

## Xfinity TG1682 Telephony Gateway User's Guide



Get ready to experience the Internet's express lane! Whether you're checking out streaming media, downloading new software, checking your email, or talking with friends on the phone, the Xfinity TG1682 Telephony Gateway brings it all to you faster and more reliably. All while providing toll quality Voice over IP telephone service and both wired and wireless connectivity. It also supports a Lithium-Ion battery backup to provide continued telephone service during power outages.

The Xfinity Telephony Gateway provides four Ethernet connections for use as the hub of your home/office Local Area Network (LAN). The Xfinity Telephony Gateway also provides 802.11a/b/g/n wireless connectivity for enhanced mobility and versatility. In addition, the Xfinity Telephony Gateway provides for up to two separate lines of telephone service and Digital Enhanced Cordless Telecommunications (DECT) functionality to allow using cordless telephones within the home. The Telephony Gateway also offers integrated MoCA 2.0 home networking providing Internet access and transfer of multimedia content between devices over coaxial cable in the home.

Installation is simple and your cable company will provide assistance to you for any special requirements. The links below provide more detailed instructions.

[Safety Requirements](#)

[Getting Started](#)

[Battery Installation and Removal](#)

[Installing and Connecting Your Telephony Gateway](#)

[Configuring Your Ethernet Connection](#)

[Using the Telephony Gateway](#)

[Troubleshooting](#)

[Glossary](#)

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**Protected under one or more of the following U.S. patents: 7,031,435. Other patents pending.**

**Release 16 Draft 1.0 February 2014**

## Safety Requirements

These Telephony Gateways comply with the applicable requirements for performance, construction, labeling, and information when used as outlined below:

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### **CAUTION**

#### **Risk of shock**

Mains voltages inside this unit. No user serviceable parts inside. Refer service to qualified personnel only!

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### **CAUTION**

#### **Potential equipment damage Potential loss of service**

Connecting the Telephony Gateway to 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 voltages. 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.

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### **CAUTION**

#### **Risk of explosion**

Replacing the battery with an incorrect type, heating a battery above 75°C, or incinerating a battery, can cause product failure and a risk of fire or battery explosion. Do not dispose of in fire. Recycle or dispose of used batteries responsibly and in accordance with local ordinances.

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- The Telephony Gateway is designed to be connected directly to a telephone.
- Connecting the Telephony Gateway to the home's existing telephone wiring should only be performed by a professional installer.
- Do not use product near water (i.e. wet basement, bathtub, sink or near a swimming pool, etc.), to avoid risk of electrocution.

- Do not use spray cleaners or aerosols on the Telephony Gateway.
- The product shall be cleaned using only a damp, lint-free, cloth. No solvents or cleaning agents shall be used.
- Avoid using and/or connecting the equipment during an electrical storm, to avoid risk of electrocution.
- Do not use the telephone to report a gas leak in the vicinity of the leak.
- Do not locate the equipment within 6 feet (1.9 m) of a flame or ignition source (i.e. heat registers, space heaters, fireplaces, etc.).
- Use only power supply and power cord included with the equipment.
- Equipment should be installed near the power outlet and should be easily accessible.
- The shield of the coaxial cable must be connected to earth (grounded) at the entrance to the building in accordance with applicable national electrical installation codes. In the U.S., this is required by NFPA 70 (National Electrical Code) Article 820. In the European Union and in certain other countries, CATV installation equipotential bonding requirements are specified in IEC 60728-11, *Cable networks for television signals, sound signals and interactive services, Part 11: Safety*. This equipment is intended to be installed in accordance with the requirements of IEC 60728-11 for safe operation.

If the equipment is to be installed in an area serviced by an IT power line network, as is found in many areas of Norway, special attention should be given that the installation is in accordance with IEC 60728-11, in particular Annex B and Figure B.4.

- In areas of high surge events or poor grounding situations and areas prone to lightning strikes, additional surge protection may be required (i.e. PF11VNT3 from American Power Conversion) on the AC, RF, Ethernet and Phone lines.
- When the Telephony Gateway is connected to a local computer through Ethernet cables, the computer must be properly grounded to the building/residence AC ground network. All plug-in cards within the computer must be properly installed and grounded to the computer frame per the manufacturer's specifications.

- Ensure proper ventilation. Position the Telephony Gateway so that air flows freely around it and the ventilation holes on the unit are not blocked.
- Do not mount the Telephony Gateway on surfaces that are sensitive to heat and/or which may be damaged by the heat generated by the modem, its power supply, or other accessories.

## FCC Part 15

This equipment has been tested and found to comply with the requirements for a Class B digital device under Part 15 of the Federal Communications Commission (FCC) rules. These requirements are intended to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**Warning:** Changes or modifications to this equipment not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

### RF Exposure

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 7.9 inches (20cm) between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

# Getting Started

## About Your New Telephony Gateway

The Xfinity TG1682 Telephony Gateway is DOCSIS compliant with the following features:

- **Speed:** much faster than dialup or ISDN service; up to eight times faster than DOCSIS 2.0 cable modems.
- **Convenience:** supports Ethernet and 802.11a/b/g/n wireless connections; both can be used simultaneously
- **Flexibility:** provides two independent lines of telephone service as well as high speed data
- **Compatibility:**
  - **Data services:** DOCSIS 3.0 compliant and backward-compatible with DOCSIS 2.0 or 1.1; supports tiered data services (if offered by your cable company)
  - **Telephony services:** PacketCable™ 1.5 or 1.0 compliant
  - **DECT support for CAT-iq 2.0 compliant DECT 6.0 hardware with multi line calling capabilities**

The TG1682 provides:

- **Wireless 802.11a/b/g/n connectivity**
- **Four Ethernet ports for connections to non-wireless devices**
- **Up to two lines of telephone service with Digital Enhanced Cordless Telecommunications (DECT) functionality**
- **Integrated MoCA 2.0 home networking**
- **DOCSIS 3.0 compliant with Li-Ion backup battery**
- **Two USB host ports (future support for external USB devices)**

## What's in the Box?

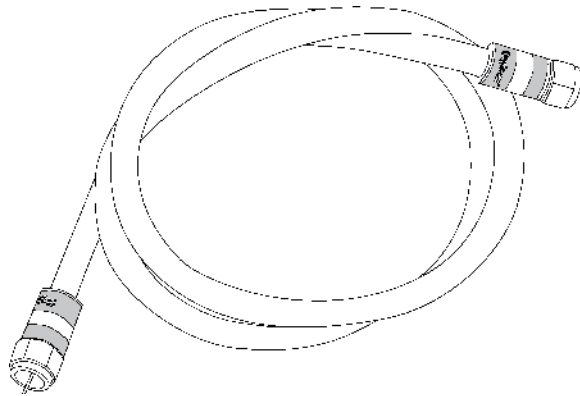
Make sure you have the following items before proceeding. Call your cable company for assistance if anything is missing.

- Telephony Gateway
- Power Cord
- Quick Installation Guide
- End User License Agreement

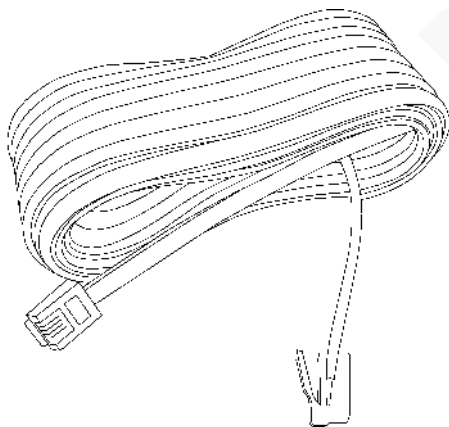
## Items You Need

If you are installing the Telephony Gateway yourself, make sure you have the following items on hand before continuing:

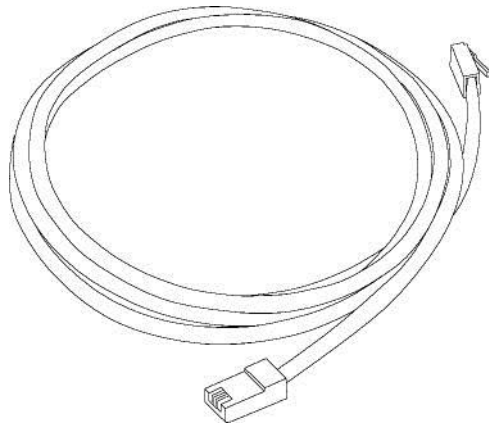
- **Telephony Gateway package:** see [What's in the Box?](#) for a list of items in the package.
- **Coaxial cable (coax):** as shown in the image to the left, this is a round cable with a connector on each end. It is the same kind of wire used to connect to your television for cable TV. You can buy coax from any electronics retailer and many discount stores; make sure it has connectors on both ends. There are two types of connectors, slip-on and screw-on; the screw-on connectors are best for use with your Telephony Gateway. The coax should be long enough to reach from your Telephony Gateway to the nearest cable outlet.
- **Note:** For best performance, use high-quality RG-6 type coax cable and minimize or eliminate splitters between the cable jack and the Telephony Gateway.
- **Phone Cable:** as shown in the image to the left, this is a standard phone cable with standard phone connectors (RJ11 type) on both ends. You can buy phone cables from any electronics retailer and many discount stores.
- **Splitter (optional):** provides an extra cable connection by splitting a single outlet into two. You may need a splitter if you have a TV already connected to the cable outlet that you want to use. You can buy a splitter from any electronics retailer and most discount stores; you may also need a short piece of coax cable (with connectors); use it to connect the splitter to the cable outlet and then connect the Telephony Gateway and TV to the splitter.



**Coax Cable**



**Phone Cable**

**Ethernet Cable**

**Note:** A splitter effectively cuts the signal in half and sends each half to its two outputs. Using several splitters in a line may deteriorate the quality of your television, telephone, and/or internet connection.

- **Ethernet Cable(s):** as shown in the image to the left, this is a Category 5e (CAT5e) straight-through cable for connecting computers to the Gateway.
- **Wall-mount hardware (optional):** if you want to wall-mount your Telephony Gateway, you need to obtain two drywall anchors or wood screws. See the Wall-Mount Template and Instructions for more details.
- **Information packet:** your cable company should furnish you with a packet containing information about your service and how to set it up. Read this information carefully. Contact your cable company if you have any questions.

## Getting Service

Before trying to use your new Telephony Gateway, contact your local cable company to establish an Internet account and telephone service. When you call, have the following information ready:

- the Telephony Gateway serial number and cable MAC addresses of the unit (printed on a sticker on the bottom of the Telephony Gateway)
- the model number of the Telephony Gateway

If the Telephony Gateway was provided by your cable company, they already have the required information.

In addition, you should ask your cable company the following questions:

- Do you have any special system requirements or files that I need to download after I am connected?
- When can I start using my Telephony Gateway?
- Do I need a user ID or password to access the Internet or my e-mail?
- Will my phone number(s) change?
- What new calling features will I have and how do I use them?



## System Requirements

The Telephony Gateway operates with most computers. The following describes requirements for each operating system; see the documentation for your system for details on enabling and configuring networking.

To use the Telephony Gateway, you need DOCSIS high-speed Internet service from your cable company. Telephone service requires that the cable company has Pack-etCable support.

### Recommended Hardware

The following hardware configuration is recommended. Computers not meeting this configuration can still work with the TG1682, but may not be able to make maximum use of TG1682 throughput.

- CPU: P4, 3GHz or faster
- RAM: 1GB or greater
- Hard drive: 7200 RPM or faster
- Ethernet: Gig-E (1000BaseT)

### Windows

Windows XP, Windows Vista, Windows 7, or Windows 8. A supported Ethernet or wireless LAN connection must be available.

### MacOS

System 7.5 to MacOS 9.2 (Open Transport recommended) or MacOS X. A supported Ethernet or wireless LAN connection must be available.

### Linux/other Unix

Hardware drivers, TCP/IP, and DHCP must be enabled in the kernel. A supported Ethernet or wireless LAN connection must be available.

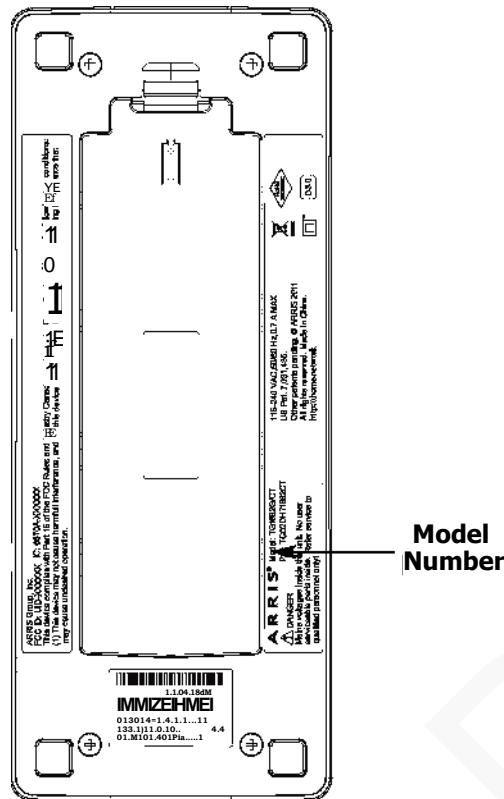
## About this Manual

This manual covers the Xfinity TG1682 Telephony Gateway. The model number is on the label affixed to the bottom of the Telephony Gateway. See the image at the left.

## What About Security?

Having a high-speed, always-on connection to the Internet requires a certain amount of responsibility to other Internet users—including the need to maintain a reasonably secure system. While no system is 100% secure, you can use the following tips to enhance your system's security:

- Keep your operating system updated with the latest security patches. Run the system update utility at least weekly.
- Keep your email program updated with the latest security patches. In addition, avoid opening email containing attachments, or opening files sent through chat rooms, whenever possible.
- Install a virus checker and keep it updated.
- Avoid providing web or file-sharing services over your Telephony Gateway. Besides certain vulnerability problems, most cable companies prohibit running servers on consumer-level accounts and may suspend your account for violating your terms of service.
- Use the cable company's mail servers for sending email.
- Avoid using [proxy](#) software unless you are certain that it is not open for abuse by other Internet users (some are shipped open by default). Criminals can take advantage of open proxies to hide their identity when breaking into other computers or sending spam. If you have an open proxy, your cable company may suspend your account to protect the rest of the network.
- If you use the wireless LAN, make sure you enable wireless security on the Telephony Gateway (for the same reasons that you should run only secured proxies). See [Configuring Your Wireless Connection](#).



## Ethernet or Wireless?

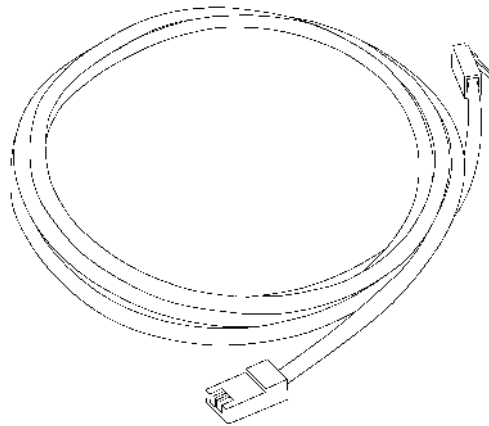
There are two ways to connect your computer (or other equipment) to the Telephony Gateway. The following will help you decide which is best for you:

### Ethernet

Ethernet is a standard method of connecting two or more computers into a Local Area Network (LAN). You can use the Ethernet connection if your computer has built-in Ethernet hardware.

**Note:** To connect more than four computers to the TG1682 through the Ethernet ports, you need an Ethernet hub (available at computer retailers).

The Telephony Gateway comes with one 4-foot (1.2m) Ethernet cable (the connectors look like wide telephone connectors); you can purchase more cables if necessary at a computer retailer. If you are connecting the Telephony Gateway directly to a computer, or to an Ethernet hub or broadband router with a cross-over switch, ask for Category 5e (CAT5e) straight-through cable. CAT5e cable is required for gigabit Ethernet (Gig-E), not regular CAT5 cable.



**Ethernet Cable**

### Wireless

Wireless access lets you connect additional (wireless-capable) devices to Telephony Gateway. The 802.11 wireless LAN standard allows one or more computers to access the TG1682 using a wireless (radio) signal. These connections are in addition to the connections supported via Ethernet.

**Note:** You can use the wireless connection if your computer has a built-in or aftermarket wireless card. To learn more about which wireless hardware works best with your computer, see your computer dealer.

### Both

If you have two or more computers, you can use Ethernet for up to four devices and wireless for the others. To connect five or more computers to the Ethernet ports, you will need an Ethernet hub (available at computer retailers.)

## Battery Installation and Removal

The TG1682 Telephony Gateway supports a Lithium-Ion backup battery to provide backup in the event of a local power loss. The battery backup is not intended to take the place of AC power.

**Note:** For safety and regulatory purposes, batteries are shipped outside of the Telephony Gateway and must be installed.

The TG1682 supports the following battery models:

- Basic backup battery — provides up to 5 hours (black) or 8 hours (grey) of backup time, depending on your Telephony Gateway model and usage. It may be light grey (recommended battery) or black.

[Basic Battery Installation and Replacement](#)

- Extended backup battery — provides up to 12 hours of backup time, depending on model and usage. It has a strap between the battery guides.

[Extended Battery Installation and Replacement](#)

Your cable company may include a backup battery with your Telephony Gateway. **Basic Backup Battery (grey)** You can order

PS- ARCT00777 01  
8.4V 2.2Ah  
32X1630061  
1111111111  
Assembled in Taiwan  
E187242

### Basic Backup Battery (black)



batteries at <http://yourbroadbandstore.com/>

PN: 4120100777 01 8  
45 2Ah  
SN 26053000045  
11111111111111111111  
Assembled in Taiwan  
6187242

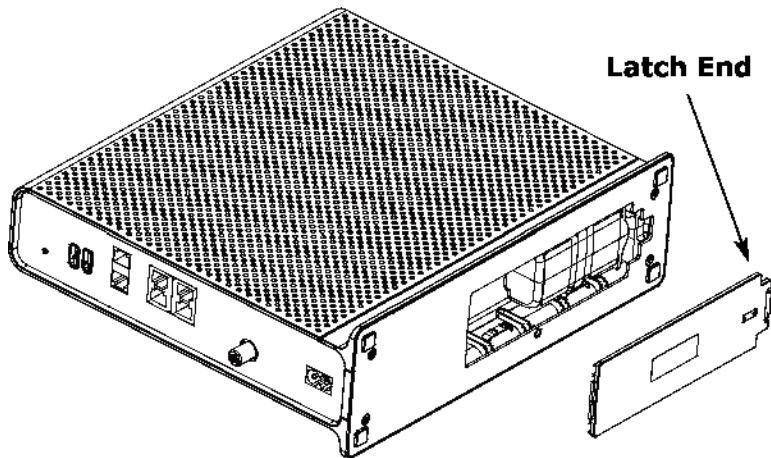
### Extended Backup Battery

## Basic Battery Installation and Replacement

This model of the Telephony Gateway has the ability to provide battery backup in the event of a local power loss. The battery backup is not intended to take the place of AC power.

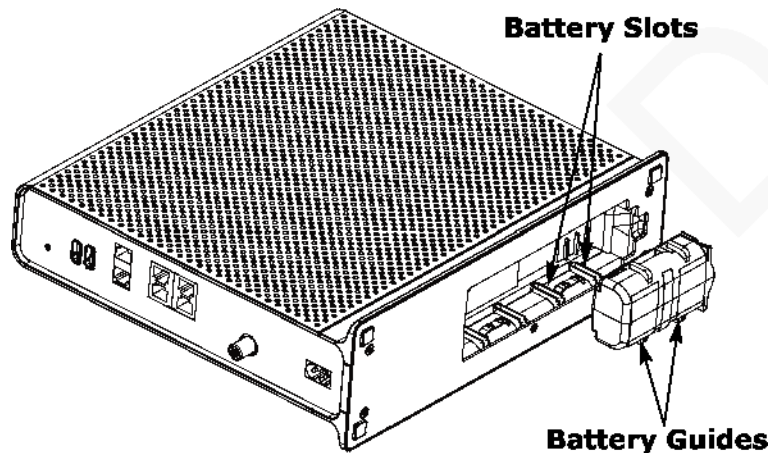
Use this procedure to install and to replace the backup battery.

- 1 Press down and pull back on the latch holding the battery door (on the bottom of the Telephony Gateway). Pull the door toward you. Set the door aside in a safe place.



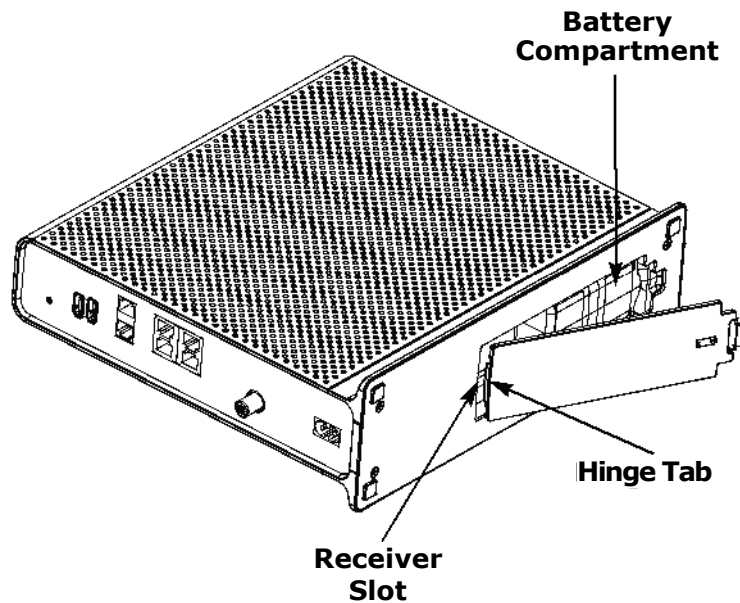
### CAUTION Risk of equipment damage

Improperly inserting the battery may damage the battery connector in the Telephony Gateway. Carefully follow the instructions in the next step to avoid damage.



- 2 Hold the battery pack so that the guides on the battery align with the slots on the Telephony Gateway and slide the battery into the bay. The diagram on the left shows the proper orientation.

**Note:** Batteries will not insert completely into the Telephony Gateway if not oriented correctly. The battery should slide into the bay without significant force. Line up the guides on the battery with the slots in the battery bay.



- 3 Push the battery pack into the bay until it seats into place. **If you are taking the battery out of the Telephony Gateway, position your finger in the battery opening area and use leverage to dislodge the battery while pulling it straight back.**

**Note:** The Telephony Gateway will not begin operating until you apply AC power.

- 4 Replace the door. To do so, place the hinge tab of the battery door into the receiver slot inside the Telephony Gateway battery compartment on the opposite end of the battery opening. Rotate the door toward the unit until the latch snaps back into place.

**Note:** Telephony Gateways use a Lithium-Ion battery pack. Please recycle or dispose of the battery responsibly and in accordance with local ordinances.

## Extended Battery Installation and Replacement

Use this procedure to install or replace the backup battery.

- 1 Press down and pull back on the latch holding the battery door (on the bottom of the Telephony Gateway). Pull the door toward you. Set the door aside in a safe place.

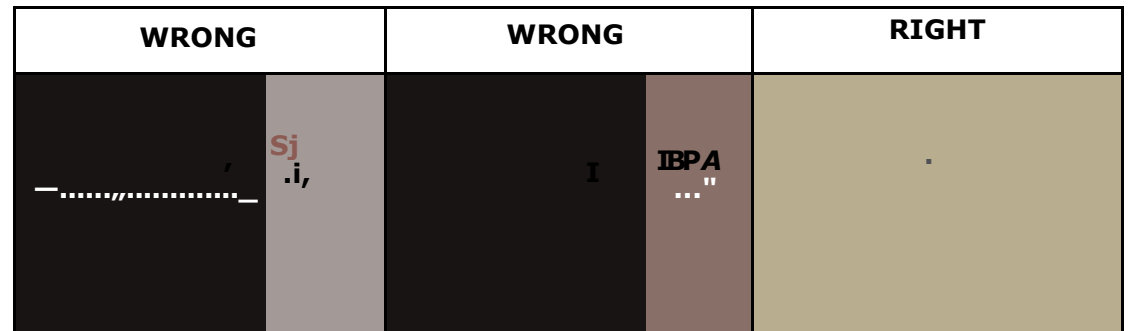


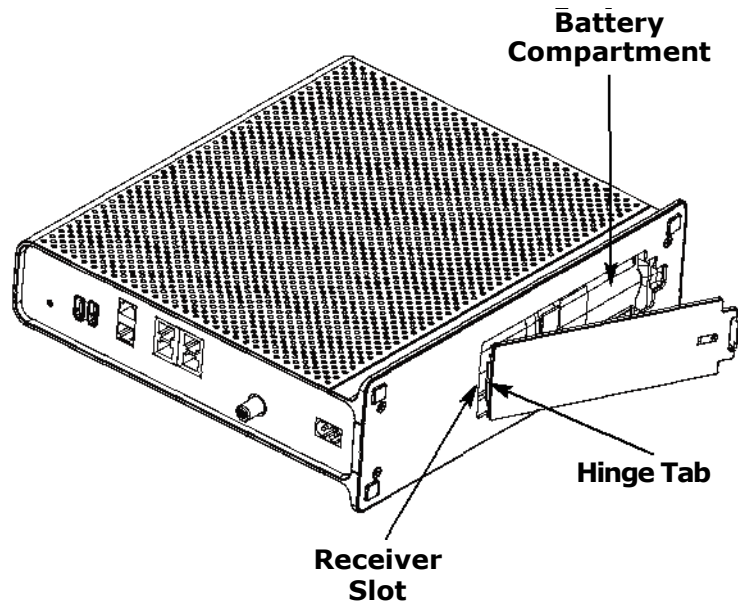
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- 2 **Hold** the battery pack so that the guides on the battery align with the slots on the Telephony Gateway and slide the battery into the bay. The diagram on the left shows the proper orientation.

**Note:** Batteries will not insert completely into the Telephony Gateway if not oriented correctly. The battery should slide into the bay without significant force. Line up the slots in the battery bay with the guides on the battery and apply even pressure on both ends of the battery.





- 3 Push the battery pack into the bay until it latches into place. **If you are taking the battery out of the Telephony Gateway, use the battery pull strap to dislodge the battery.**

**Note:** The Telephony Gateway will not begin operating until you apply AC power.

- 4 Replace the door. To do so, place the tab of the battery door into the slot inside the Telephony Gateway battery compartment. Rotate the door toward the front of the Telephony Gateway until the latch snaps back into place.

**Note:** Telephony Gateways use a Lithium-Ion battery pack. Please recycle or dispose of the battery responsibly and in accordance with local ordinances.



## Installing and Connecting Your Telephony Gateway

Before you start, make sure that:

- You have contacted your cable company and verified that they provide data and telephone service using standard DOCSIS technology.
- You have all the [items you need](#).
- Cable, phone, and power outlets are available near the computer. If a cable outlet is not conveniently located, your cable company can install a new one.

If you have ordered service, your cable company should configure the Telephony Gateway automatically. You need only follow the instructions in this section to install and connect the Telephony Gateway.



### **CAUTION**

#### **Risk of equipment damage**

Only qualified installation technicians should connect the Telephony Gateway to house wiring. Incumbent telephone service must be physically disconnected at the outside interface box before making any connections.

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## 0 Front Panel

0 The front of the Telephony Gateway has the following indicators:

0 **WPS** button with indicator light: indicates Wireless Protected Setup (WPS) is active. (Button with light ring is located on top of unit.)

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**B DECT** button with indicator light: Pressing the button pages all the registered handsets. Pressing again cancels paging. Pressing and holding the button for 15 seconds places the unit in registration mode for handset registration. (Button with light ring is located on top of unit.)

**C Power:** indicates whether AC power is available to the unit.

**D US/DS:** indicates upstream and downstream connectivity.

**E Online:** indicates internet data transmission status.

**2.4 GHz:** indicates the status of the wireless LAN.

**5 GHz:** indicates the status of the 5GHz wireless LAN.

**1:** indicates the status of telephone line 1.

**Tel 2:** indicates the status of telephone line 2.

**Battery:** indicates the battery status.

0 (.1) Power

0 g'er MOS'6

F Online

0 S Online

0 H Tel 2A GHz

I 5 GHz

0 3

0 tee Tel'k

0 Tee-ales

0 attar

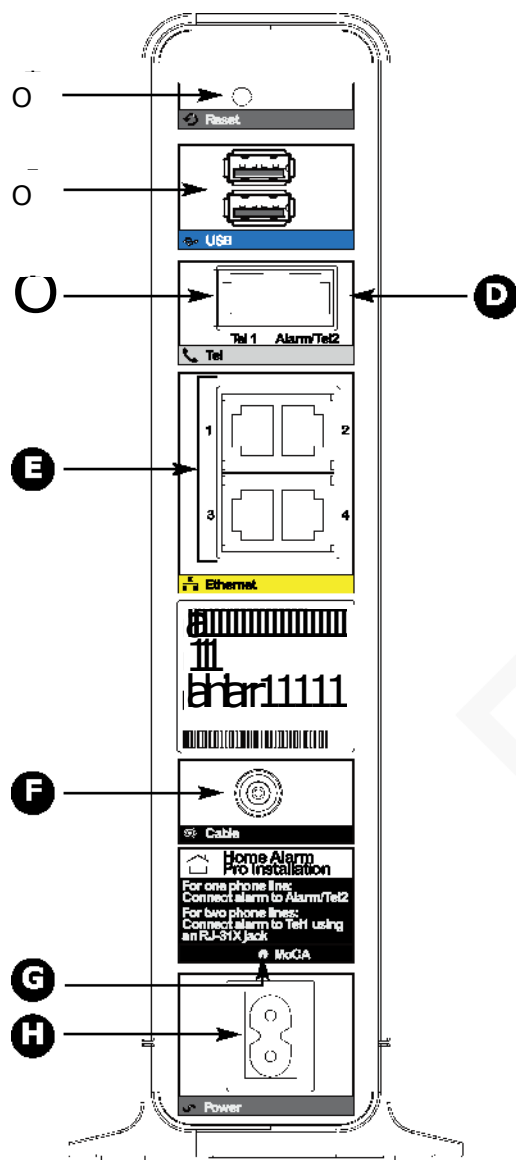
ARMS

TG1682

## Rear Panel

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

- A Reset** button: resets the Telephony Gateway as if you power cycled the unit. Use a pointed non-metallic object to press this button.
- B USB:** USB host connectors - future support for external USB devices
- C Tel 1:** connector for the first phone line.
- D Alarm/Tel 2:** connector for the second phone line and a home alarm connection.
- E Ethernet (1 - 4):** connectors for use with a computer LAN port.
- F Cable:** connector for the coaxial cable.
- G MoCA:** indicates connectivity between the Telephony Gateway and other home devices connected via the MoCA network.
- H 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 side of the unit are not blocked.

### Cleaning Instructions

Clean the Telephony Gateway using only a clean, slightly moistened, cloth. Do not use aerosols in the vicinity of the Telephony Gateway.

### Factors Affecting Wireless Range

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

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

**Note:** 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.

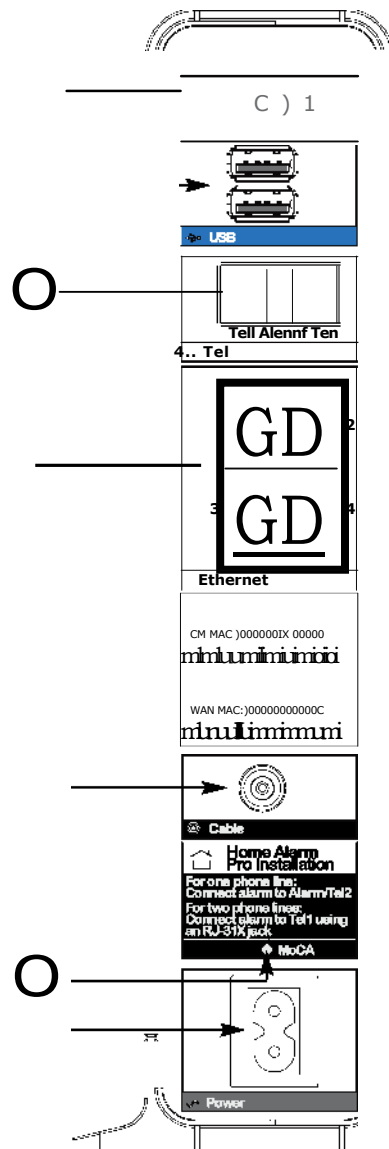
## Connecting the Telephony Gateway



### 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 **(F)**. 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.

- 2 Insert the plug from the power cord into the Power connector on the back of the Telephony Gateway **(H)** 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](#) 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, **(E)** and the other end to the Ethernet port on a computer, hub, or broadband router.

**Note:** If you are connecting to a computer or an Ethernet hub with a crossover switch, use a straight-through cable.

- 4 Connect one end of the telephone cable to the telephone port on the back of the Telephony Gateway **(C or D)**. Connect the other end to the telephone.

### Home Alarm Connection

If you are only using one phone, connect it to Tell **(C)**, then connect your home alarm to Alarm/Te12 **(D)**.

If you are using two phones, connect the first phone and your home alarm to Tell **(C)** using an RJ-31X jack. Connect the second phone to Alarm/Te12 **(D)**.

## Configuring Your Wireless Connection

The TG1682 ships with a basic factory default configuration that should allow you to immediately access the Internet with a wireless connection. If your computer is equipped with a 802.11a/b/g/n wireless LAN card, you may wish to configure the Telephony Gateway's wireless settings. At a minimum, you should configure the security settings.

**Note:** Refer to the separate wireless configuration documentation for complete instructions on configuring your wireless connection.

## Configuring Your Ethernet Connection

If your computer is equipped with a LAN card providing an Ethernet connection, you may have to configure your computer's TCP/IP settings. The steps that follow will guide you through setting your computer's TCP/IP settings to work with the Telephony Gateway.

### Requirements

Make sure you have the following before attempting to configure your Ethernet connection:

- Computer with:
  - one of: Windows XP, Windows Vista, Windows 7, Windows 8, or MacOS X
  - Ethernet interface
- Ethernet cable (supplied)
- IP address, subnet, gateway, and DNS information for installations not using DHCP

### How to use this chapter

The following list shows the procedures for modifying the TCP/IP settings on the computer. The procedure is slightly different depending on the operating system that you are using. Please ensure you are using the correct steps for the operating system on your computer. Follow the links below for instructions to configure your Ethernet connection on your operating system.

- [TCP/IP Configuration for Windows XP](#)
- [TCP/IP Configuration for Windows 7](#)
- [TCP/IP Configuration for MacOS X](#)

**Note:** For **Windows 8** and **Windows Vista**, use the Windows 7 procedure. They are very similar.



## TCP/IP Configuration for Windows XP

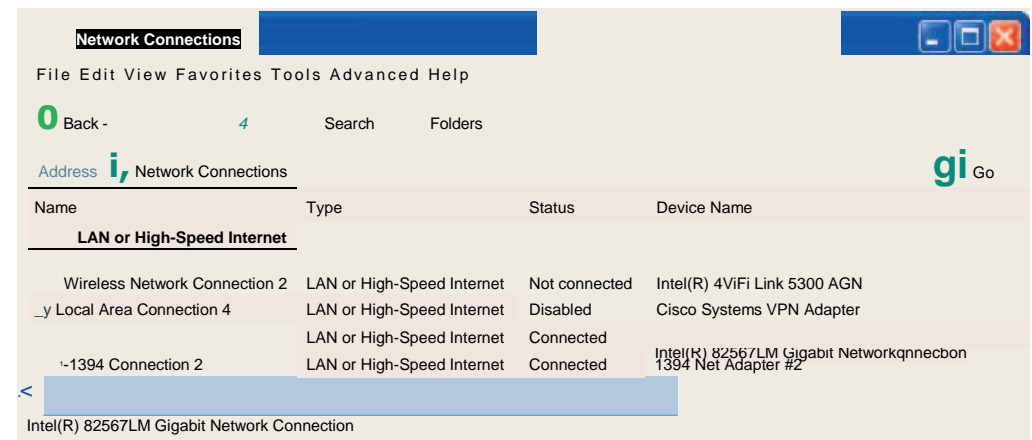
Follow these steps to configure the Ethernet interface on a Windows XP operating system.

**TCP/IPv6 Note:** This procedure shows the configuration of TCP/IPv4. TCP/IPv6 is not installed or enabled by default in Windows XP. If your cable provider requires TCP/IPv6 you must first install and enable it on your Windows XP system. Refer to Microsoft support materials on Windows XP for installation instructions. Once installed and enabled, follow this same configuration example, but select TCP/IPv6 at the appropriate step.

**Note:** Dialog boxes shown on your computer may differ slightly from those shown in this procedure.

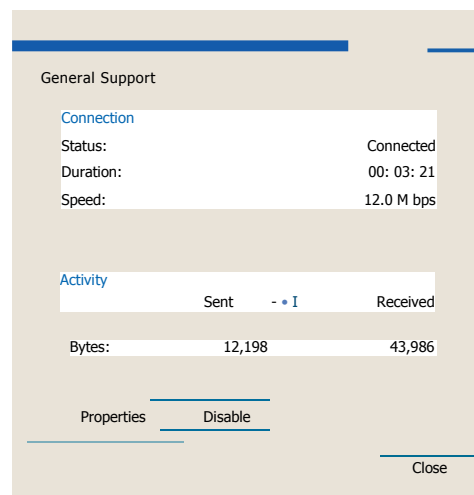
- 1 From the computer, select **Start > Settings > Control Panel** and double-click **Network Connections** in the Control Panel.

*The Network Connection window displays a list of LAN connections and associated network adapters.*



- 2 Double-click the local area connection to be used for your device's network connection.**

*The Local Area Connection Status window displays.*



- 3 Click Properties.**

- 4 Select TCP/IP by clicking it one time. Then click Properties.**

