

Modem and Local Area Network

User Guide

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Table of contents

1 Modem

Connecting a modem cable	2
Connecting a country-specific modem cable adapter	3
Selecting a location setting	4
Viewing the current country selection	4
Adding new locations when traveling	5
Solving travel connection problems	6

2 Local area networks

Index	10
-------------	----

1 Modem

The modem in the computer must be connected to an analog telephone line using a 6-pin, RJ-11 modem cable (not included with the computer). In some countries, a country-specific modem cable adapter is also required. Jacks for digital PBX systems may resemble analog telephone jacks, but they are not compatible with the modem.




WARNING! Connecting the internal analog modem to a digital line can permanently damage the modem. Immediately disconnect the modem cable if you accidentally connect it to a digital line.

If the modem cable contains noise suppression circuitry **(1)**, which prevents interference from TV and radio reception, orient the circuitry end **(2)** of the cable toward the computer.



NOTE The computer may look different from the illustrations in this guide. The location of the modem jack varies by model.

Connecting a modem cable

 **WARNING!** To reduce the risk of electric shock, fire, or damage to the equipment, do not plug a modem cable (not included with the computer) into the RJ-45 (network) jack.

To connect a modem cable:

1. Plug the modem cable into the modem jack **(1)** on the computer.
2. Plug the modem cable into the RJ-11 telephone wall jack **(2)**.

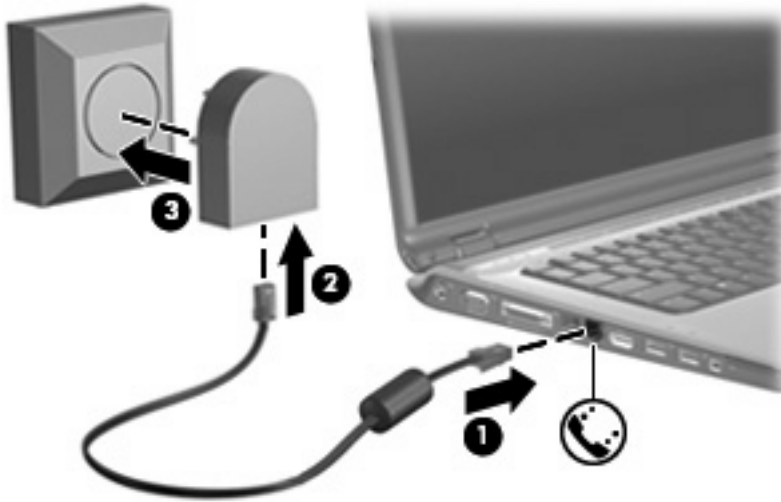


Connecting a country-specific modem cable adapter

Telephone jacks vary by country. To use the modem and the modem cable (not included with the computer) outside the country in which you purchased the computer, you must obtain a country-specific modem cable adapter.

To connect the modem to an analog telephone line that does not have an RJ-11 telephone jack:

1. Plug the modem cable into the modem jack (1) on the computer.
2. Plug the modem cable into the country-specific modem cable adapter (2).
3. Plug the country-specific modem cable adapter (3) into the telephone wall jack.



Selecting a location setting

Viewing the current country selection

To view the current country setting for the modem:

1. Select **Start > Control Panel**.
2. Click **Clock, Language, and Region**.
3. Click **Regional and Language Options**.
4. Under **Location**, view your present location.

Adding new locations when traveling

By default, the only location setting available to the modem is a location setting for the country in which you purchased the computer. As you travel to different countries, set the internal modem to a location setting that meets the operating standards of the country in which you are using the modem.

As you add new location settings, they are saved by the computer so that you can switch among settings at any time. You can add multiple location settings for any country.



CAUTION To prevent losing your home country settings, do not delete your current modem country settings. To enable modem use in other countries while preserving your home country configuration, add a new configuration for each location in which you will use the modem.

CAUTION To prevent configuring the modem in a way that violates the telecommunications regulations and laws of the country you are visiting, select the country in which the computer is located. The modem may not function properly if the correct country selection is not made.

To add a location setting for the modem:

1. Select **Start > Control Panel > Hardware and Sound > Phone and Modem Options**.
2. On the **Dialing Rules** tab, click **New**. (The New Location window is displayed.)
3. In the **Location name** box, type a name (home, work, etc.) for the new location setting.
4. Click a country or region from the **Country/region** drop-down list. (If you select a country or region that is not supported by the modem, the Country/region selection for *USA* or *UK* is displayed by default.)
5. Enter the area code, a carrier code (if necessary), and the number to access an outside line (if necessary).
6. Next to Dial using, click **Tone** or **Pulse**.
7. Click **OK** to save your new location setting. (The Dialing Rules window is displayed.) Then
 - To set your new location setting as the current location, click **OK**.
 - To select another location setting as the current location setting, click your preference from the settings in the **Location** list, and then click **OK**.



NOTE You can use the preceding procedure to add location settings for places within your own country as well as in other countries. For example, you could add a setting named “Work” that includes dialing rules for accessing an outside line.

Solving travel connection problems

If you experience modem connection problems when using the computer outside of the country in which you purchased it, try the following suggestions.

- **Check the telephone line type.**

The modem requires an analog, not a digital, telephone line. A line described as a PBX line is usually a digital line. A telephone line described as a data line, fax machine line, modem line, or standard telephone line is usually an analog line.

- **Check for pulse or tone dialing.**

An analog telephone line supports one of 2 dialing modes: pulse dialing or tone dialing. These dialing mode options are selected in the Phone and Modem Options settings. The dialing mode option selected must match the dialing mode supported by the telephone line in your location.

To determine the dialing mode supported by a telephone line, dial a few digits on the telephone, and then listen for clicks (pulses) or tones. Clicks indicate that the telephone line supports pulse dialing. Tones indicate that the telephone line supports tone dialing.

To change the dialing mode in your current modem location setting:

- a. Select **Start > Control Panel > Hardware and Sound > Phone and Modem Options**.
- b. Click the **Dialing Rules** tab.
- c. Select your modem location setting.
- d. Click **Edit**.
- e. Click either **Tone** or **Pulse**.
- f. Click **OK** twice.

- **Check the telephone number you are dialing and the response of the remote modem.**

Dial a telephone number, make sure there is a response from the remote modem, and then hang up.

- **Set the modem to ignore dial tones.**

If the modem receives a dial tone it does not recognize, it does not dial and displays a “No Dial Tone” error message.

To set the modem to ignore all dial tones before dialing:

- a. Select **Start > Control Panel > Hardware and Sound > Phone and Modem Options**.
- b. Click the **Modems** tab.
- c. Click the listing for the modem.
- d. Click **Properties**.
- e. Click **Modem**.
- f. Clear the check box for **Wait for dial tone before dialing**.
- g. Click **OK** twice.

If you continue to receive the “No Dial Tone” error message after clearing the **Wait for dial tone before dialing** check box:

1. Select **Start > Control Panel > Hardware and Sound > Phone and Modem Options**.
2. Click the **Dialing Rules** tab.
3. Select your current modem location setting.
4. Click **Edit**.
5. Select your current location from the **Country/region** drop-down list, and enter the area code in the Area code box. If you select a country or region that is not supported by the modem, the Country/region selection for *USA* or *UK* is displayed by default.
6. Click **Apply** and then **OK**.
7. In the Phone and Modem Options window, click the **Modems** tab.
8. Click the listing for the modem, and then click **Properties**.
9. Click **Modem**.
10. Clear the check box for **Wait for dial tone before dialing**.
11. Click **OK** twice.

2 Local area networks

Connecting to a local area network (LAN) requires an 8-pin, RJ-45 network cable (not included with the computer). If the network cable contains noise suppression circuitry **(1)**, which prevents interference from TV and radio reception, orient the circuitry end of the cable **(2)** toward the computer.

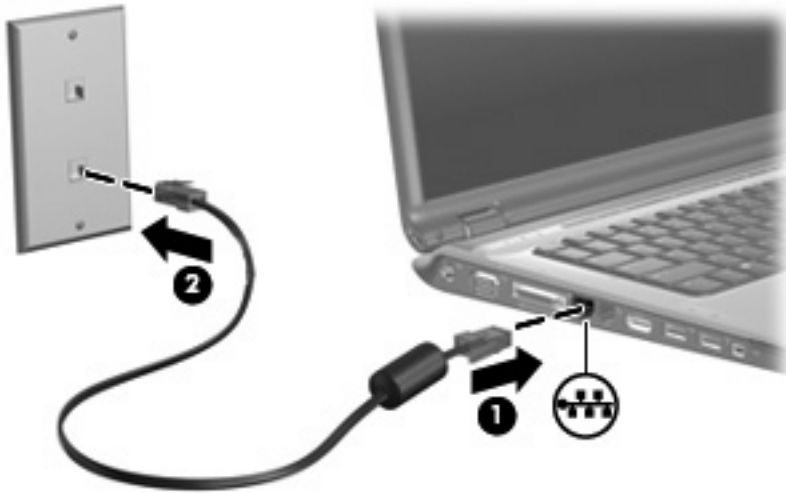


NOTE The computer may look different from the illustrations in this guide. The location of the network jack varies by model.

To connect the network cable:

1. Plug the network cable into the network jack **(1)** on the computer.

2. Plug the other end of the cable into a network wall jack (2).



WARNING! To reduce the risk of electric shock, fire, or damage to the equipment, do not plug a modem or telephone cable into the RJ-45 (network) jack.

Index

C

cable

LAN 8

modem 2

country-specific modem cable

adapter 3

L

local area network (LAN)

cable required 8

connecting cable 8

M

modem cable

connecting 2

country-specific cable

adapter 3

noise suppression circuitry 1

modem software

setting/adding location 4

travel connection problems 6

N

network cable 8

noise suppression circuitry, modem

cable 1

S

software, modem 4

T

troubleshooting modem 6

W

wireless network (WLAN) 8

See *also* local area network

(LAN)

