphone.
(6)	Audio-out (headphone) jacks (2)	Produce sound when connected to optional powered stereo speakers, headphones, ear buds, a headset, or television audio.

Rear component

Component	Description
Vent	Enables airflow to cool internal components. **NOTE:** 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.

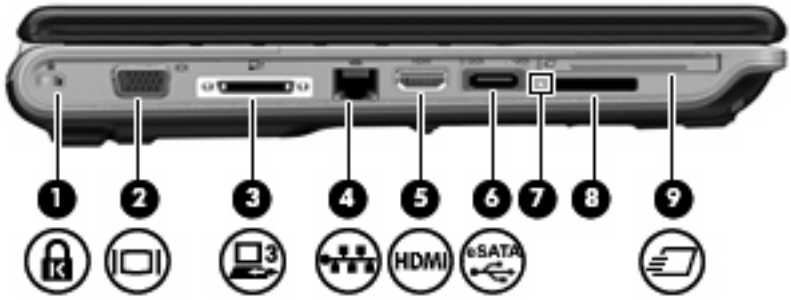
Right-side components

NOTE: Your computer may look slightly different from the illustration in this section.



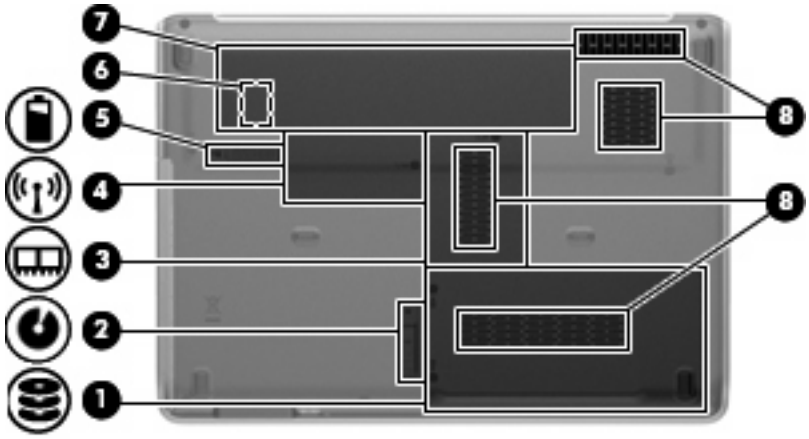
Component		Description
(1)	SmartBay	Supports an optical drive or hard drive.
(2)	USB ports (2)	Connect optional USB devices.
(3)	TV antenna/cable jack (select models only)	Connects a TV antenna, a digital cable device, or a satellite device that receives standard or high-definition TV broadcasts.
(4)	RJ-11 (modem) jack (select models only)	Connects a modem cable.
(5)	Power connector	Connects an AC adapter.

Left-side components



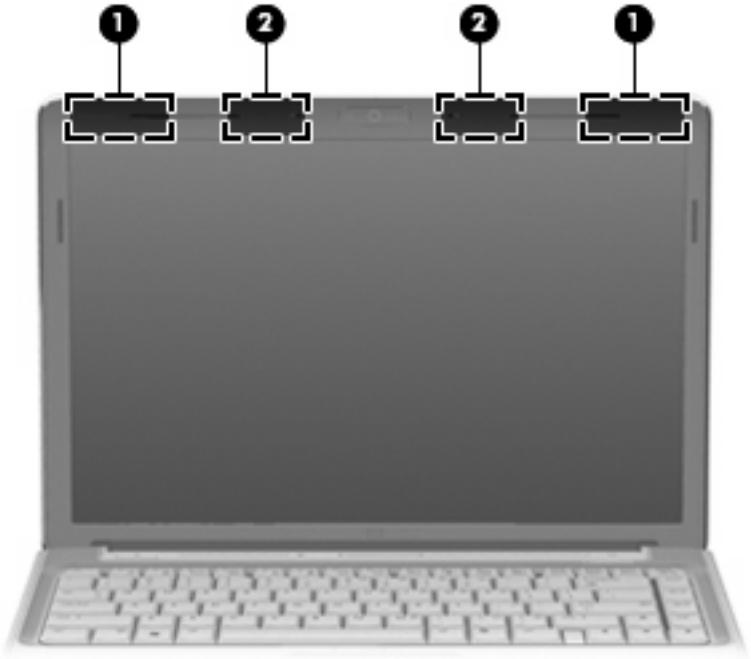
Component		Description
(1)	Security cable slot	Attaches an optional security cable to the computer. **NOTE:** The security cable is designed to act as a deterrent, but it may not prevent the computer from being mishandled or stolen.
(2)	External monitor port	Connects an external VGA monitor or projector.
(3)	Expansion port 3	Connects the computer to an optional docking device or optional expansion product. **NOTE:** The computer has only one expansion port. The term *expansion port 3* describes the type of expansion port.
(4)	RJ-45 (network) jack	Connects a network cable.
(5)	HDMI port	Connects an optional video or audio device, such as a high-definition television, or any compatible digital or audio component.
(6)	eSATA/USB port	Connects high-performance eSATA components, such as an eSATA external hard drive, or connect an optional USB device.
(7)	Digital Media Slot light	On: A digital card is being accessed.
(8)	Digital Media Slot	Supports the following optional digital card formats: • Memory Stick (MS) • Memory Stick Pro (MSP) • MultiMediaCard (MMC) • Secure Digital (SD) Memory Card • xD-Picture Card (XD)
(9)	ExpressCard slot	Supports optional ExpressCard/54 cards.

Bottom components



Component		Description
(1)	Hard drive and WLAN module compartment	Holds the hard drive and the wireless LAN (WLAN) module. **CAUTION:** To prevent an unresponsive system, replace the wireless module only with a wireless module authorized for use in the computer by the governmental agency that regulates wireless devices in your country or region. If you replace the module and then receive a warning message, remove the module to restore computer functionality, and then contact technical support through Help and Support.
(2)	SmartBay release latch	Releases the SmartBay module.
(3)	Memory module compartment	Contains the 2 memory module slots.
(4)	Mini Card compartment	On select models, holds a wireless WAN (WWAN) module and/or the TV tuner card. **CAUTION:** To prevent an unresponsive system, replace the wireless module only with a wireless module authorized for use in the computer by the governmental agency that regulates wireless devices in your country or region. If you replace the module and then receive a warning message, remove the module to restore computer functionality, and then contact technical support through Help and Support.
(5)	Battery release latch	Releases the battery from the battery bay.
(6)	SIM slot (select models only)	Contains a subscriber identity module (SIM). The SIM slot is located inside the battery bay.
(7)	Battery bay	Holds the battery.
(8)	Vents (3)	Enable airflow to cool internal components. **NOTE:** 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.

Wireless antennas



Component		Description
(1)	WWAN antennas (2)*	On select models, send and receive wireless signals to communicate with wireless wide-area networks (WWAN).
(2)	WLAN antennas (2)*	Send and receive wireless signals to communicate with wireless local area networks (WLAN).

*The antennas are not visible from the outside of the computer. For optimal transmission, keep the areas immediately around the antennas free from obstructions.

To see wireless regulatory notices, refer to the section of the *Regulatory, Safety and Environmental Notices* that applies to your country or region. These notices are located in Help and Support.

Additional hardware components

Component		Description
(1)	Power cord*	Connects an AC adapter to an AC outlet.
(2)	AC adapter	Converts AC power to DC power.
(3)	Battery*	Powers the computer when the computer is not plugged into external power.

*Batteries and power cords vary in appearance by region and country.

3 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 important information, including the following:

  - Product name **(1)**. This is the product name affixed to the front of your notebook.
  - Serial number (s/n) **(2)**. This is an alphanumeric identifier that is unique to each product.
  - Part number/Product number (p/n) **(3)**. This number provides specific information about the product's hardware components. The part number helps a service technician to determine what components and parts are needed.
  - Model description **(4)**. This is the alphanumeric identifier used to locate documents, drivers, and support for your notebook.
  - Warranty period **(5)**. This number describes the duration of the warranty period for this computer.

  Have this information available when you contact technical support. 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 inside the battery bay.
- Modem approval label (select models only)—Provides regulatory information about the modem and lists the agency approval markings required by some of the countries or regions in which the modem has been approved for use. You may need this information when traveling internationally. The modem approval label is affixed inside the hard drive bay.
- Wireless certification label(s)—Provide information about optional wireless devices and the approval markings of some of the countries or regions in which the devices have been approved for use. An optional device may be a wireless local area network (WLAN) device, an HP Mobile Broadband Module, or an optional Bluetooth® device. If your computer model includes one or more

wireless devices, one or more certification labels are included with your computer. You may need this information when traveling internationally. Wireless certification labels are affixed inside the Mini Card compartment.

- SIM (subscriber identity module) label (select models only)—Provides the ICCID (Integrated Circuit Card Identifier) of your SIM. This label is located inside the battery bay.

Index

A

AC adapter, identifying 13
antennas 12
applications key, Windows 6
audio-in (microphone) jack, identifying 8
audio-out (headphone) jacks, identifying 8

B

battery bay, identifying 11
battery light, identifying 3, 8
battery release latch, identifying 11
battery, identifying 13
bays
  battery 11, 14
  hard drive 11
Bluetooth label 15
buttons
  power 5
  TouchPad 2
  TouchPad on/off 2
  volume mute 5
  wireless 6

C

caps lock light, identifying 3
Certificate of Authenticity label 14
compartments
  memory module 11
  Mini Card 11
components
  additional hardware 13
  bottom 11
  front 8
  left-side 10
  rear 9
  right-side 9
  top 2
connector, power 9
cord, power 13

D

digital dual array microphones, identifying 7
Digital Media Slot light, identifying 10
Digital Media Slot, identifying 10
display switch, identifying 7
drive light, identifying 3, 8

E

eSATA/USB port, identifying 10
esc key, identifying 6
expansion port, identifying 10
ExpressCard slot, identifying 10
external monitor port, identifying 10

F

fingerprint reader, identifying 6
fn key, identifying 6
function keys, identifying 6

H

hard drive bay, identifying 11
HDMI port, identifying 10
headphone (audio-out) jacks 8

I

infrared lens, identifying 8
integrated webcam light, identifying 7
integrated webcam, identifying 7
internal digital dual array microphones, identifying 7
internal display switch, identifying 7

J

jacks
  audio-in (microphone) 8
  audio-out (headphone) 8
  RJ-11 (modem) 9
  RJ-45 (network 10
  TV antenna/cable 9

K

keypad keys, identifying 6
keys
  esc 6
  fn 6
  function 6
  keypad 6
  Windows applications 6
  Windows logo 6

L

labels
  Bluetooth 15
  Microsoft Certificate of Authenticity 14
  modem approval 14
  regulatory 14
  service tag 14
  SIM 15
  wireless certification 15
  WLAN 15
latch
  battery release 11
  SmartBay release 11
lights
  battery 3, 8
  caps lock 3
  Digital Media Slot 10
  drive 3, 8
  integrated webcam 7
  mute 3
  num lock 4

power 3, 8
TouchPad 2
volume down 3
volume mute 3
volume up 3
wireless 4

M
memory module compartment, identifying 11
microphone (audio-in) jack 8
Microsoft Certificate of Authenticity label 14
Mini Card compartment, identifying 11
modem approval label 14
monitor port, external 10
mute button, identifying 5
mute light, identifying 3

N
num lock light, identifying 4

O
operating system
Microsoft Certificate of Authenticity label 14
Product Key 14

P
ports
eSATA/USB 10
expansion 10
external monitor 10
HDMI 10
USB 9
power button, identifying 5
power connector, identifying 9
power cord, identifying 13
power lights, identifying 3, 8
Product Key 14
product name and number, computer 14

R
regulatory information
modem approval label 14
regulatory label 14
wireless certification labels 15
RJ-11 (modem) jack, identifying 9
RJ-45 (network) jack, identifying 10

S
scrolling regions, TouchPad 2
security cable slot, identifying 10
serial number, computer 14
service tag 14
SIM label 15
SIM slot, identifying 11
slots
Digital Media 10
ExpressCard 10
memory module 11
security cable 10
SIM 11
SmartBay release latch, identifying 11
SmartBay, identifying 9
speakers, identifying 5

T
TouchPad
buttons 2
identifying 2
scrolling regions 2
TouchPad light, identifying 2
TouchPad on/off button 2
traveling with the computer
modem approval label 14
wireless certification labels 15
TV antenna/cable jack, identifying 9

U
USB ports, identifying 9

V
vents, identifying 9, 11
volume down light, identifying 3
volume mute button, identifying 5
volume mute light, identifying 3
volume scroll zone, identifying 5
volume up light, identifying 3

W
webcam, identifying 7
Windows applications key, identifying 6
Windows logo key, identifying 6
wireless antennas 12
wireless button, identifying 6
wireless certification label 15
wireless light, identifying 4
WLAN antennas, identifying 12
WLAN label 15
WLAN module 11, 15
WWAN antennas, identifying 12
WWAN module 11