



HP USB 3.0 Port Replicator

User Guide

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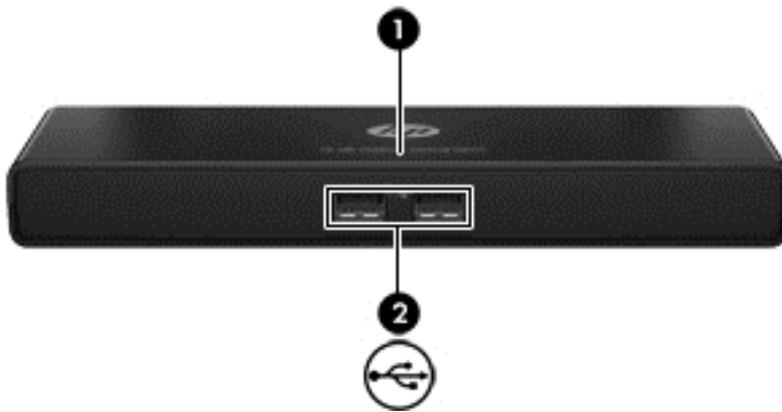
1 Getting started

Identifying components

This chapter identifies the visible hardware features of the HP USB 3.0 Port Replicator and provides setup instructions for the port replicator.

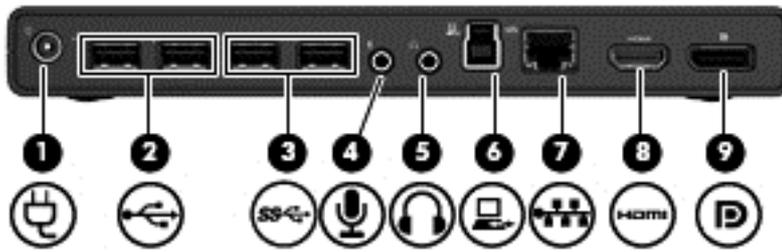
 **NOTE:** The port replicator may have features that are not supported by your computer.

Top and front components



	Component	Description
(1)	LED power light	On: The port replicator is on.
(2)	 USB 2.0 ports (2)	Connect optional USB devices.

Rear components



	Component	Description
(1)	 Power connector	Connects the port replicator AC adapter.
(2)	 USB 2.0 ports (2)	Connect optional USB devices.
(3)	 USB 3.0 ports (2)	Connect optional USB devices.
(4)	 Audio-in (microphone) jack	Connects an optional computer headset microphone, stereo array microphone, or monaural microphone.
(5)	 Audio-out (headphone) jack	Produces computer sound when connected to optional powered stereo speakers, headphones, headsets, earbuds, or television audio. WARNING! 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> located on the <i>Accessory User Guides</i> disc.
(6)	USB 3.0 port	Connects the port replicator to a computer.
(7)	 RJ-45 (network) jack	Connects a network cable.
(8)	 HDMI port	Connects an optional video or audio device, such as a high-definition television, or any compatible digital or audio component.
(9)	 DisplayPort	Connects an optional digital display device, such as a high-performance monitor or projector.

Left component



When you are viewing the port replicator from the rear panel, the security cable slot appears on the right side.

Component	Description
 Security cable slot	Attaches an optional security cable to the port replicator. NOTE: The security cable is designed to act as a deterrent, but it may not prevent the computer from being mishandled or stolen.

Setting up the USB port replicator

Step 1: Connecting to AC power

⚠ WARNING! To reduce the risk of electric shock or damage to your equipment:

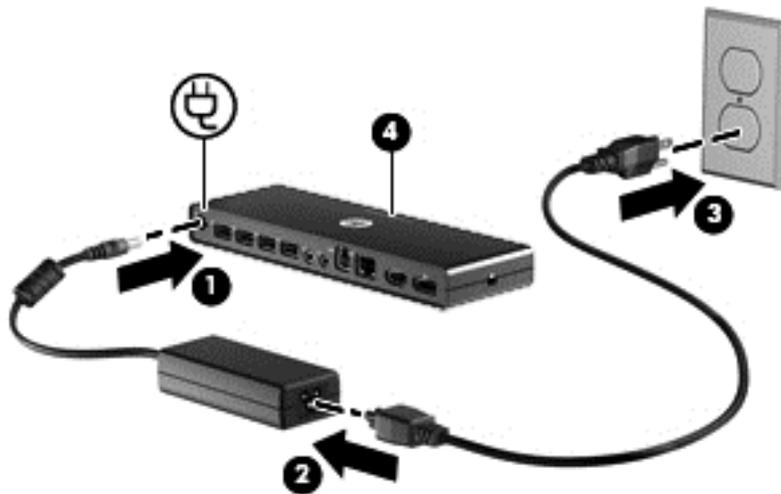
Plug the power cord in a grounded (earthed) outlet that is easily accessible at all times.

Disconnect power from the equipment by unplugging the power cord from the electrical outlet.

Do not disable the power cord grounding plug. The grounding plug is an important safety feature.

To ensure the correct performance of all port replicator features, connect the port replicator to an AC power source using the port replicator power cord.

1. Connect the AC adapter to the power connector (1).
2. Connect one end of the power cord to the AC adapter (2), and connect the other end of the power cord to an electrical outlet (3). The power light (4) on the top of the port replicator turns on.



Step 2: Connecting to the computer

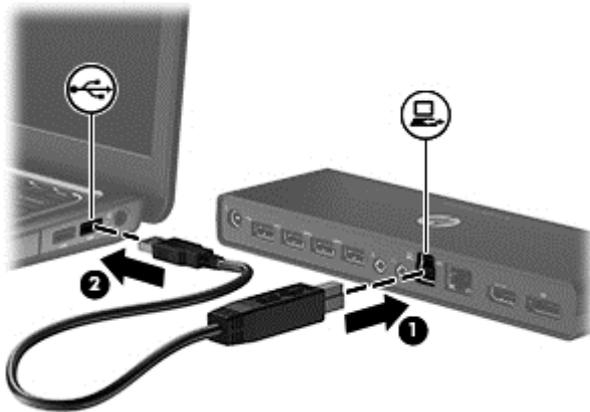
To connect the computer to the port replicator:

1. Connect one end of the USB cable to the USB 3.0 port **(1)** on the rear of the port replicator.

 **NOTE:** Be sure to connect the USB cable to the USB 3.0 port **(1)** on the port replicator as indicated below. The connection may not function properly if the USB cable is connected to one of the other USB ports.

2. Connect the other end of the USB cable to a USB port **(2)** on the computer.

 **NOTE:** The computer USB port identified below is a USB 2.0 port; however, for a faster connection and better performance, use a USB 3.0 port on your computer if one is available.



Step 3: Prevent the computer from sleeping

To ensure that the computer does not initiate Sleep or Standby when the display is closed:

1. Open the Windows Control Panel Power Options page, and then click the **Advanced** tab.
2. In the **Power Buttons** section, click **Do nothing** from the **When I close the lid of my portable computer** list, and then click **OK**.

 **NOTE:** For instructions on accessing the Power Options page, refer to Help and Support on the computer.

Setting up the software

This section describes how to install the HP Port Replicator Software on a computer running Windows® 7, Windows Vista®, or Windows® XP operating systems. The software is preinstalled in flash memory on the port replicator.

1. With the computer on and Windows running, connect the USB cable from the port replicator to the computer. If the **New Hardware Found** message is displayed on the computer screen, close it by clicking the **X** in the upper-right corner.
2. When the **HP Dock** drive window displays on the computer screen, click on **Open folder to view files**, and then double-click **HP Port Replicator Software Installer**.

If the **HP Dock** drive window does not open, right-click the **Start** button in the bottom-left corner of the desktop, and then click **Explore** or **Open Windows Explorer** depending on your computer operating system. Click the **HP Dock** drive, and then double-click **HP Port Replicator Software Installer**.

The **InstallShield Wizard** dialog box opens and starts to install the software.

3. When the **End User License Agreement** dialog box opens, click **I accept the terms in the license agreement**.
4. If the computer is running Windows 7, when the **User Account Control** dialog box opens, click **Yes** to allow the program to make changes to your computer.

When the installation completes, the DisplayLink icon is added to the Notification area, at the far right of the taskbar.

5. To close Windows Explorer if it is still open, select **File > Close**, or click the **X** in the upper-right corner.
6. To ensure that the new settings take effect, restart the computer.

Using the software

Using DisplayLink

Use DisplayLink to configure the display of a monitor attached to the port replicator for computers running Windows Vista and XP:

1. Click the **DisplayLink** icon in the Notification area, at the far right of the taskbar.



2. To set the external monitor as an extension of the primary monitor, click **Extend**.

– or –

To set the external monitor as a copy of the primary monitor, click **Mirror**.

– or –

To set the external monitor to be the only display, click **Notebook monitor off**.

– or –

To set the external monitor to be the primary display, click **Set as main monitor**.

DisplayLink provides fewer options for computers running Windows 7. Use Windows Display Properties by pressing the [Windows logo](#) key + the **p** key for display configuration on Windows 7. DisplayLink allows you to optimize the display for video, check for updates, and configure advanced settings, which provides a link to Windows Display Properties.

Using Windows properties

Use Windows properties to configure the display of a monitor attached to the port replicator:

 **NOTE:** When first plugging in the port replicator to a computer using Windows 7, Windows Display Properties will automatically appear and the external display will automatically be configured in Mirror mode as the default.

1. If the computer is running Windows 7, right-click on the desktop, and then select **Screen Resolution**.

– or –

If the computer is running Windows Vista, right-click on the desktop, and then select **Personalize > Display Settings**.

– or –

If the computer is running Windows XP, right-click on the desktop, and then select **Properties > Settings**.

2. To set the external monitor as the primary monitor on computers running Windows 7, select **Make this my main display**. To set the external monitor as the primary monitor on computers running Windows Vista or XP, select **This is my main monitor**.

– or –

To set the external monitor as an extension of the primary monitor on computers running Windows 7, select **Extend these displays**. To set the external monitor as an extension of the primary monitor on computers running Windows Vista and XP, select **Extend the desktop onto this monitor**.

– or –

To set the external monitor as a copy of the primary monitor on computers running Windows 7, select **Duplicate these displays**. To set the external monitor as a copy of the primary monitor on computers running Windows Vista or XP, select **This is my main monitor**.

In addition to the display properties described above, Windows 7 allows you to configure some additional display settings using the [Windows logo](#) key + the [p](#) key. Press the [Windows logo](#) key + the [p](#) key on the keyboard to configure settings that will allow display on the computer only, duplicate display, or extend display.

Using additional software features

The DisplayLink software offers additional features for configuring monitors attached to the port replicator for computers running Windows Vista and Windows XP:

- **Screen Resolution**—Changes the resolution of the external monitor.
- **Color quality**—Changes the color depth of the external monitor to 16 or 32 bit.
- **Screen rotation**—Rotates the display of the external monitor 90, 180, or 270 degrees.
- **Off**—Turns the external monitor off.
- **Advanced**—Opens the Windows properties box.

For computers running Windows 7 and Windows Vista, the following option is also available:

- **Optimize for Video**—Improves the video playback experience on the display attached to the port replicator.

Standby, Sleep, Hibernation, shutdown, and restart

If the computer connected to the port replicator initiates Standby (Windows XP) or the Sleep state (Windows Vista and Windows 7) or Hibernation, the monitor turns off. When the computer exits Standby, Sleep, or Hibernation, the connected monitor returns to the previous monitor settings.

If the computer is restarted or shut down and then turned back on, the connected monitor returns to the previous monitor settings.

2 Using the port replicator

Port replicator guidelines

- **Operating systems**—For optimal performance, use the port replicator with HP or Compaq computers running the Windows 7, Windows Vista, or Windows XP operating systems.
- **Power**—To use port replicator features, AC power must be connected to the port replicator.

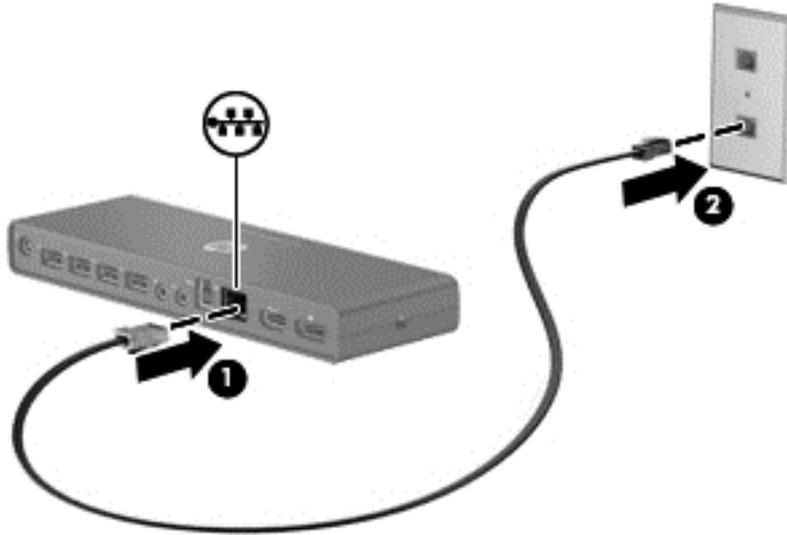
 **NOTE:** It is recommended that AC power be connected to both the port replicator and to the computer if you plan to use the port replicator for more than 10 minutes at one time.

- **Connecting and disconnecting**—The port replicator can be connected to or disconnected from the computer whether the computer is on or off. (See [Step 2: Connecting to the computer on page 5](#) and [Disconnecting the port replicator on page 15](#).)
- **External devices**—When the port replicator is connected to a computer, external devices may be connected to the ports on the port replicator or to the ports on the computer.

Connecting to a network

You can connect your computer through the port replicator to a network. This requires an Ethernet cable (purchased separately).

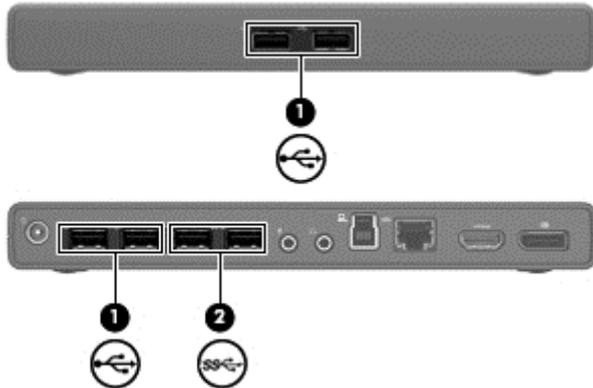
1. Connect the port replicator to your computer.
2. Connect one end of the Ethernet cable to the RJ-45 (network) jack on the port replicator **(1)** and connect the other end to an RJ-45 wall jack **(2)** or router.



Connecting USB devices

The port replicator has six USB ports: two USB 2.0 ports on the front panel, and two USB 2.0 ports and two USB 3.0 ports on the rear panel. Use the USB ports to connect optional external USB devices, such as a keyboard and mouse.

 **NOTE:** Be sure that the external device is compliant with the port replicator power specifications. Using a noncompliant device may disable the port to which the device is attached. To reset the port, see [Troubleshooting on page 16](#).



Connecting to a DVI display device

The port replicator can also be connected to an external DVI display device, such as a monitor or a projector, through the DisplayPort. The USB 3.0 port replicator supports video connections to the HDMI port and the DisplayPort at the same time.



 **NOTE:** The DisplayPort supports only DisplayPort monitors. It does not support DisplayPort-HDMI, DisplayPort-VGA, or DisplayPort-DVI converters.

Connecting an HDMI device

You can connect the port replicator to an external video or audio device, such as a high-definition television, or to any digital audio components, through the HDMI port. The USB 3.0 port replicator supports video connections to the HDMI port and the DisplayPort at the same time.

 **NOTE:** To transmit video signals through the HDMI port, you need an HDMI cable (purchased separately).



Connecting audio

You can connect headphones or speakers directly into the headphone jack on the port replicator. In addition, you can also connect analog audio devices.

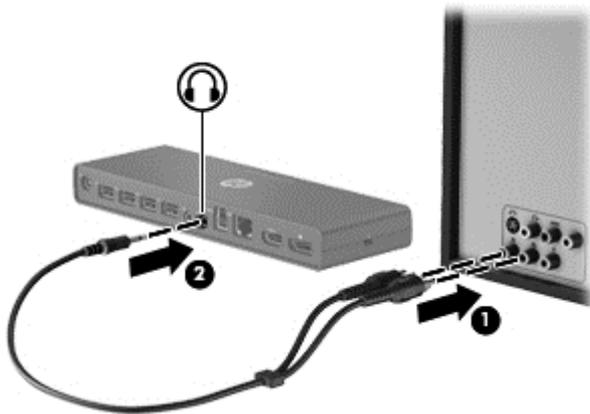
 **NOTE:** Do not connect more than one audio device to the port replicator.

 **NOTE:** The headphone jack on the computer is disabled when an audio device is connected to the port replicator, or when the port replicator is connected to the HP USB Notebook Speaker (purchased separately).

Connecting analog audio devices

To connect analog audio:

1. Connect one end of an audio Y-cable (purchased separately) to the headphone jack on the port replicator (**1**).
2. Connect the other end to the red and white audio-in jacks on your television or stereo equipment (**2**). Refer to your television or stereo equipment user guide for the jack names and locations.

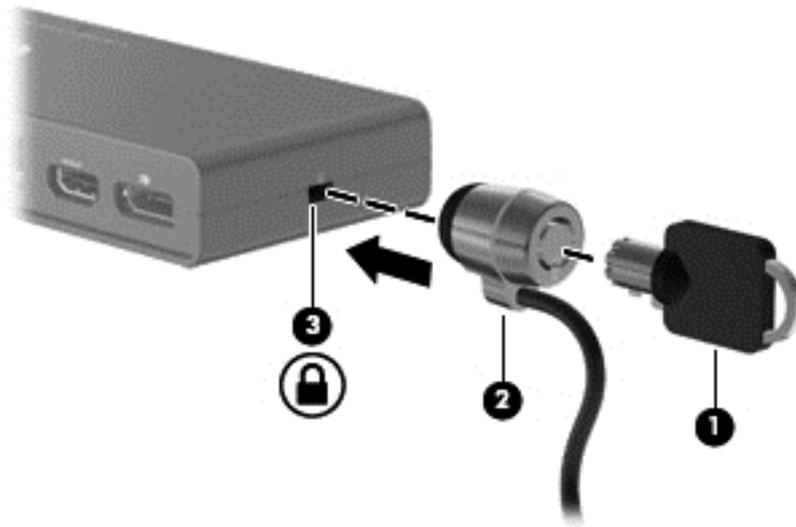


Connecting an optional security cable

 **NOTE:** The security cable is designed to act as a deterrent, but it may not prevent the port replicator from being mishandled or stolen.

To install a security cable:

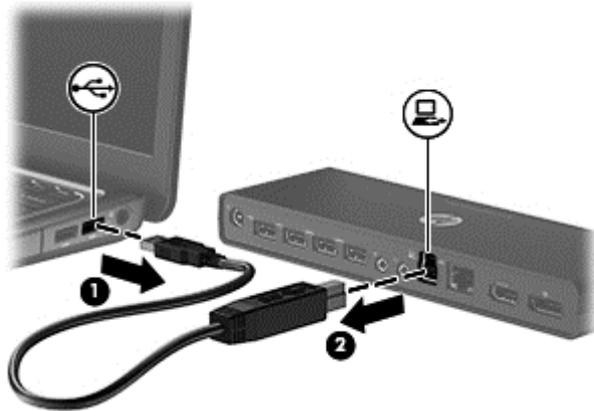
1. Loop the security cable around a secured object.
2. Insert the key (1) into the cable lock (2).
3. Insert the cable lock into the security cable slot on the port replicator (3), and then turn the key.



3 Disconnecting the port replicator

To disconnect the port replicator from the computer, follow these steps:

1. Click the **Safely Remove Hardware** icon in the Notification area, at the far right of the taskbar.
2. Click **Safely Remove USB Docking Station**. The **Safe to Remove Hardware** message is displayed.
3. Disconnect the USB cable from the computer **(1)** and then disconnect the port replicator **(2)**.



4 Troubleshooting

Solving common problems

The following tables list possible problems and the recommended solutions.

General use and connection problems

Problem	Possible cause	Solution
The power light is off.	The port replicator is not connected to AC power.	Connect the power cord to the port replicator and to an electrical outlet.
The ports or jacks on the port replicator are not working.	The port replicator is not connected to AC power.	Connect the power cord to the port replicator and to an electrical outlet.
	The port replicator is not connected to the computer correctly.	Disconnect the USB cable from the computer, and then reconnect it.
A USB port on the port replicator is disabled.	The USB device attached to the port may not be compliant with the port replicator power specifications and is using too much power.	Reset the port: <ol style="list-style-type: none">1. Disconnect the device that disabled the port.2. Disconnect the power cord from the port replicator, and then reconnect it. <p>– or –</p> Disconnect the port replicator from the computer, and then reconnect it.

When the port replicator is connected to the computer, both the WLAN and the LAN are connected.

Switching from the WLAN connection to the LAN connection is not supported.

Disable the WLAN connection:

If you are using Windows 7 or Vista:

- Select **Start > Control Panel > Hardware and Sound > Windows Mobility Center > Turn wireless off.**

– or –

- Click the **Show hidden icons** arrow in the Notification area, and then click the **HP Connection Manager** icon.

In the HP Connection Manager window, click the **WLAN power** icon to turn it off.

If you are using Windows XP:

- Select **Start > Control Panel > HP Wireless Assistant > Turn off.**

– or –

- Click the **Info Center** icon in the Notification area. The Control Panel opens. Select **HP Wireless Assistant > Turn off.**

Cannot uninstall DisplayLink core software using **Uninstall a program** in Windows 7 or Vista; or using **Add or Remove Programs** in Windows XP.

Using **Uninstall a program** in Windows 7 or Vista, or **Add or Remove Programs** in Windows XP, uninstall **HP USB Docking Video**. This automatically uninstalls DisplayLink.

Audio problems

Problem	Possible cause	Solution
Headphones or other audio device connected to the computer do not produce sound.	Headphones or another audio device is connected to the headphone jack on the port replicator. Using the headphone jack on the port replicator mutes sound through the computer.	Disconnect the headphones or other audio device from the headphone jack on the port replicator, or use the device connected to it.
	More than one audio device is connected to the port replicator.	Be sure that only one audio device is connected to the port replicator.
A microphone connected to the computer does not work.	A microphone is connected to the port replicator. While a microphone is connected to the port replicator, the microphone jack on the computer is disabled.	Either use the microphone connected to the port replicator or disconnect it.
A connected home entertainment system does not have audio.	Audio is not connected properly.	Be sure that the port replicator is properly connected to the home entertainment system.

Video problems

Problem	Possible cause	Solution
The screen resolution of an external monitor connected to the DisplayPort cannot be changed.	The monitor attached to the DisplayPort may be a dual-link monitor.	Use a single-link monitor.
Fonts and other characters on the external monitor appear large.	The external monitor screen resolution is higher than the maximum limits of 1600 x 1200 or 1680 x 1050.	Set the screen resolution equal to or lower than the maximum limits.
The graphics application does not detect the external monitor.	Some graphics applications do not detect external monitors connected to the port replicator.	Use the DisplayLink software to configure the external monitor. Refer to Using the software on page 7 .
The external monitor cannot be set as the primary monitor when using some Intel graphics applications.	Older Intel graphics applications do not support setting the external monitor as the primary monitor.	Download the latest Intel drivers from http://www.hp.com/support .
The computer monitor does not work.	The external monitor has been disconnected from the port replicator before the port replicator was disconnected from the computer.	Disconnect the port replicator from the computer, and then disconnect the external monitor from the port replicator.
A video device connected to the external monitor port on the computer displays a black screen when playing Blu-ray or other protected content.	The port replicator does not support viewing Blu-ray or other protected content on an external display device connected to the external monitor port on the port replicator.	Use the display device on the computer.

Getting more information

- For comprehensive information about your computer, as well as governmental agency and safety information about the use of your computer, access Help and Support by selecting **Start > Help and Support**.
- The HP Web site (<http://www.hp.com>) provides product news and software updates.

Contacting support

If you cannot solve a problem using the troubleshooting tips in this chapter, you may need to contact support.

For the fastest possible resolution of your problem, have the following information available when you call or e-mail:

- Model name and number for the computer and for the port replicator
- Serial numbers for the computer and port replicator
- Dates the computer and port replicator were purchased
- Conditions under which the problem occurred
- Error messages that have been displayed
- Hardware and software you are using
- The manufacturer and model of components connected to the computer and port replicator
- The serial number and other information for the port replicator can be found on the service label located on the bottom of the port replicator.

To contact support using your HP computer, select **Start > Help and Support > Contact support** to start a chat session with a support specialist.

For U.S. support, go to <http://www.hp.com/go/contactHP>.

For worldwide support, go to http://welcome.hp.com/country/us/en/wwcontact_us.html.

Here you can:

- Chat online with an HP technician.



NOTE: When support chat is not available in a particular language, it is available in English.

- E-mail support.
- Find support telephone numbers.
- Locate an HP service center.

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