

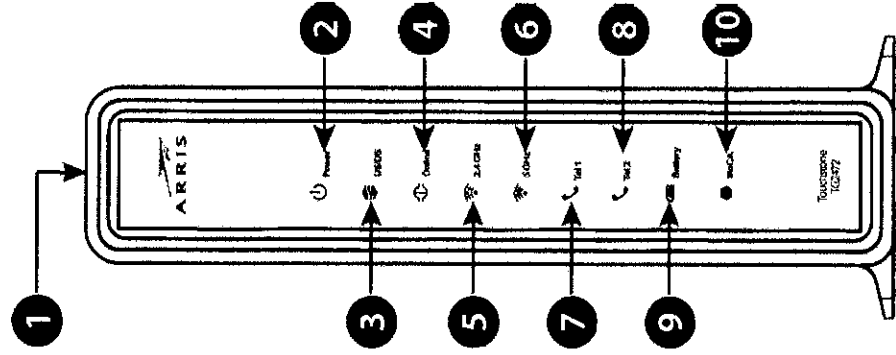
Touchstone TG2472 Telephony Gateway

User Guide

Release 24 STANDARD 1.1 January 2015

Front Panel

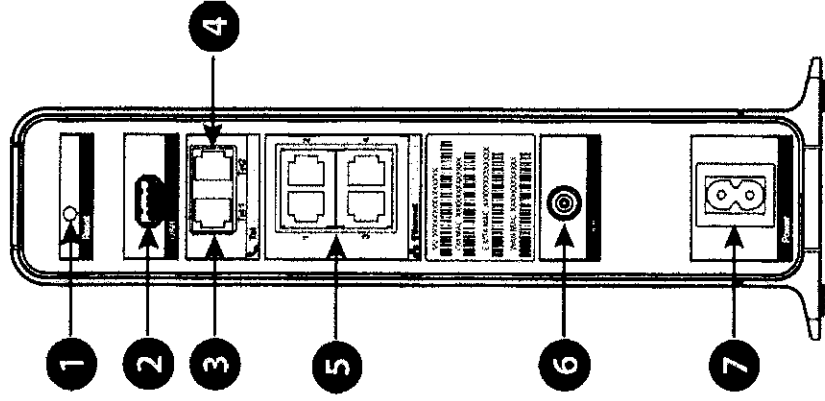
The front of the Telephony Gateway has the following indicators.



1. **WPS Button/LED:** begins associating the Telephony Gateway with a wireless device. LED indicates Wireless Protected Setup (WPS) is active.
2. **Power:** indicates whether AC power is available to the unit.
3. **US/DS:** indicates upstream/downstream connectivity.
4. **Online:** indicates internet data transmission status.
5. **2-4 GHz:** indicates the status of the 2.4 GHz wireless LAN.
6. **5 GHz:** indicates the status of the 5 GHz wireless LAN.
7. **Tel 1:** indicates the status of telephone line 1.
8. **Tel 2:** indicates the status of telephone line 2.
9. **Battery:** indicates the battery status.
10. **MoCA:** indicates connectivity between the Telephony Gateway and other home devices connected via the MoCA network.

Rear Panel

The rear of the Telephony Gateway has the following connectors and controls.



- 1. Reset button:** resets the Telephony Gateway as if you power cycled the unit. Use a pointed non-metallic object to press this button.
- 2. USB:** USB host connector - future support for external USB devices
- 3. Tel 1:** connector for the first phone line.
- 4. Tel 2:** connector for the second phone line.
- 5. Ethernet (1 - 4):** connectors for use with a computer LAN port.
- 6. Cable:** connector for the coaxial cable.
- 7. Power:** connector for the power cord.

Selecting an Installation Location

There are a number of factors to consider when choosing a location to install your Telephony Gateway:

- Is an AC outlet available nearby? For best results, the outlet should not be switched and should be close enough to the Telephony Gateway that extension cords are not required.

- ❑ Is a cable jack available? For best performance, keep the number of splitters between the jack and cable drop to a minimum. Each splitter attenuates (reduces) the signal available to the Telephony Gateway. A large number of splitters can slow down the Internet connection and even affect your telephone service.
- ❑ Can you easily run cables between the Telephony Gateway's location and the phones?
- ❑ If you are connecting devices to the Ethernet ports, can you easily run cables between the Telephony Gateway's location and those devices?
- ❑ If you want to install the Telephony Gateway on a desktop, is there enough space on either side to keep the vents clear? Blocking the vents may cause overheating.
- ❑ How close are your wireless devices? The Telephony Gateway wireless connection range is typically 100–200 feet (30m–65m). A number of factors can affect connection range, as described below.

Desktop Mounting Instructions

Position the Telephony Gateway so that:

- ❑ air flows freely around it
- ❑ the back faces the nearest wall
- ❑ it will not fall to the floor if bumped or moved
- ❑ the ventilation holes on the sides of the unit are not blocked

Factors Affecting Wireless Range

A number of factors can affect the usable range for wireless connections.

Increases range	<ul style="list-style-type: none"> ❑ Raising the unit above the devices (for example, installing the Telephony Gateway in the upper floor of a multi-story dwelling) ❑ Adding a wireless extender to the network
Decreases range	<ul style="list-style-type: none"> ❑ Lowering the unit below the devices (for example, installing the Telephony Gateway in a basement) ❑ Metal or concrete walls between the Telephony Gateway and other devices ❑ Large metal appliances, aquariums, or metal cabinets between the Telephony Gateway and other devices ❑ Interference and RF noise (2.4 GHz wireless phones, microwave ovens, or other wireless networks)



Note: Note that decreasing the range of your wireless network may be beneficial, as long as the decreased range is sufficient for your needs. By limiting your network's range, you reduce interference with other networks and make it harder for unwanted users to find and connect to your network.



Note: Setting the transmit power level to High increases the range. Setting it to Medium or Low decreases the range proportionately.

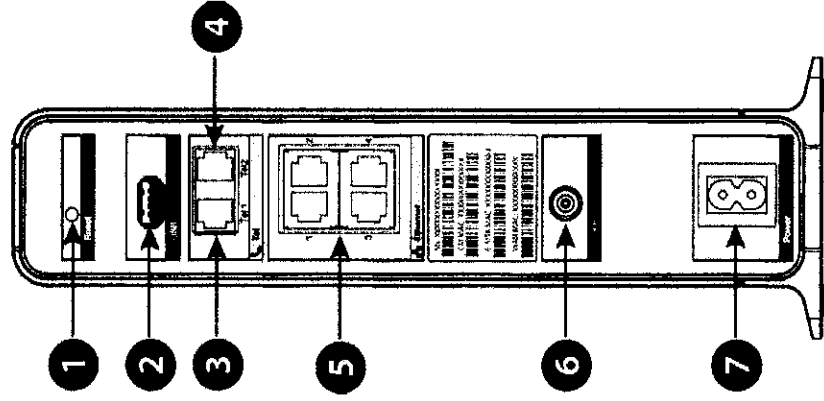
Connecting the Telephony Gateway



WARNING

Risk of injury or equipment damage

Connecting the Telephony Gateway to the home's existing telephone wiring should only be performed by a professional installer. Physical connections to the previous telephone provider must be removed and the wiring must be checked; there must not be any voltage. Cancellation of telephone service is not adequate. Failure to do so may result in loss of service and/or permanent damage to the Telephony Gateway.



1. Connect one end of the coax cable to the cable outlet or splitter, and the other end to the Telephony Gateway's Cable connector (6). Tighten the connections by hand, then tighten an additional 1/8 turn with a wrench.



Note: For best performance, use high-quality coax cable and minimize or eliminate splitters between the cable jack and the Telephony Gateway. If you are using MoCA for your home network, MoCA filters must be installed on any legacy client devices. Your cable company will install these filters for you.

2. Insert the plug from the power cord into the Power connector on the back of the Telephony Gateway (7) and insert the power cord into a convenient AC outlet.

The Power light on the front of the Telephony Gateway lights up, then flashes once (refer to the LED tables shown in Using the Telephony Gateway). See Troubleshooting (page 38) if the Power light does not turn on.

3. Connect one end of the Ethernet cable to any Ethernet port on the back of the Telephony Gateway, (5) and the other end to the Ethernet port on a computer, hub, or broadband router.



Note: If you are connecting to a computer, use the Ethernet cable included in the Telephony Gateway package.

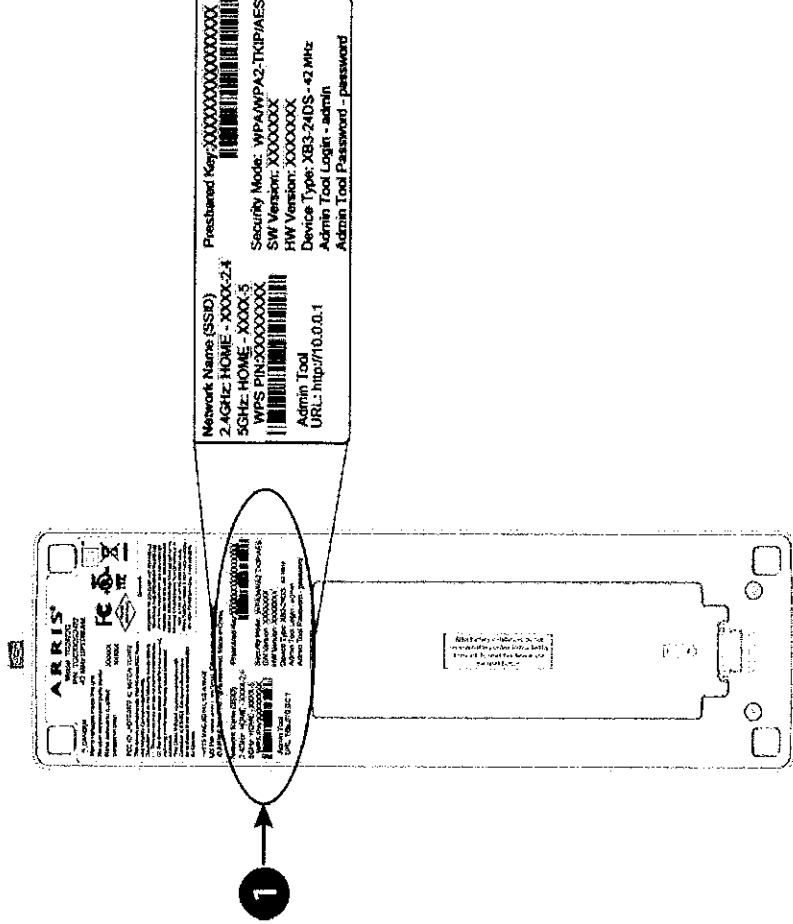
4. Connect one end of the telephone cable to the telephone port on the back of the Telephony Gateway (3 or 4). Connect the other end to the telephone.

Configuring Your Wireless Connection

The TG2472 ships with wireless LAN security set by default. See the security label on your product for the factory security settings.



Note: You must set up your computer and other client devices to work with the security settings on the TG2472. Refer to the documentation for your client device for instructions on setting security. On most computer systems you only need to select the network name (SSID) device and enter the encryption key. If your computer or client device supports Wi-Fi Alliance WPS (Wireless Protected Setup), activate WPS on your computer or client device and the TG2472 simultaneously to easily set up your system security.



1. Security Label

If you need to modify the Telephony Gateway's default wireless security settings, or if you want to configure any other wireless LAN settings, refer to the following instructions.

Accessing the Configuration Interface

Follow these steps to access the configuration interface. You should have already set up the TG2472 as described in *Installing and Connecting your Telephony Gateway* (page 21).

1. If security has been properly set up on your computer to access the wireless LAN on the TG2472, use the connection utility for your operating system to connect to the wireless LAN using its network name (SSID), as shown on the security label.
2. If you cannot access the wireless LAN, you must first establish a wired Ethernet connection between your computer and the TG2472.
3. In your web browser, open the page <http://192.168.0.1/> to access the wireless router setup.

The Login screen displays.



Note: The default user name is “admin”. The default password is “password”, in lower case letters.

4. Enter the user name and password and click the Apply button to log in.
- The System Basic Setup screen displays.*
5. Use the online help information to set configuration parameters as required.



Note: Most configuration parameters that you may want to set can be accessed on the System Basic Setup screen, including the security mode and setting a system password.

Setting Parental Controls

The Parental Control feature allows you to block specified keywords and web sites from being accessed and also to specify trusted computers in the network. Trusted computers are not affected by the parental control settings.

Finding the MAC Address of a Computer

In order to set up trusted computers you must first determine the MAC address of those computers.

Use the operating system of your computer to find its MAC address, as follows:

Windows: from the Start menu, find and select the Control Panel. Double-click Network Connections (Windows XP), or Network & Sharing Center (Windows Vista or Windows 7). Then double-click either “Wireless Network Connection” for a wireless connection, or “Local Area Connection” for an Ethernet connection. Next click the Details button (Windows Vista or Windows 7), or click the Support tab and then the Details button (Windows XP). The “Physical Address” line shows the MAC address.

MacOS X: open *System Preferences* and click the Network icon. To find the Ethernet MAC address, select Built-in Ethernet from the Show drop-down, then click the Ethernet tab. The “Ethernet ID” field shows the MAC address. To find the wireless MAC address, select Airport from the Show drop-down, then click the Airport tab. The “Airport ID” field shows the MAC address.