

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: 539996-002

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 (select models only)	5
Keys	7
Display	8
Front components	9
Rear component	10
Right-side components	10
Left-side components	11
Bottom components	12
Wireless antennas	13
Additional hardware components	14

3 Labels


Index	17
-------------	----

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, check **Device Manager**.

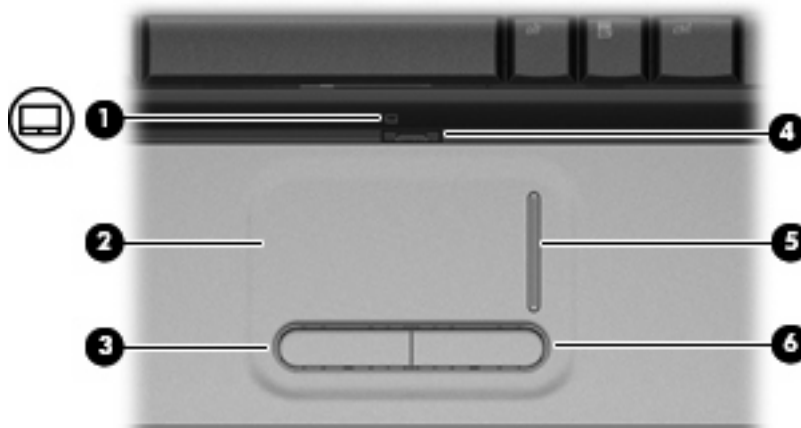
You can also add hardware or modify device configurations using Device Manager.

 **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

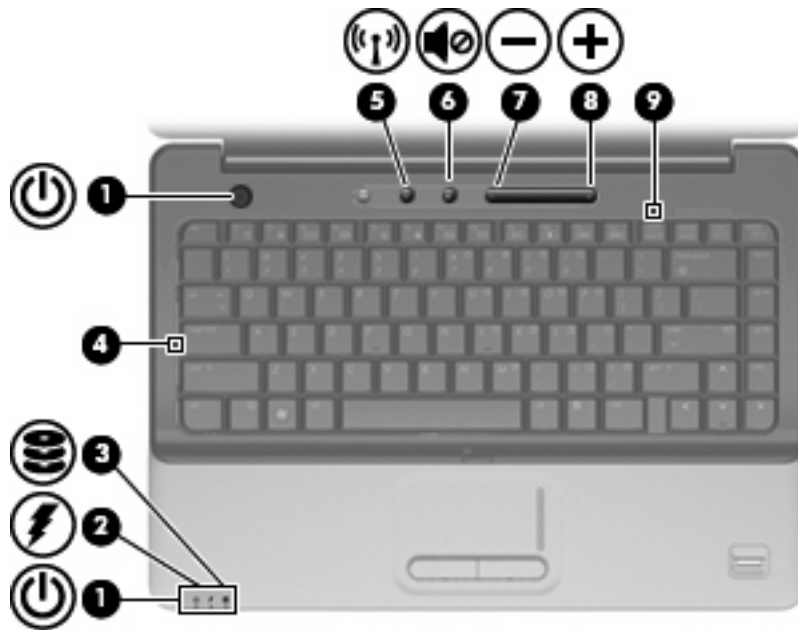
TouchPad



Component	Description
(1) TouchPad light	<ul style="list-style-type: none">• 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 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

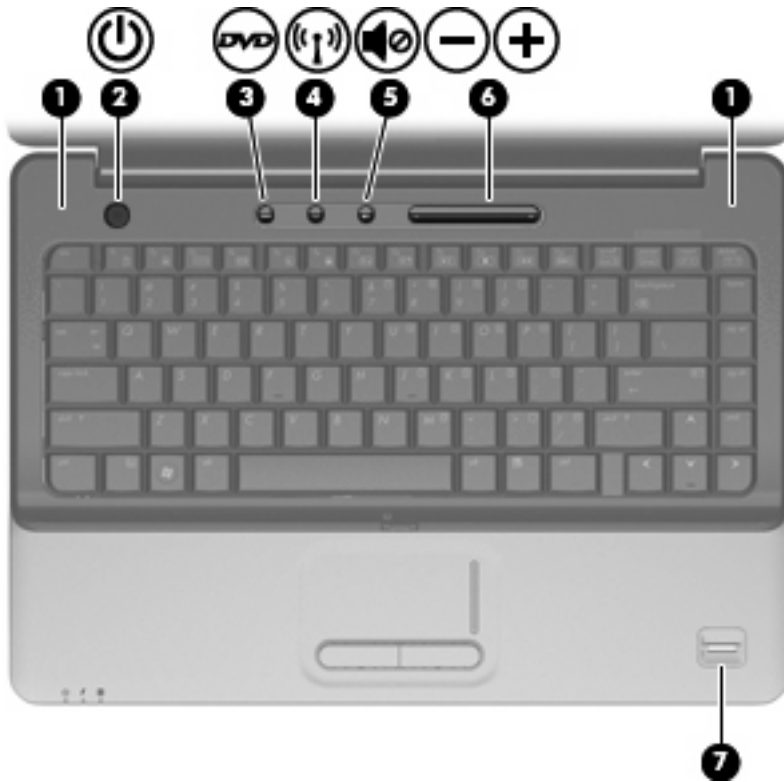


Component	Description
(1) Power lights (2)*	<ul style="list-style-type: none"> On: The computer is on. Blinking: The computer is in the Sleep state. Off: The computer is off or in Hibernation.
(2) Battery light	<ul style="list-style-type: none"> On: A battery is charging. Blinking: A battery that is 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	<ul style="list-style-type: none"> Blinking: The hard drive or optical drive is being accessed. On: HP ProtectSmart Hard Drive Protection (select models only) has temporarily parked the internal hard drive.
(4) Caps lock light	On: Caps lock is on.
(5) Wireless light	<ul style="list-style-type: none"> 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.
(6) Volume mute light (select models only)	<ul style="list-style-type: none"> White: Computer sound is turned on. Amber: Computer sound is turned off.
(7) Volume down light (select models only)	On: The volume scroll zone is being used to decrease speaker volume.

Component	Description
(8) Volume up light (select models only)	On: The volume scroll zone is being used to increase speaker volume.
(9) Num lock light	On: Num lock is on or the embedded numeric keypad is enabled.

*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 (select models only)

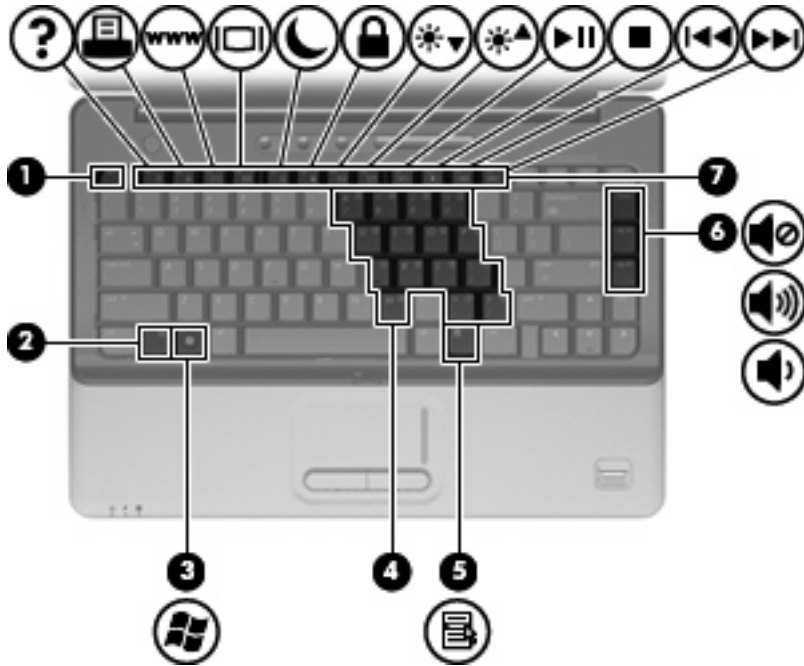


Component	Description
(1) Speakers (2)	Produce sound.
(2) Power button*	<ul style="list-style-type: none"> • When the computer is off, press the button to turn on the computer. • When the computer is on, briefly press the button to initiate Sleep. • When the computer is in the Sleep state, briefly press the button to exit Sleep. • When the computer is in Hibernation, briefly press the button to exit Hibernation. <p>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.</p> <p>To learn more about your power settings, select Start > Control Panel > System and Security > Power Options.</p>
(3) DVD button (select models only)	<p>Launches the DVD Play program.</p> <p>NOTE: If the computer has been set up to require a logon password, you may be asked to log on to Windows. DVD Play launches after you log on. Refer to the DVD Play software Help for more information.</p>
(4) Wireless button	Turns the wireless feature on or off but does not establish a wireless connection.

Component	Description
	NOTE: A wireless network must be set up in order to establish a wireless connection.
(5) Volume mute button (select models only)	Mutes and restores speaker sound.
(6) Volume scroll zone (select models only)	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.
(7) 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) Embedded numeric keypad keys	Can be used like the keys on an external numeric keypad.
(5) Windows applications key	Displays a shortcut menu for items beneath the pointer.
(6) Navigation keys (home, pg up, pg down)	Execute volume mute, volume up, or volume down when pressed in combination with the fn key.
(7) 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 microphones (2)	Record sound. NOTE: Depending on your computer model, the computer may have 1 or 2 internal microphones.
(3) Integrated webcam light (select models only)	On: The integrated webcam is in use.
(4) Integrated webcam (select models only)	Records video and captures still photographs.

Front components

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




Component	Description
(1) Power light	<ul style="list-style-type: none">On: The computer is on.Blinking: The computer is in the Sleep state.Off: The computer is off or in Hibernation.
(2) Battery light	<ul style="list-style-type: none">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	<ul style="list-style-type: none">Blinking: The hard drive or optical drive is being accessed.On: HP ProtectSmart Hard Drive Protection (select models only) has temporarily parked the internal hard drive.
(4) Consumer infrared lens (select models only)	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) jack	Produces sound when connected to optional powered stereo speakers, headphones, ear buds, a headset, or television audio.

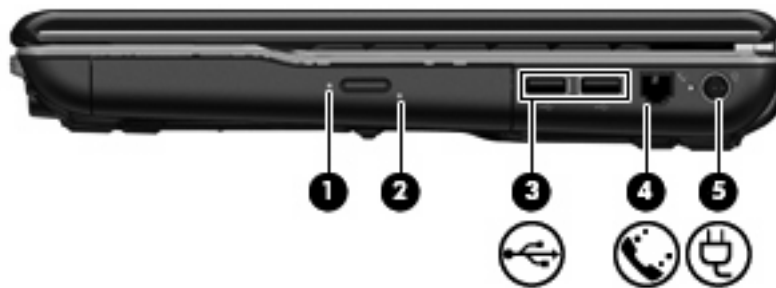
Rear component



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

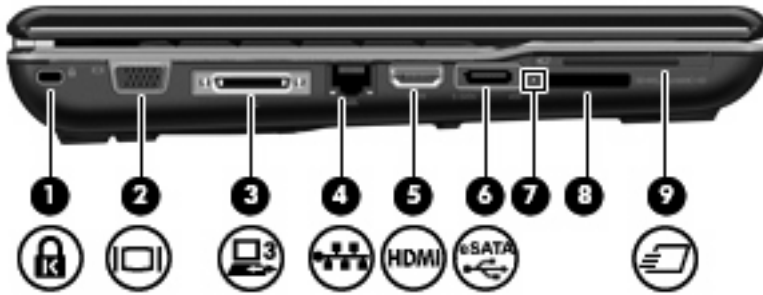
 **NOTE:** Your computer may look slightly different from the illustration in this section.



Component	Description
(1) Optical drive light	Blinking: The optical drive is being accessed.
(2) Optical drive	Reads optical discs and, on select models, also writes to optical discs.
(3) USB ports (2)	Connect optional USB devices.
(4) RJ-11 (modem) jack (select models only)	Connects a modem cable.
(5) Power connector	Connects an AC adapter.

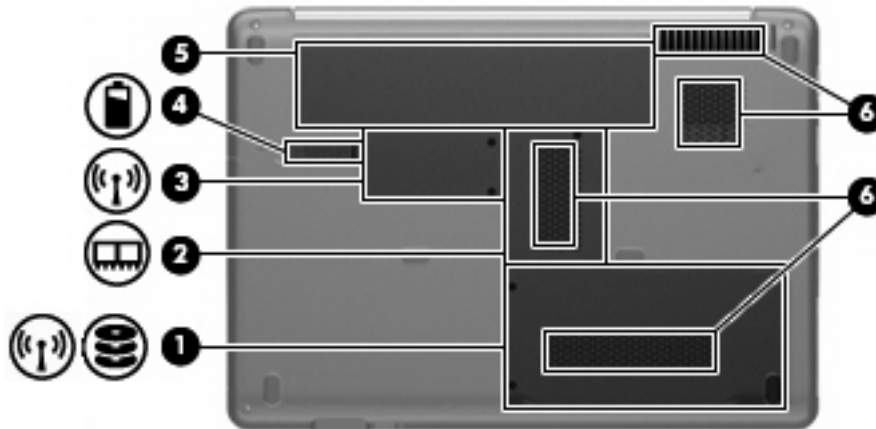
Left-side components

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



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 (select models only)	Connects the computer to an optional docking device or optional expansion product. NOTE: The computer has only one expansion port. The term <i>expansion port 3</i> 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 (select models only)	Connects high-performance eSATA components, such as an eSATA external hard drive, or connects an optional USB device. NOTE: Depending on your computer model, the computer may include a USB port only.
(7) Digital Media Slot light	On: A digital card is being accessed.
(8) Digital Media Slot	Supports the following optional digital card formats: <ul style="list-style-type: none"> • Memory Stick (MS) • Memory Stick Pro (MSP) • MultiMediaCard (MMC) • Secure Digital (SD) Memory Card • xD-Picture Card (XD)
(9) ExpressCard slot (select models only)	Supports optional ExpressCards.

Bottom components




Component	Description
(1) Hard drive and WLAN module compartment	<p>Holds the hard drive and, on select models, the wireless LAN (WLAN) device.</p> <p>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.</p>
(2) Memory module compartment	Contains the 2 memory module slots.
(3) Mini Card compartment	Holds the real-time clock (RTC) battery and, on select models, the WLAN device.
(4) Battery release latch	Releases the battery from the battery bay.
(5) Battery bay	Holds the battery.
(6) Vents (4)	<p>Enable airflow to cool internal components.</p> <p>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.</p>

Wireless antennas

At least 2 antennas send and receive signals from one or more wireless devices. These antennas are not visible from the outside of the computer.



 **NOTE:** For optimal transmission, keep the areas immediately around the antennas free from obstructions.

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

Additional hardware components



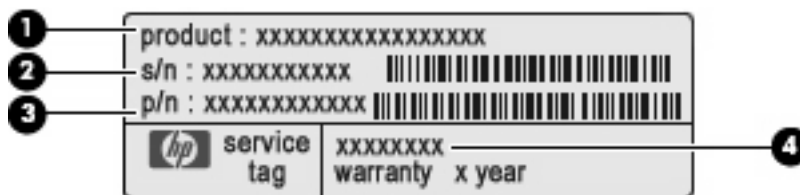
Component	Description
(1) Power cord*	Connects an AC adapter to an AC outlet.
(2) AC adapter	Converts AC power to DC power.
(3) Battery*	Powers the computer when the computer is not plugged into external power.

*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 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.

Index

A

AC adapter, identifying 14
applications key, Windows 7
audio-in (microphone) jack,
identifying 9
audio-out (headphone) jack,
identifying 9

B

battery bay, identifying 12
battery light, identifying 3, 9
battery release latch,
identifying 12
battery, identifying 14
bays
 battery 12, 15
 hard drive 12
Bluetooth label 16
buttons
 DVD 5
 power 5
 TouchPad 2
 TouchPad on/off 2
 volume mute 6
 wireless 5

C

caps lock light, identifying 3
Certificate of Authenticity label 15
compartments
 memory module 12
 Mini Card 12
components
 additional hardware 14
 bottom 12
 front 9
 left-side 11
 rear 10
 right-side 10
 top 2

connector, power 10
cord, power 14

D

Digital Media Slot light,
identifying 11
Digital Media Slot, identifying 11
display switch, identifying 8
drive light, identifying 3, 9
DVD button, identifying 5

E

eSATA/USB port, identifying 11
esc key, identifying 7
expansion port, identifying 11
ExpressCard slot, identifying 11
external monitor port,
identifying 11

F

fingerprint reader, identifying 6
fn key, identifying 7
function keys, identifying 7

H

hard drive bay, identifying 12
HDMI port, identifying 11
headphone (audio-out) jack 9

I

infrared lens, identifying 9
integrated webcam light,
identifying 8
integrated webcam, identifying 8
internal display switch,
identifying 8
internal microphones,
identifying 8

J

jacks
 audio-in (microphone) 9
 audio-out (headphone) 9
 RJ-11 (modem) 10
 RJ-45 (network) 11

K

keypad keys, identifying 7
keys
 esc 7
 fn 7
 function 7
 keypad 7
 navigation 7
 Windows applications 7
 Windows logo 7

L

labels
 Bluetooth 16
 Microsoft Certificate of
 Authenticity 15
 modem approval 15
 regulatory 15
 service tag 15
 wireless certification 16
 WLAN 16
latch, battery release 12
lights
 battery 3, 9
 caps lock 3
 Digital Media Slot 11
 drive 3, 9
 mute 3
 num lock 4
 optical drive 10
 power 3, 9
 TouchPad 2
 volume down 3

- volume mute 3
- volume up 4
- webcam 8
- wireless 3

M

- memory module compartment, identifying 12
- microphone (audio-in) jack 9
- Microsoft Certificate of Authenticity label 15
- Mini Card compartment, identifying 12
- modem approval label 15
- monitor port, external 11
- mute button, identifying 6
- mute light, identifying 3

N

- navigation keys, identifying 7
- num lock light, identifying 4

O

- operating system
 - Microsoft Certificate of Authenticity label 15
 - Product Key 15
- optical drive light, identifying 10
- optical drive, identifying 10

P

- ports
 - eSATA/USB 11
 - expansion 11
 - external monitor 11
 - HDMI 11
 - USB 10
- power button, identifying 5
- power connector, identifying 10
- power cord, identifying 14
- power lights, identifying 3, 9
- Product Key 15
- product name and number, computer 15

R

- regulatory information
 - modem approval label 15
 - regulatory label 15
 - wireless certification labels 16

- RJ-11 (modem) jack, identifying 10
- RJ-45 (network) jack, identifying 11

S

- scrolling regions, TouchPad 2
- security cable slot, identifying 11
- serial number, computer 15
- service tag 15
- slots
 - Digital Media 11
 - ExpressCard 11
 - memory module 12
 - security cable 11
- 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 15
 - wireless certification labels 16

U

- USB ports, identifying 10

V

- vents, identifying 10, 12
- volume down light, identifying 3
- volume mute button, identifying 6
- volume mute light, identifying 3
- volume scroll zone, identifying 6
- volume up light, identifying 4

W

- webcam light, identifying 8
- webcam, identifying 8
- Windows applications key, identifying 7
- Windows logo key, identifying 7
- wireless button, identifying 5
- wireless certification label 16
- wireless light, identifying 3
- WLAN device 13, 16
- WLAN label 16

