

# Notebook Tour

## User Guide

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#### **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

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- ⚠ **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).
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## 3 Labels

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# 1 Identifying hardware

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

1. Select **Start > My Computer**.
2. In the left pane of the System Tasks window, select **View system information**.
3. Select **Hardware** tab > **Device Manager**.

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

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## 2 Components



# Top components

## Pointing devices



| Component |                              | Description   |
|-----------|------------------------------|---|
| (1)       | Left TouchPad button*        | Functions like the left button on an external mouse.            |
| (2)       | TouchPad*                    | Moves the pointer and selects or activates items on the screen. |
| (3)       | Left pointing stick button*  | Functions like the left button on an external mouse.            |
| (4)       | Pointing stick*              | Moves the pointer and selects or activates items on the screen. |
| (5)       | TouchPad on/off button       | Turns the TouchPad on and off.                                  |
| (6)       | Right pointing stick button* | Functions like the right button on an external mouse.           |
| (7)       | TouchPad scroll zone         | Scrolls up or down.   |
| (8)       | 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 > Control Panel > Printers and Other Hardware > Mouse**.

## Lights



| Component                 | Description  |
|---------------------------|--|
| (1) Power lights (2)*     | <ul style="list-style-type: none"> <li>On: The computer is on.</li> <li>Blinking: The computer is in Standby.</li> <li>Off: The computer is off or in Hibernation.</li> </ul>  |
| (2) Wireless lights (2)†  | <ul style="list-style-type: none"> <li>Blue: An integrated wireless device, such as a wireless local area network (WLAN) device, the HP Mobile Broadband Module, and/or a Bluetooth® device, is on.</li> <li>Amber: All wireless devices are off.</li> </ul>                 |
| (3) TouchPad on/off light | <ul style="list-style-type: none"> <li>Turquoise: TouchPad is on.</li> <li>Amber: TouchPad is off.</li> </ul>  |
| (4) Caps lock light       | On: Caps lock is on.   |
| (5) Num lock light        | On: Num lock is on or the embedded numeric keypad is enabled.  |
| (6) Volume mute light     | <ul style="list-style-type: none"> <li>Turquoise: Speaker sound is on.</li> <li>Amber: Speaker sound is off.</li> </ul>  |
| (7) Battery light         | <ul style="list-style-type: none"> <li>Amber: A battery is charging.</li> <li>Turquoise: A battery is close to full charge capacity.</li> <li>Blinking amber: A battery that is the only available power source has reached a low battery level. When the battery</li> </ul> |

| Component  | Description   |
|--|---|
|  | <p>reaches a critical battery level, the battery light begins blinking rapidly.</p> <ul style="list-style-type: none"> <li>• 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 source, the light stays off until the battery reaches a low battery level.</li> </ul> |
| (8) Drive light  | <ul style="list-style-type: none"> <li>• Blinking turquoise: The hard drive or optical drive is being accessed.</li> <li>• Amber: HP 3D DriveGuard has temporarily parked the internal hard drive.</li> </ul>   |
| <p>*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.</p> <p>†The 2 wireless lights display the same information. The light on the wireless button is visible only when the computer is open. The wireless light on the front of the computer is visible whether the computer is open or closed.</p> |   |

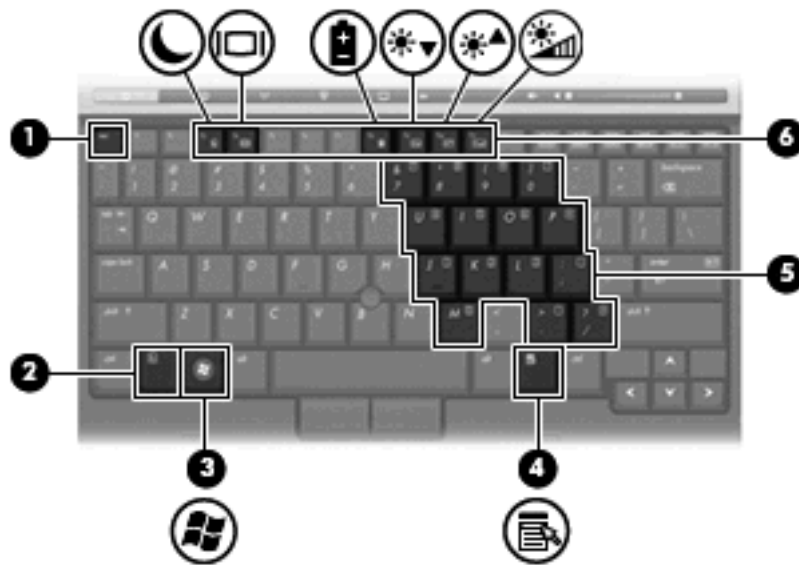
## Buttons, switches, and fingerprint reader



| Component                   | Description   |
|-----------------------------|---|
| (1) Power button            | <ul style="list-style-type: none"><li>When the computer is off, press the button to turn on the computer.</li><li>When the computer is on, press the button to shut down the computer.</li><li>When the computer is in Standby, press the button briefly to exit Standby.</li><li>When the computer is in Hibernation, press the button briefly to exit Hibernation.</li></ul> <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 <b>Start &gt; Control Panel &gt; Performance and Maintenance &gt; Power Options</b>.</p> |
| (2) Info button             | Launches Info Center, which enables you to open various software solutions.   |
| (3) Internal display switch | Turns off the display if the display is closed while the power is on.   |
| (4) Wireless button         | <p>Turns the wireless feature on or off but does not establish a wireless connection.</p> <p><b>NOTE:</b> A wireless network must be set up in order to establish a wireless connection.</p>  |
| (5) Presentation button     | Starts the presentation feature.  |

| Component |                        | Description  |
|-----------|------------------------|--|
| (6)       | TouchPad on/off button | Turns the TouchPad on or off.  |
| (7)       | Volume mute button     | Mutes and restores speaker sound.  |
| (8)       | 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 press and hold the minus (–) sign to decrease volume, or press and hold the plus (+) sign to increase volume. |
| (9)       | Fingerprint reader     | Allows a fingerprint logon to Windows, instead of a password logon.  |

## Keys



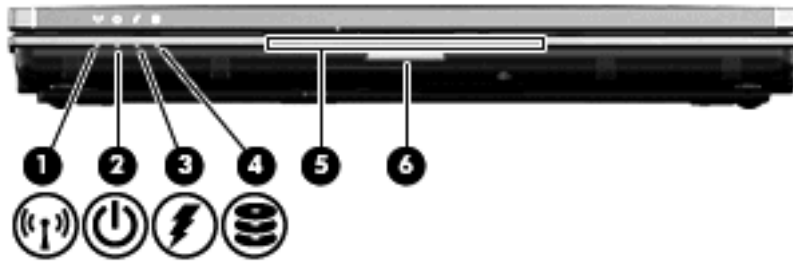
| Component                        | Description  |
|----------------------------------|--|
| (1) <code>esc</code> key         | Displays system information when pressed in combination with the <code>fn</code> key.                                  |
| (2) <code>fn</code> key          | Executes frequently used system functions when pressed in combination with a function key or the <code>esc</code> 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 <code>fn</code> key.                     |

# Display



| Component |                                   | Description   |
|-----------|-----------------------------------|---|
| (1)       | Ambient light sensor              | Automatically adjusts the display brightness based on the lighting conditions in your environment.  |
| (2)       | Webcam light (select models only) | On: The integrated camera is in use.  |
| (3)       | Webcam (select models only)       | Records audio and video and captures still photographs.   |
| (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)       | Internal microphone               | Records sound.<br><br><b>NOTE:</b> The internal microphone makes use of dual array technology, which provides speech enhancement and suppresses surrounding noises. |

## Front components



| Component |                        | Description   |
|-----------|------------------------|---|
| (1)       | Wireless light         | <ul style="list-style-type: none"><li>• Blue: An integrated wireless device, such as a wireless local area network (WLAN) device, the HP Mobile Broadband Module, and/or a Bluetooth device, is on.</li><li>• Amber: All wireless devices are off.</li></ul>  |
| (2)       | Power light            | <ul style="list-style-type: none"><li>• On: The computer is on.</li><li>• Blinking: The computer is in Standby.</li><li>• Off: The computer is off or in Hibernation.</li></ul>   |
| (3)       | Battery light          | <ul style="list-style-type: none"><li>• Amber: A battery is charging.</li><li>• Turquoise: A battery is close to full charge capacity.</li><li>• 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.</li><li>• 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 source, the light stays off until the battery reaches a low battery level.</li></ul> |
| (4)       | Drive light            | <ul style="list-style-type: none"><li>• Turquoise: The hard drive or optical drive is being accessed.</li><li>• Amber: HP 3D DriveGuard has temporarily parked the hard drive.</li></ul>  |
| (5)       | Business card slot     | Holds a business card in position so that the webcam can capture the information on the card.   |
| (6)       | Display release button | Opens the computer.   |




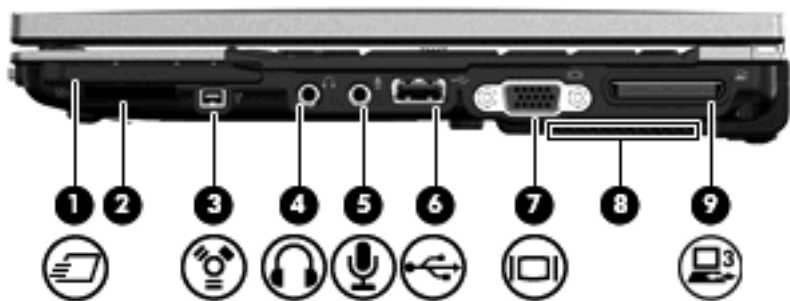
# Rear components



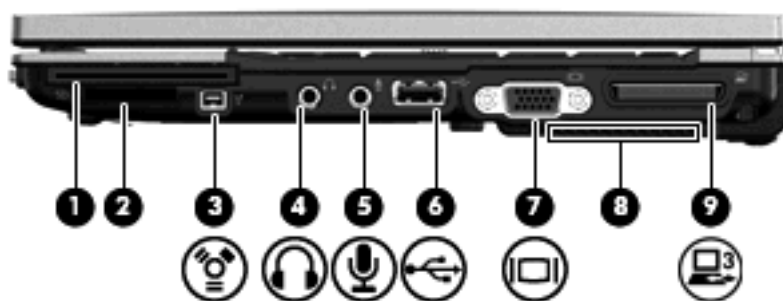
| Component |                      | Description   |
|-----------|----------------------|---|
| (1)       | RJ-45 (network) jack | Connects a network cable.   |
| (2)       | Security cable slot  | Attaches an optional security cable to the computer.<br><br><b>NOTE:</b> The security cable is designed to act as a deterrent, but it may not prevent the computer from being mishandled or stolen. |

# Right-side components

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




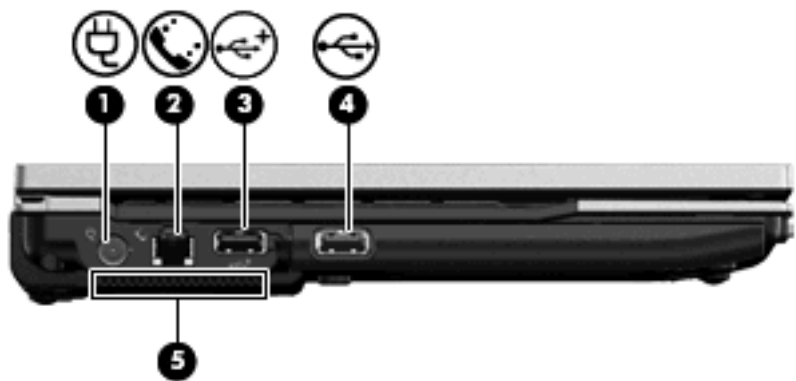
| Component |                            | Description   |
|-----------|----------------------------|---|
| (1)       | ExpressCard slot           | Supports optional ExpressCards.   |
| (2)       | SD Card Reader             | Supports the Secure Digital (SD) Memory Card and MultiMediaCard (MMC) optional digital card formats.  |
| (3)       | 1394 port                  | Connects an optional IEEE 1394 or 1394a device, such as a camcorder.  |
| (4)       | Audio-out (headphone) jack | <p>Produces sound when connected to optional powered stereo speakers, headphones, ear buds, a headset, or television audio.</p> <p><b>WARNING!</b> To reduce the risk of personal injury, adjust the volume before putting on headphones, earbuds, or a headset. For additional safety information, refer to the <i>Regulatory, Safety and Environmental Notices</i>.</p> <p><b>NOTE:</b> When a device is connected to the headphone jack, the computer speakers are disabled.</p> |
| (5)       | Audio-in (microphone) jack | Connects an optional computer headset microphone, stereo array microphone, or monaural microphone.  |
| (6)       | USB port                   | Connects an optional USB device.  |
| (7)       | External monitor port      | Connects an external VGA monitor or projector.  |
| (8)       | Vent                       | <p>Enables airflow to cool internal components.</p> <p><b>NOTE:</b> 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>   |
| (9)       | Expansion port 3           | Connects an optional docking device.  |



| Component                      | Description   |
|--------------------------------|---|
| (1) Smart card reader          | Supports optional smart cards and Java™ cards.  |
| (2) SD Card Reader             | Supports the Secure Digital (SD) Memory Card and MultiMediaCard (MMC) optional digital card formats.  |
| (3) 1394 port                  | Connects an optional IEEE 1394 or 1394a device, such as a camcorder.  |
| (4) Audio-out (headphone) jack | Produces sound when connected to optional powered stereo speakers, headphones, ear buds, a headset, or television audio.<br><br><b>WARNING!</b> To reduce the risk of personal injury, adjust the volume before putting on headphones, earbuds, or a headset. For additional safety information, refer to the <i>Regulatory, Safety and Environmental Notices</i> .<br><br><b>NOTE:</b> When a device is connected to the headphone jack, the computer speakers are disabled. |
| (5) Audio-in (microphone) jack | Connects an optional computer headset microphone, stereo array microphone, or monaural microphone.  |
| (6) USB port                   | Connects an optional USB device.  |
| (7) External monitor port      | Connects an external VGA monitor or projector.  |
| (8) Vent                       | Enables airflow to cool internal components.<br><br><b>NOTE:</b> 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.  |
| (9) Expansion port 3           | Connects an optional docking device.  |

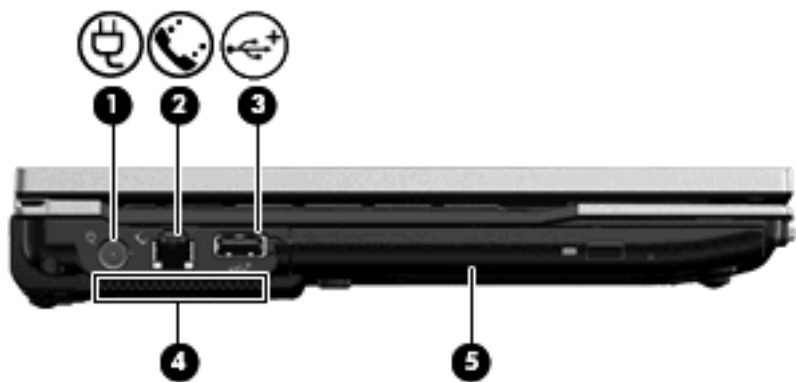
# Left-side components

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



| Component |                    | Description  |
|-----------|--------------------|--|
| (1)       | Power connector    | Connects an AC adapter.  |
| (2)       | RJ-11 (modem) jack | Connects a modem cable.  |
| (3)       | Powered USB port   | Provides power to an external device if used with a powered USB cable. |
| (4)       | USB port           | Connects an optional USB device.                                       |
| (5)       | 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.



| Component |                    | Description                                  |
|-----------|--------------------|--|
| (1)       | Power connector    | Connects an AC adapter.                      |
| (2)       | RJ-11 (modem) jack | Connects a modem cable.                      |
| (3)       | USB port           | Connects an optional USB device.             |
| (4)       | Vent               | Enables airflow to cool internal components. |

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**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.

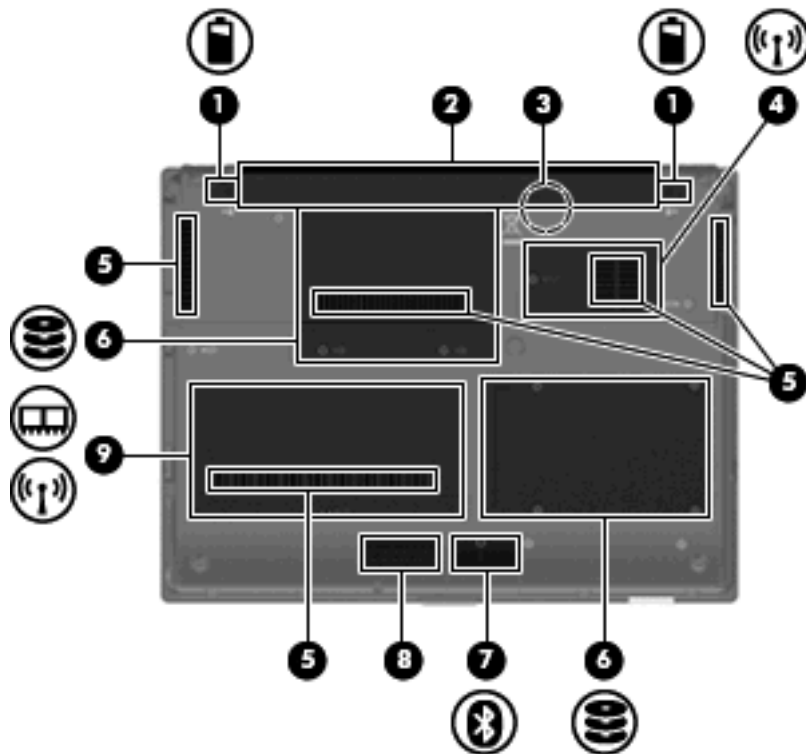
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**(5)**      Optical drive

Reads and writes to an optical disc.

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## Bottom components



| Component                                 | Description   |
|---|---|
| (1) Battery release latches (2)           | Release the battery from the battery bay.   |
| (2) Battery bay                           | Holds the battery.  |
| (3) SIM slot (select models only)         | Contains a wireless subscriber identity module (SIM). The SIM slot is located inside the battery bay.   |
| (4) Broadband wireless module compartment | Contains an HP Mobile Broadband Module (select models only).<br><br><b>CAUTION:</b> 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) Vents (5)                             | Enable airflow to cool internal components.<br><br><b>NOTE:</b> 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.   |
| (6) Hard drive bay                        | Holds the hard drive.<br><br><b>NOTE:</b> Your computer has one hard drive. Depending on your computer model, the location of the hard drive varies.  |
| (7) Bluetooth compartment                 | Contains a Bluetooth device.  |

| Component |                           | Description   |
|-----------|---------------------------|---|
| (8)       | Speaker                   | Produces sound.   |
| (9)       | Memory module compartment | <p>Contains an expansion memory module slot and a WLAN module (select models only).</p> <p><b>NOTE:</b> 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> |

# Wireless antennae (select models only)



| Component  |                    | Description  |
|--|--------------------|--|
| (1)  | WLAN antennae (2)* | Send and receive wireless signals to communicate with wireless local area networks (WLAN). |
| (2)  | WWAN antennae (2)* | Send and receive 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)       | Power cord*  | Connects an AC adapter to an AC outlet.   |
| (2)       | AC adapter   | Converts AC power to DC power.  |
| (3)       | Modem cable (select models only)*                                    | Connects the internal modem to an RJ-11 telephone jack or to a country- or region-specific modem cable adapter. |
| (4)       | Country- or region-specific modem cable adapter (select models only) | Adapts the modem cable to a non-RJ-11 telephone jack.   |
| (5)       | Battery*   | Powers the computer when the computer is not plugged into external power.                                       |

\*Modem cables, batteries, and power cords vary in appearance by country or region.

## 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:



- Product Name **(1)**. This is the product name affixed to the front of your notebook.
- Serial Number (s/n) **(2)**. This is an alphanumeric number 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 number you need 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—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 memory module compartment.
- 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, 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 memory module 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.
- HP Mobile Broadband Module serial number label (select models only)—Provides the serial number of your HP Mobile Broadband Module. This label is located inside the battery bay.

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