Notebook Tour
User Guide

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First Edition: July 2007

Document Part Number: 440782-001

Product notice

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

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1 Identifying hardware

To see a list of hardware installed in the computer, follow these steps:

1. Select **Start > Computer > System properties**.
2. In the left pane, 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 online Help for more information.

2 Components

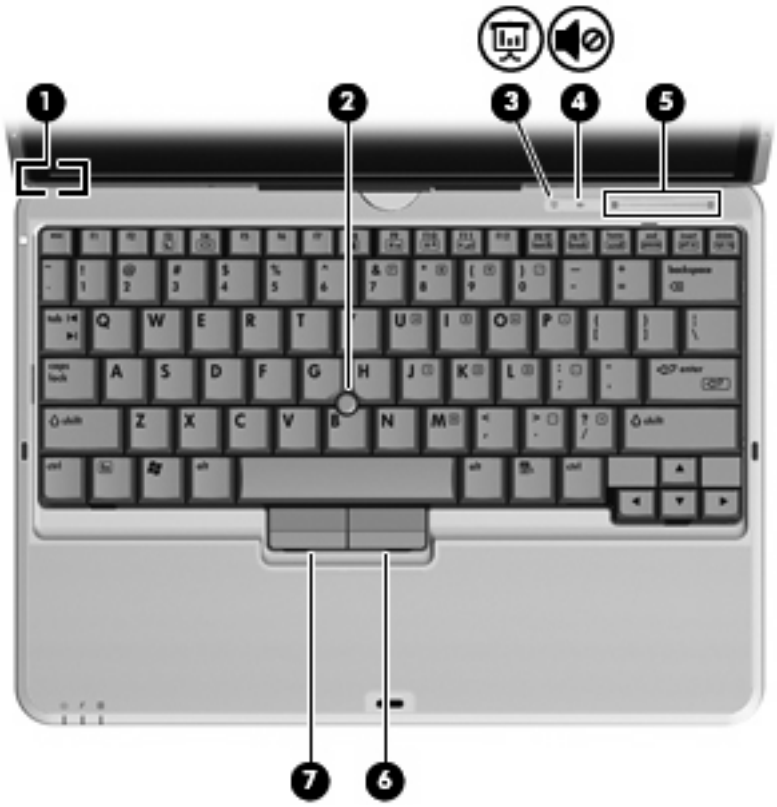
Top components

Lights

Component		Description
(1)	Power light	• 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)	Battery light	• Amber: A battery is charging. • Green: A battery is close to full charge capacity. • Blinking amber: A battery 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 turns off when all batteries in the computer are fully charged. If the computer is not plugged into an external power

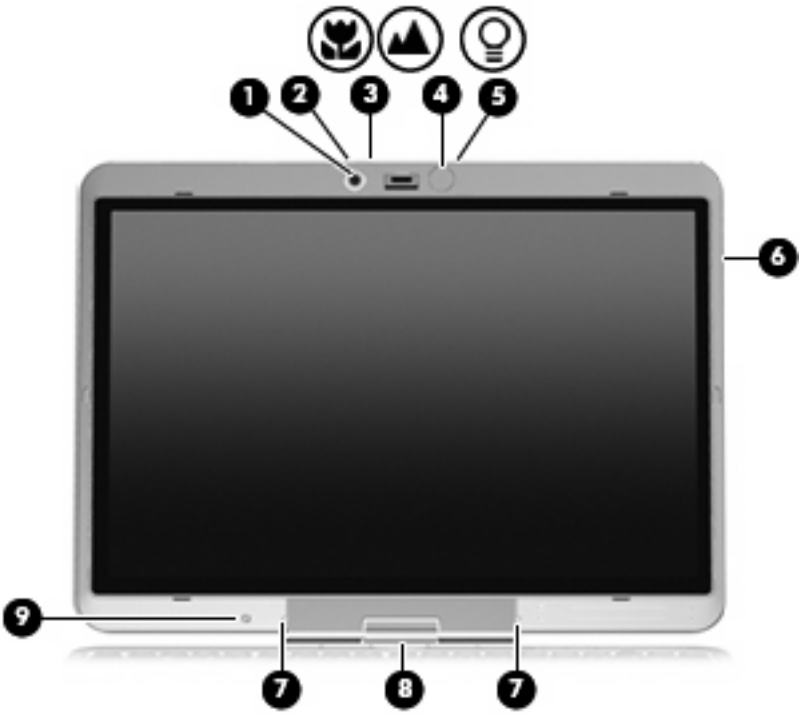
Component		Description
		source, the light stays off until the battery reaches a low battery level.
(3)	Drive light	• Blinking green: The hard drive is being accessed. • Amber: HP 3D DriveGuard has temporarily parked the internal hard drive.
(4)	Caps lock light	On: Caps lock is on.
(5)	Volume mute light	• Off: Computer sound is on. • On: Computer sound is off.
(6)	Volume down light	Blinking: The volume scroll zone is being used to decrease speaker volume.
(7)	Volume up light	Blinking: The volume scroll zone is being used to increase speaker volume.
(8)	Num lock light	On: Num lock is on or the embedded numeric keypad is enabled.

Buttons, switches, and pointing devices



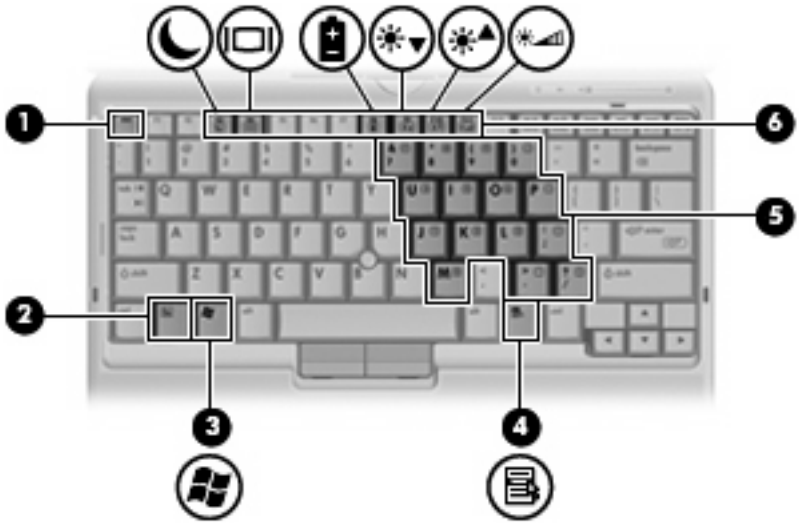
Component		Description
(1)	Internal display switch	Turns off the display if the display is closed while the power is on.
(2)	Pointing stick	Moves the pointer and selects or activates items on the screen.
(3)	Presentation button	Starts the presentation feature.
(4)	Volume mute button	Mutes and restores speaker sound.
(5)	Volume scroll zone	Adjusts speaker volume: • To decrease volume, slide your finger across the volume scroll zone from right to left. You can also tap or press the left half of the volume scroll zone. • To increase volume, slide your finger across the volume scroll zone from left to right. You can also tap or press the right half of the volume scroll zone.
(6)	Right pointing stick button	Functions like the right button on an external mouse.
(7)	Left pointing stick button	Functions like the left button on an external mouse.

Display components



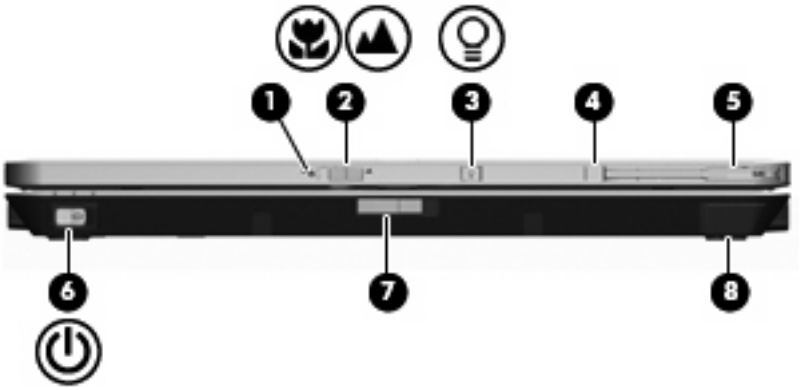
Component		Description
(1)	Integrated camera (select models only)	Records video, captures still photographs, and transmits streaming video for video conferencing.
(2)	Camera light (select models only)	On: The camera is recording or streaming video or capturing a still photograph.
(3)	Camera mode switch	• To use macro mode, slide the switch to the left. Macro mode uses a focal length of approximately 10 cm for capturing close-up images. • To use normal mode, slide the switch to the right. Normal mode uses a focal length of approximately 50 cm for capturing images within a standard range of distance from the camera.
(4)	Keyboard light	Illuminates the keyboard in low-light conditions when the keyboard light button is pressed.
(5)	Keyboard light button	Opens and turns on the keyboard light.
(6)	HP Fingerprint Sensor (fingerprint reader)	Allows a fingerprint logon to Windows instead of a password logon.
(7)	Internal microphones (2)	Record sound and transmit sound for video conferencing.
(8)	Convertible hinge	Swivels the display and converts the computer from traditional notebook mode into tablet mode or vice versa.
(9)	Ambient light sensor	Automatically adjusts the display brightness based on the lighting conditions in your environment.

Keys



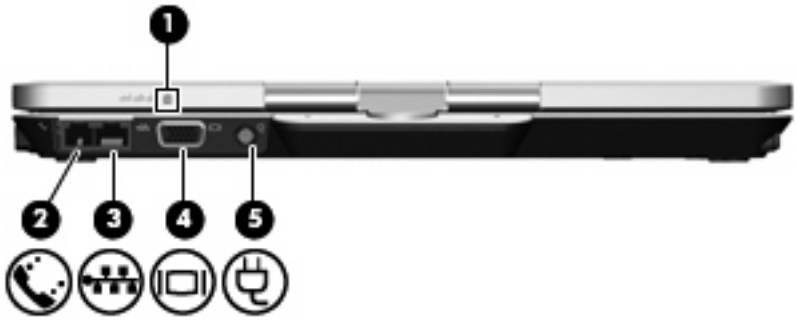
Component		Description
(1)	esc key	Displays system information when pressed in combination with the fn key.
(2)	fn key	Executes frequently used system functions when pressed in combination with a function key or the esc key.
(3)	Windows logo key	Displays the Windows Start menu.
(4)	Windows applications 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.

Front components



Component		Description
(1)	Camera light (select models only)	On: The camera is recording or streaming video or capturing a still photograph.
(2)	Camera mode switch	• To use macro mode, slide the switch to the left. Macro mode uses a focal length of approximately 10 cm for capturing close-up images. • To use normal mode, slide the switch to the right. Normal mode uses a focal length of approximately 50 cm for capturing images within a standard range of distance from the camera.
(3)	Keyboard light button	Opens and turns on the keyboard light.
(4)	External WWAN antenna button	Opens the external WWAN antenna.
(5)	External WWAN antenna	Sends and receives wireless signals to communicate with wireless wide area networks (WWAN).
(6)	Power switch	• When the computer is off, slide the switch to the right to turn on the computer. • When the computer is on, slide the switch to the right to shut down the computer. • When the computer is in the Sleep state, slide the switch to the right briefly to exit Sleep. • When the computer is in Hibernation, slide the switch to the right briefly to exit Hibernation. If the computer has stopped responding and Windows® shutdown procedures are ineffective, slide the switch to the right and hold 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**.
(7)	Display release latch	Opens the computer.
(8)	Bluetooth® compartment	Contains an optional Bluetooth device.

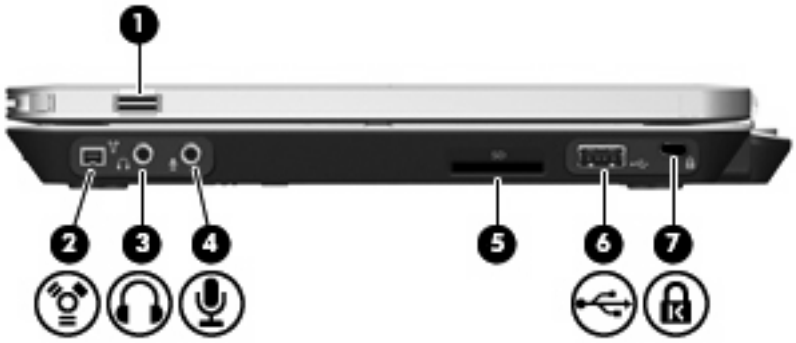
Rear components



Component		Description
(1)	Windows security button*	• While Windows is running, press the button with the pen to enter the ctrl+alt+delete command. • While the Computer Setup utility is running, press the button with the pen to enter the reset command. The computer resets and all unsaved information is lost. The reset function can be used to restore functionality when the system has become unresponsive.
(2)	RJ-11 (modem) jack	Connects a modem cable.
(3)	RJ-45 (network) jack	Connects a network cable.
(4)	External monitor port	Connects an external VGA monitor or projector.
(5)	Power connector	Connects an AC adapter.

*To protect your work and the system, the ctrl+alt+delete command cannot be entered using the ctrl, alt, and del keys on the on-screen keyboard.

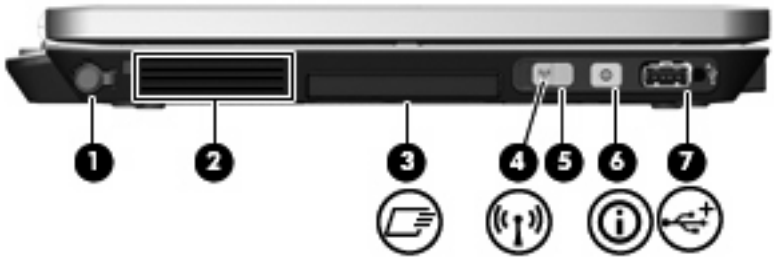
Right-side components



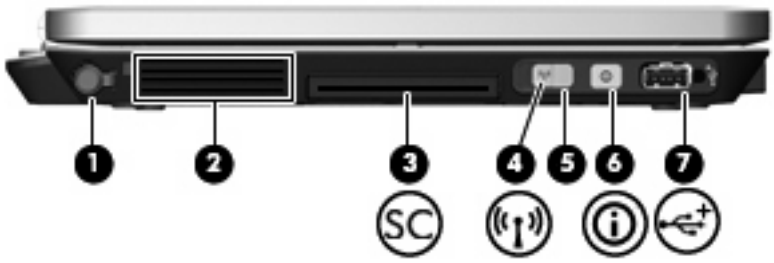
Component		Description
(1)	HP Fingerprint Sensor (fingerprint reader)	Allows a fingerprint logon to Windows instead of a password logon.
(2)	1394 port	Connects an optional IEEE 1394 or 1394a device, such as a camcorder.
(3)	Audio-out (headphone) jack	Produces sound when connected to optional powered stereo speakers, headphones, ear buds, a headset, or television audio.
(4)	Audio-in (microphone) jack	Connects an optional computer headset microphone, stereo array microphone, or monaural microphone.
(5)	Media Card Reader	Supports the following optional digital card formats: Secure Digital (SD) Memory Card and MultiMediaCard (MMC).
(6)	USB port	Connects an optional USB device.
(7)	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.

Left-side components

NOTE: Refer to the illustration that most closely matches your computer.

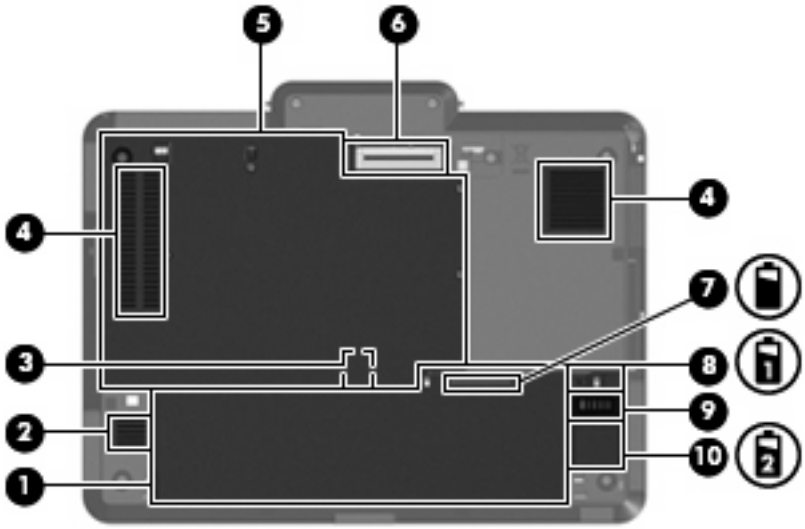


Component		Description
(1)	Pen slot	Stores the pen.
(2)	Vent	Enables airflow to cool internal components. **WARNING!** To reduce the possibility of heat-related injuries or of overheating the computer, do not place the computer directly on your lap or obstruct the computer air vents. Use the computer 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). **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.
(3)	ExpressCard slot (select models only)	Supports optional ExpressCards.
(4)	Wireless light	• Blue: An integrated wireless device, such as a wireless local area network (WLAN) device, the HP Broadband Wireless Module, and/or a Bluetooth device, is on. • Amber: All wireless devices are off.
(5)	Wireless switch	Turns the wireless feature on or off, but does not create a wireless connection. **NOTE:** A wireless network must be set up in order to establish a wireless connection.
(6)	Info button	Launches Info Center, which enables you to open various software solutions.
(7)	Powered USB port	Provides power to a USB device, such as an optional external MultiBay, if used with a powered USB cable.



Component		Description
(1)	Pen slot	Stores the pen.
(2)	Vent	Enables airflow to cool internal components. **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). **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.
(3)	Smart card reader (select models only)	Supports smart cards and Java™ cards.
(4)	Wireless light	• Blue: An integrated wireless device, such as a wireless local area network (WLAN) device, the HP Broadband Wireless Module, and/or a Bluetooth device, is on. • Amber: All wireless devices are off.
(5)	Wireless switch	Turns the wireless feature on or off, but does not create a wireless connection. **NOTE:** A wireless network must be set up in order to establish a wireless connection.
(6)	Info button	Launches Info Center, which enables you to open various software solutions.
(7)	Powered USB port	Provides power to a USB device, such as an optional external MultiBay, if used with a powered USB cable.

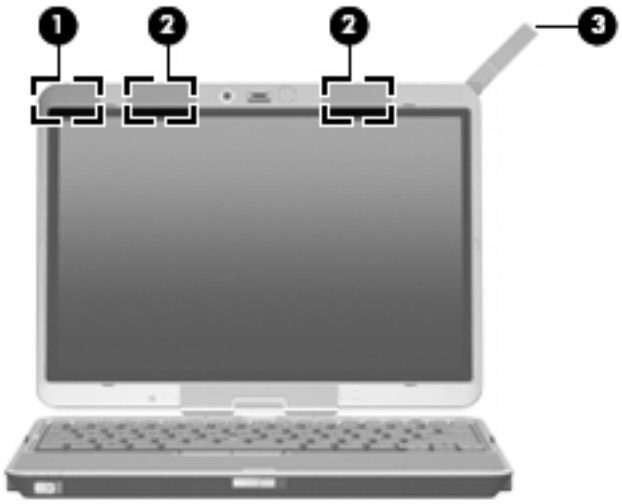
Bottom components



Component		Description
(1)	Battery bay	Holds the battery.
(2)	Speaker	Produces sound.
(3)	SIM slot	Contains a subscriber identity module (SIM). The SIM slot is located inside the battery bay.
(4)	Vents (2)	Enable airflow to cool internal components. **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). **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.
(5)	Hard drive compartment	Holds the hard drive, memory module slots, WLAN module (select models only) and WWAN module (select models only).
(6)	Docking connector	Connects an optional docking device.
(7)	Charge level indicator	Displays the approximate remaining battery charge.
(8)	Battery release latch	Releases the battery from the battery bay.
(9)	Accessory battery connector	Connects an optional accessory battery.
(10)	Accessory battery connector door	Slides open to expose the accessory battery connector.

Wireless antennae

On select computer models, wireless antennae send and receive signals from one or more wireless devices. These antennae are not visible from the outside of the computer.



Component		Description
(1)	WWAN antenna*	Sends and receives wireless signals to communicate with wireless wide area networks (WWAN).
(2)	WLAN antennae (2)*	Send and receive wireless signals to communicate with wireless local area networks (WLAN).
(3)	External WWAN antenna	Sends and receives wireless signals to communicate with wireless wide area networks (WWAN).

*The 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 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)	Battery*	Powers the computer when the computer is not plugged into external power.
(2)	AC adapter	Converts AC power to DC power.
(3)	Power cord*	Connects an AC adapter to an AC outlet.
(4)	Modem cable (select models only)*	Connects the internal modem to an RJ-11 telephone jack or to a country-specific modem cable adapter.
(5)	Country-specific modem cable adapter (select models only)*	Adapts the modem cable to a non-RJ-11 telephone jack.
*Modem cables, 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 the product brand and series name, serial number (s/n), and product number (p/n) of your 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—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 inside the battery bay.
- Wireless certification label(s) (select models only)—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 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 battery bay and the hard drive bay.
- 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.
- HP Broadband Wireless Module serial number label (select models only)—Provides the serial number of your HP Broadband Wireless Module. This label is located inside the battery bay.

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