Notebook Tour
User Guide
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).
iv  Safety warning notice
# Table of contents

1 Identifying hardware

2 Components
   Top components ............................................................................................................................. 3
   TouchPad ................................................................................................................................. 3
   Lights .................................................................................................................................... 4
   Buttons, speakers and fingerprint reader ................................................................. 5
   Keys ..................................................................................................................................... 7
   Front components ..................................................................................................................... 8
   Rear components ..................................................................................................................... 9
   Right-side components ............................................................................................................. 10
   Left-side components .............................................................................................................. 11
   Bottom components .............................................................................................................. 12
   Display components .............................................................................................................. 13
   Cleaning the display ................................................................................................................ 14
   Wireless antennae (select models only) ........................................................................... 15
   Additional hardware components ....................................................................................... 16

3 Labels

Index ................................................................................................................................. 19
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.

**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 software, running utilities, or changing Windows settings. Refer to Help and Support for more information.
2 Components
# Top components

## TouchPad

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
</tr>
</thead>
</table>
| (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 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 and change TouchPad preferences, select Start > Control Panel > Hardware and Sound > Mouse.
## Lights

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
</tr>
</thead>
</table>
| (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. 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. |
| (3) Drive light    | • Blinking: The hard drive or optical drive is being accessed.  
• Amber: HP ProtectSmart has temporarily parked the hard drive. |
| (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) Wireless light
- Blue: An integrated wireless device, such as a wireless local area network (WLAN) device and/or a Bluetooth® device, is turned on.
- Amber: All wireless devices are turned off.

(9) Num lock light
On: Num lock is on or the integrated 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

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1) Speakers (2)</td>
<td>Produce sound.</td>
</tr>
</tbody>
</table>
| (2) Power button* | - When the computer is off, press the button briefly to turn on the computer.  
- When the computer is on, press the button briefly to initiate Sleep.  
- When the computer is in the Sleep state, press the button briefly to exit Sleep.  
- When the computer is in Hibernation, press the button briefly 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 Maintenance > Power Options**.

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>(3) MediaSmart button</td>
<td>Launches the HP MediaSmart program when the computer is turned on.</td>
</tr>
<tr>
<td>(4) Volume mute button</td>
<td>Mutes and restores speaker sound.</td>
</tr>
<tr>
<td>(5) Volume scroll zone</td>
<td>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.</td>
</tr>
</tbody>
</table>
| (6) Previous/rewind button | • Plays the previous track or chapter when the button is pressed once.  
• Rewinds media when the button is pressed simultaneously with the **fn** key. |
| (7) Play/pause button | Plays or pauses the disc. |
| (8) Next/fast forward button | • Plays the next track or chapter when the button is pressed once.  
• Fast forwards media when pressed simultaneously with the **fn** key. |
| (9) Stop button | Stops playback. |
| (10) Wireless button | 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. |
| (11) 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

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1) esc key</td>
<td>Displays system information about your computer when pressed in combination with the fn key.</td>
</tr>
<tr>
<td>(2) fn key</td>
<td>Executes frequently used system functions when pressed in combination with a function key or the esc key.</td>
</tr>
<tr>
<td>(3) Windows logo key</td>
<td>Displays the Windows Start menu.</td>
</tr>
<tr>
<td>(4) Windows applications key</td>
<td>Displays a shortcut menu for items beneath the pointer.</td>
</tr>
<tr>
<td>(5) Integrated numeric keypad keys</td>
<td>Can be used like the keys on an external numeric keypad.</td>
</tr>
<tr>
<td>(6) Function keys</td>
<td>Execute frequently used system functions when pressed in combination with the fn key.</td>
</tr>
</tbody>
</table>
## Front components

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
</tr>
</thead>
</table>
| (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. 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. |
| (3) Drive light                  | ● Blinking: The hard drive or optical drive is being accessed.  
● Amber: HP ProtectSmart has temporarily parked the hard drive. |
| (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. |

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

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vents (2)</td>
<td>Enables airflow to cool internal components.</td>
</tr>
<tr>
<td></td>
<td><strong>NOTE:</strong> The computer fan starts up automatically to cool internal</td>
</tr>
<tr>
<td></td>
<td>components and prevent overheating. It is normal for the internal fan to</td>
</tr>
<tr>
<td></td>
<td>cycle on and off during routine operation.</td>
</tr>
</tbody>
</table>

---
## Right-side components

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1) USB ports (2)</td>
<td>Connect optional USB devices.</td>
</tr>
<tr>
<td>(2) Optical drive light</td>
<td>Blinking: The optical drive is being accessed.</td>
</tr>
<tr>
<td>(3) Optical drive</td>
<td>Reads optical discs and, on select models, also writes to optical discs.</td>
</tr>
<tr>
<td>(4) TV antenna/cable jack (select models only)</td>
<td>Connects a TV antenna, a digital cable device, or a satellite device that receives standard or high-definition TV broadcasts.</td>
</tr>
<tr>
<td>(5) RJ-11 (modem) jack (select models only)</td>
<td>Connects a modem cable.</td>
</tr>
<tr>
<td>(6) Power connector</td>
<td>Connects an AC adapter.</td>
</tr>
</tbody>
</table>
## Left-side components

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1) Security cable slot</td>
<td>Attaches an optional security cable to the computer. &lt;br&gt;&lt;br&gt; <strong>NOTE:</strong> The security cable is designed to act as a deterrent, but it may not prevent the computer from being mishandled or stolen.</td>
</tr>
<tr>
<td>(2) External monitor port</td>
<td>Connects an external VGA monitor or projector.</td>
</tr>
<tr>
<td>(3) Expansion port 3</td>
<td>Connects the computer to an optional docking device or an optional expansion product. &lt;br&gt;&lt;br&gt; <strong>NOTE:</strong> The computer has only one expansion port. The term <em>expansion port 3</em> describes the type of expansion port.</td>
</tr>
<tr>
<td>(4) RJ-45 (network) jack</td>
<td>Connects a network cable.</td>
</tr>
<tr>
<td>(5) HDMI port</td>
<td>Connects an optional video or audio device, such as a high-definition television, or any compatible digital or audio component.</td>
</tr>
<tr>
<td>(6) eSATA/USB port</td>
<td>Connects an optional high-performance eSATA component, such as an eSATA external hard drive, or an optional USB device.</td>
</tr>
<tr>
<td>(7) USB port</td>
<td>Connects optional USB devices.</td>
</tr>
<tr>
<td>(8) 1394 port (select models only)</td>
<td>Connects an optional IEEE 1394 or 1394a device, such as a camcorder.</td>
</tr>
<tr>
<td>(9) Digital Media Slot light</td>
<td>On: The Digital Media Slot is in use.</td>
</tr>
<tr>
<td>(10) Digital Media Slot</td>
<td>Supports the following optional digital card formats: Secure Digital (SD) Memory Card, MultiMediaCard (MMC), Memory Stick (MS), Memory Stick Pro (MSP), xD-Picture Card (XD), xD-Picture Card (XD) Type H, xD-Picture Card (XD) Type M.</td>
</tr>
<tr>
<td>(11) ExpressCard slot</td>
<td>Supports optional ExpressCard/54 cards.</td>
</tr>
</tbody>
</table>
## Bottom components

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1) Battery bay</td>
<td>Holds the battery.</td>
</tr>
<tr>
<td>(2) Integrated Subwoofer</td>
<td>Contains the subwoofer speaker.</td>
</tr>
</tbody>
</table>
| (3) Vents (4) | 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. |
| (4) Hard drive, memory module, and WLAN module compartment | Holds the hard drive, the memory module slots, and the WLAN module (select models only).  
**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. |
## Display components

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1) Internal display switch</td>
<td>Turns off the display and initiates Sleep if the display is closed while the power is on.</td>
</tr>
<tr>
<td>(2) Internal microphones (2)</td>
<td>Record sound.</td>
</tr>
<tr>
<td>(3) Integrated webcam light</td>
<td>On: The integrated webcam is in use.</td>
</tr>
<tr>
<td>(4) Integrated webcam</td>
<td>Records video and captures still photographs.</td>
</tr>
</tbody>
</table>
Cleaning the display

To remove smudges and lint, frequently clean the display with a soft, damp, lint-free cloth. If the screen requires additional cleaning, use premoistened antistatic wipes or an antistatic screen cleaner.

⚠️ **CAUTION:** To prevent permanent damage to the computer, never spray water, cleaning fluids, or chemicals on the display.
Wireless antennae (select models only)

On select computer models, at least 2 antennae send and receive signals from one or more wireless devices. These antennae are not visible from the outside of the computer.

**NOTE:** 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

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1) Power cord*</td>
<td>Connects an AC adapter to an AC outlet.</td>
</tr>
<tr>
<td>(2) Battery*</td>
<td>Powers the computer when the computer is not plugged into external power.</td>
</tr>
<tr>
<td>(3) AC adapter</td>
<td>Converts AC power to DC power.</td>
</tr>
<tr>
<td>(4) TV antenna/cable adapter (select models only)</td>
<td>Connects an RF coaxial cable to the TV antenna/cable jack.</td>
</tr>
<tr>
<td>(5) TV antenna (select models only)</td>
<td>Receives digital and analog broadcast signals.</td>
</tr>
</tbody>
</table>

*Batteries and power cords vary in appearance by region and country.
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:
  - **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 most important number you need to locate documents, drivers, and support for your notebook.
  - **Warranty period (5).** Describes the duration (in years) 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 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, memory module, and WLAN module compartment.

- **Wireless certification label(s) (select models only)**—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 hard drive, memory module, and WLAN module compartment.
Index

Symbols/Numerics
1394 port, identifying 11

A
AC adapter, identifying 16
antennae 15
applications key, Windows 7
audio-in (microphone) jack, identifying 8
audio-out (headphone) jack, identifying 8

B
battery bay, identifying 12
battery light, identifying 4, 8
battery release latch, identifying 12
battery, identifying 16
bays
battery 12, 17
hard drive 12
BluTooth label 18
buttons
MediaSmart 6
next/fast forward 6
play/pause 6
power 5
previous/rewind 6
stop 6
TouchPad 3
TouchPad on/off 3
volume mute 6

C
caps lock, lights 4
Certificate of Authenticity label 17
cleaning the display 14
compartments
memory module 12
WLAN module 12
components
additional hardware 16
bottom 12
display 13
front 8
left-side 11
rear 9
right-side 10
top 3
connectors, power 10
cord, power 16
integrated webcam,
identifying 13
internal display switch,
identifying 13
internal microphone,
identifying 13

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

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

L
labels
Bluetooth 18
Microsoft Certificate of
Authenticity 17
modem approval 17
regulatory 17
service tag 17
wireless certification 18
WLAN 18
latches
battery release 12
lights
battery 4, 8
caps lock 4
drive  4,  8
num lock  5
power  4,  8
TouchPad  3
volume down  4
volume mute  4
volume up  4
wireless  5

M
media activity buttons,
  identifying  6
MediaSmart button, identifying  6
memory module compartment,
  identifying  12
microphone (audio-in) jack  8
microphone, internal  13
Microsoft Certificate of Authenticity
  label  17
modern approval label  17
monitor port, external  11
mute button, identifying  6

N
next/fast forward button,
  identifying  6
num lock light, identifying  5

O
operating system
  Microsoft Certificate of
    Authenticity label  17
  Product Key  17
optical drive, identifying  10

P
play/pause button, identifying  6
ports
  1394  11
eSATA  11
expansion  11
external monitor  11
HDMI  11
USB  10,  11
power button, identifying  5
power connector, identifying  10
power cord, identifying  16
power light, identifying  4,  8
previous/rewind button,
  identifying  6
Product Key  17

R
regulatory information
  modem approval label  17
  regulatory label  17
  wireless certification labels  18
RJ-11 (modem) jack,
  identifying  10
RJ-45 (network) jack,
  identifying  11
scrolling zones, TouchPad  3
security cable slot, identifying  11
serial number, computer  17
service tag  17
slots
  Digital Media  11
  ExpressCard  11
  memory module  12
  security cable  11
speakers, identifying  5
stop button, identifying  6

T
TouchPad buttons, identifying  3
TouchPad light, identifying  3
TouchPad on/off button  3
TouchPad scrolling zones,
  identifying  3
TouchPad, identifying  3
touching with the computer
  modem approval label  17
  wireless certification labels  18
TV antenna  16
TV antenna/cable jack,
  identifying  10
TV, cable adapter  16

U
USB ports, identifying  10,  11

V
vents, identifying  9,  12
volume down light, identifying  4
volume mute button, identifying  6
volume mute light, identifying  4
volume scroll zone, identifying  6
volume up light, identifying  4
webcam, identifying  13
Windows applications key,
  identifying  7
Windows logo key, identifying  7
wireless antennae  15
wireless certification label  18
wireless light, identifying  5
WLAN label  18
WLAN module  18
WLAN module compartment,
  identifying  12
product name and number,
  computer  17

W