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Safety Recommendations

Using Equipment Safely

Your Advanced Cable Gateway has been manufactured to meet American safety standards, but care must be taken to ensure proper performance.

It is important that you read this booklet completely, especially the safety instructions below. If you have any doubts about the installation, operation, or safety of the Gateway, please contact your Customer Service.

Avoiding the Risk of Electric Shock

- Disconnect the Gateway from the power source before you connect the Gateway to (or disconnect it from) any other equipment. Avoid any contact with the power source, which can be lethal or cause severe electric shock.
- Do not remove the cover of the Gateway. Should the Gateway fail, contact Customer Service for repair or service.
- Do not insert anything into any opening of the case.
- Do not block the Gateway's ventilation slots; do not place it on unstable surfaces like carpets.
- Do not put anything on the Gateway which might spill or drip into it (e.g. *lighted candles or liquids containers*). Do not splash it with a liquid. If an object or liquid does get inside the Gateway, unplug it immediately and contact Customer Service.
- Do not store the Gateway in excessively hot, cold, or damp conditions. The Gateway is intended to operate at an ambient temperature of less than 113 degrees Fahrenheit (45 degrees Celsius) and a maximum humidity level of 75%.
- In case of a thunderstorm, it is recommended that you unplug the Gateway from the power source and the antenna from the TV set.
- Locate this equipment in such a way that the plug and power source are easily accessible. That way you can disconnect quickly.

Connecting to the Power Supply

- This Gateway is designed to operate at 120VAC, 60Hz.
- If you are in any doubt about the power source, the plug, or connection, please consult Customer Service.

Ensuring optimum performance

- Leave 3 to 4 inches of clearance around the Gateway to ensure proper ventilation to the Gateway.
- Always place Gateway vertically.
- To clean the Gateway, use a dry, clean soft cloth with no cleaning solvent or abrasive products. Clean the ventilation openings regularly.

Environmental Information

- The batteries contain some hazardous substances which pollute the environment. Do not dispose of them with other articles. Take care to dispose of them at special collecting points.

Safety

Technical Specifications

Model Type	ACG905 -- C
Operating Voltage	120V AC / 60 Hz / 0.5A
Typical Power Consumption	25W max
Weight	0.872 lb / 0,395 kg
Dimensions (W x H x D)	7.79 x 7.68 x 3.94 Inch
Operating Temperature Range	59 to 95° F / 15 to 35°C
Storage Temperature Range	- 4 to 158°F / - 20 to 70°C
Remote Control Battery Type	Li-Ion 11.1V 2,150 mAh

FCC Compliance Statement



This device complies with part 15 of the FCC rules. Operation is subject to the following 2 conditions: 1. This device may not cause harmful interference; 2. This device must accept any interference received, including interference that may cause undesired operation. Responsible party (contact for FCC matter only):

THOMSON Inc.
101 W. 103rd St.
Indianapolis, IN 46290 U.S.A.

FCC Radiation Exposure Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment.

Base Station:

This device should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body. This transmitter and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.

Portable Part (Phone):

For hand held operation, this phone has been tested and meets the FCC RF exposure guidelines.

North American Cable Installer

This reminder is provided to call your attention to Article 820-40 of the National Electrical Code (Section 54 of the Canadian Electrical Code, Part 1) which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building as close to the point of cable entry as practical.

Meaning of Symbols



This symbol is intended to alert the user to the presence of un-insulated "dangerous voltage" within the product housing that may be of sufficient magnitude to constitute a risk of shock.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions accompanying the product.

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About your Advanced Cable Gateway

Key Features

Thank you for choosing the ACG905, the new generation of Thomson Gateways with enhanced functionalities. The Advanced Cable Gateway offers the following services:

- Multi-Line Capability, Up to 5 Handsets*
- Access to Voicemail, Address Book, News, Weather and other features via your Handset(s)
- Built-in router functionality for home networking
- WiFi

Main Technical Characteristics

- DOCSIS 2.0 and PacketCable 1.5 Compliant
- Built-in DECT Technology
- Wireless (Add-On PC Card included)
- 2 Ethernet Ports, 1 USB2.0 and 1 RJ11 Telephone Line
- Battery back-up
- Security Through Built-In Firewall and WEP, WPA, WPA2, BPI+ Protocols
- Easy Access to Advanced Diagnostics Web Pages

* Refer to page *yada yada* for information on ordering additional Handsets.

Computer Requirements

For the best possible performance from your Advanced Cable Gateway, your personal computer must meet the following minimum system requirements:

	<i>IBM PC COMPATIBLE</i>	<i>MACINTOSH</i>
CPU	Pentium preferred	Power PC
Operating System	Windows NT/2000/Me/XP/ Vista, Linux	Mac OS 10.4x or higher
Video	VGA or better (SVGA preferred)	VGA or better (SVGA built-in preferred)
Ethernet	10BaseT or 100BaseT	10BaseT or 100BaseT
	An Ethernet card makes it possible for your computer to pass data to and from the internet. You must have an Ethernet card and software drivers installed in your computer. You will also need a standard Ethernet cable to connect the Ethernet card to your Advanced Cable Gateway.	
Software	A TCP/IP network protocol for each machine Microsoft Internet Explorer 6.0 or later or Mozilla Firefox.	

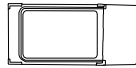
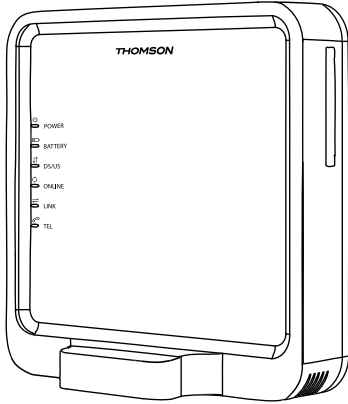
Note: *The minimum requirements may vary among different cable companies.*



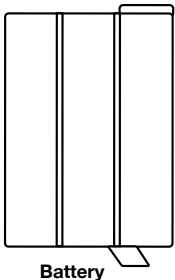
Before You Start

Box Contents

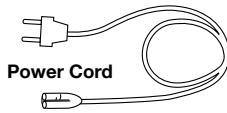
Advanced Cable Gateway



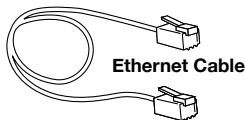
WiFi Card



Battery

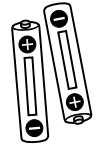
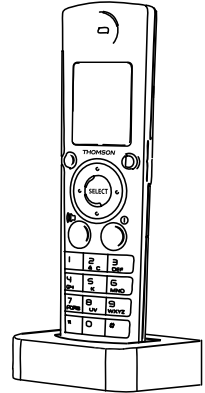


Power Cord

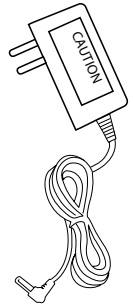


Ethernet Cable

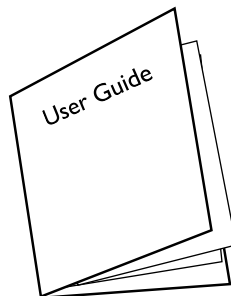
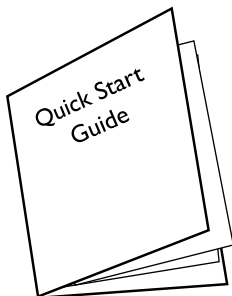
DECT handset TH-58 with Dock



Rechargeable Batteries

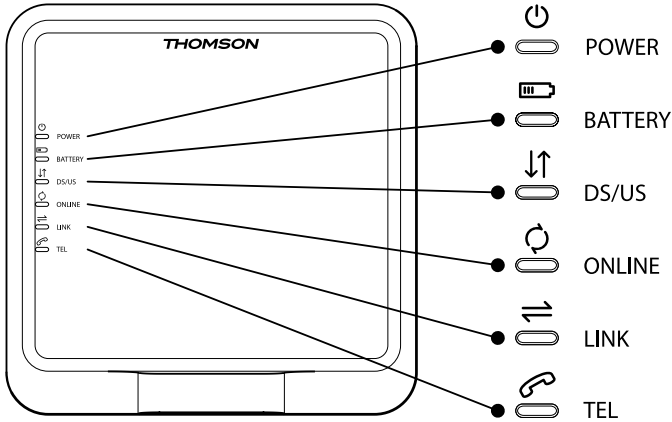








DC adapter for DECT handset



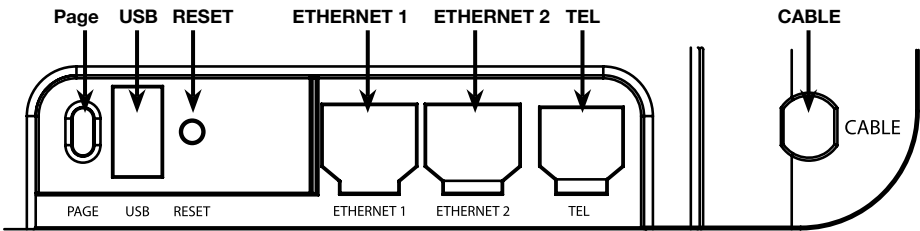
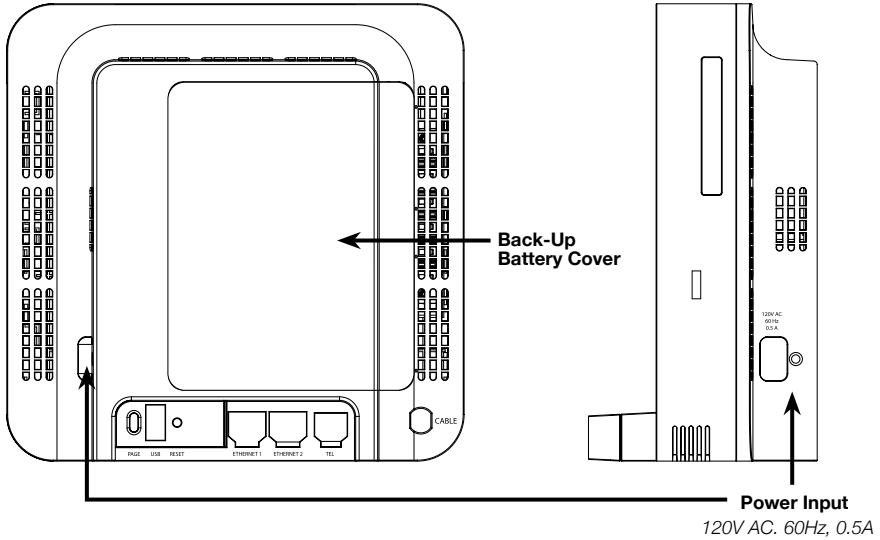
Gateway Overview

Front Panel



	POWER	<i>Power</i>
	BATTERY	<i>Battery Back-Up Level (low / full / empty or no battery detected)</i>
	DS/US	<i>Cable DOCSIS State; LED ON during start-up operation</i>
	ONLINE	<i>Internet Active</i>
	LINK	<i>CPE Activity LED ON when a PC is connected to the Ethernet port</i>
	TEL	<i>Voice Over IP Information</i>

Rear Panel



PAGE To ring **all** connected Handsets (*short press*)
or
 Add another DECT Handset to the Gateway (*press* for more than 12 seconds)
or
 Reset to factory settings (*press* at power off; keep pressing for 5 seconds while powering on the ACG)

USB USB 2.0 Connector (*master*)

RESET Reset (*short press*)

ETHERNET 1 Ethernet 10/100 BaseT RJ-45 Connector

ETHERNET 2 Ethernet 10/100 BaseT RJ-45 Connector

TEL Telephone RJ-11 Connector

CABLE Cable Input; F-Connector

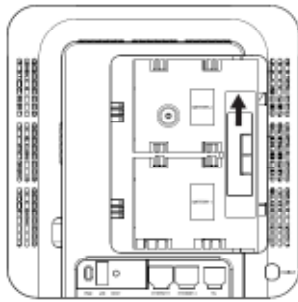
Inserting Batteries

To install batteries into the Advanced Cable Gateway:

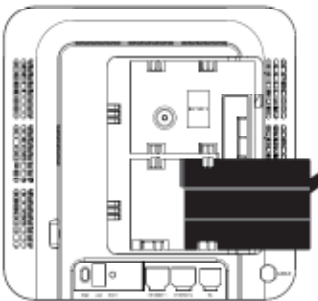


1. Ensure the power cord is unplugged. Remove the battery cover on the rear panel. There are two battery compartments. One battery is included with the Advanced Cable Gateway.

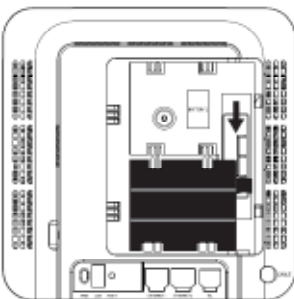
For an additional battery please contact your local operator.



2. Push the slider up/down to allow for battery insertion.




3. Insert the battery into the compartment marked "**Battery 1**".




4. Readjust the slider to prevent the battery from moving and replace the battery cover. Plug the power cord into an electrical outlet that is not controlled by a wall switch (this will assure that the unit has uninterrupted power). The battery will fully charge within **5 hours**.

About Your Handset

In order to understand the key features of your TH58 Handset, it is recommended that you read this guide carefully, including all the safety instructions, before using the product. It is recommended that you inform other members of your family (especially your children) of the detailed warnings given in this guide.

 Caregivers of young children should monitor them at all times in the presence of this product.

In particular, children should never be allowed to put unsuitable or dangerous metal or plastic articles into their mouths.

 As with any radio link, the quality of communication depends on the location of the equipment and the environment in which it is used.

In particular your TH58 Handset must be protected from:

- ◆ excessive heat (radiators, direct sunlight, etc.)
- ◆ vibration
- ◆ dust

Never allow your phone to come into contact with:

- ◆ water
- ◆ aerosols

To reduce the risk of interference and maximize reception, take particular care not to locate the Handset or Dock close to:

- ◆ halogen lamps (and other heat sources)
- ◆ windows
- ◆ large metal objects
- ◆ reinforced concrete
- ◆ televisions
- ◆ music centers
- ◆ fluorescent lighting
- ◆ burglar alarms
- ◆ microwave ovens
- ◆ computers, etc

When your TH58 Handset is connected to the Internet, you may download software updates for the base and handset. Applying these updates and the improvements they contain may slightly modify the menu shown in this User's Guide.

To clean your Handset, use an antistatic cloth.

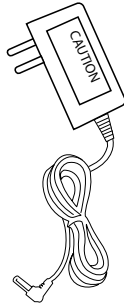
Charging the Handset

The DECT Handset will charge when securely placed in the Handset Dock so long as the dock has power.

The dock can charge your handset in two ways.



DECT Handset
in its Dock



DC Adapter

The DECT Handset dock can be stationed away from the Advanced Cable Gateway.

In this situation, be certain that the DC adapter is attached to both the dock and a power outlet.

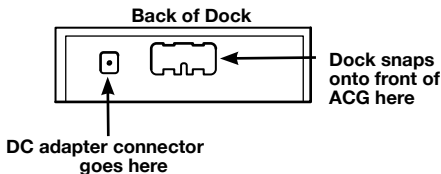
or



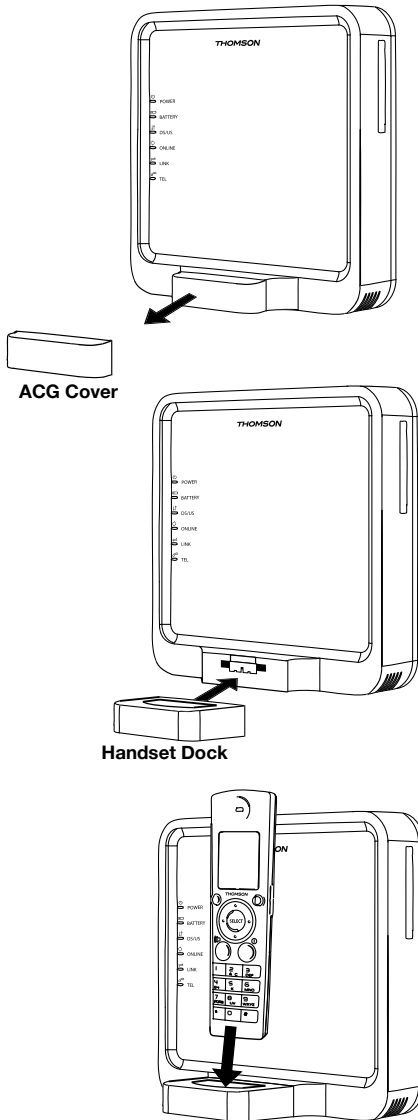
DECT Handset Dock
attached to
ACG

The DECT Handset dock can be plugged into the Advanced Cable Gateway.

In this situation, the Advanced Cable Gateway will be charging your handset.



To plug your DECT Handset Dock on the Gateway, follow the instructions below:



1. Unplug the power cord to the Advanced Cable Gateway.

2. Remove the little ACG Cover on the front panel.

3. Attach the DECT Handset Dock where the cover was.

4. Place the Handset into its receptacle on top of the Dock.

5. Plug the power cord back into an outlet.

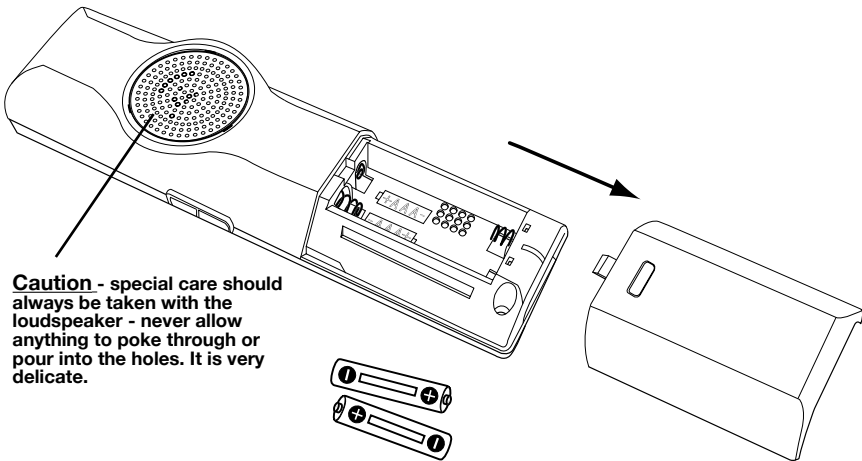


Once installation is complete, you should leave the phone on the charger for at least **5 hours** before using it for calls and browsing content in order to maximize battery performance and life.

Handset

Installing the Handset Batteries

- Slide the battery door off the back of the Handset.
- Insert the batteries (*included*) into the housing in the Handset being careful to align the + / - ends correctly (*refer to the graphics in the housing*).



Caution - special care should always be taken with the loudspeaker - never allow anything to poke through or pour into the holes. It is very delicate.

- Check that the screen lights up, then replace the cover.
- Wait for about 1 minute to allow the system to start up.
- When your handset is registered to its base, the screen displays the number “1” alongside the 📶 (green - has signal) symbol.

Note: Only use **rechargeable** batteries with **exactly** the same specifications as those supplied with the product.



Note: The use of a non-rechargeable or incompatible batteries may damage the product and may be hazardous to health (please refer to “Technical Specifications” on page ??).

Handset Technical Specification

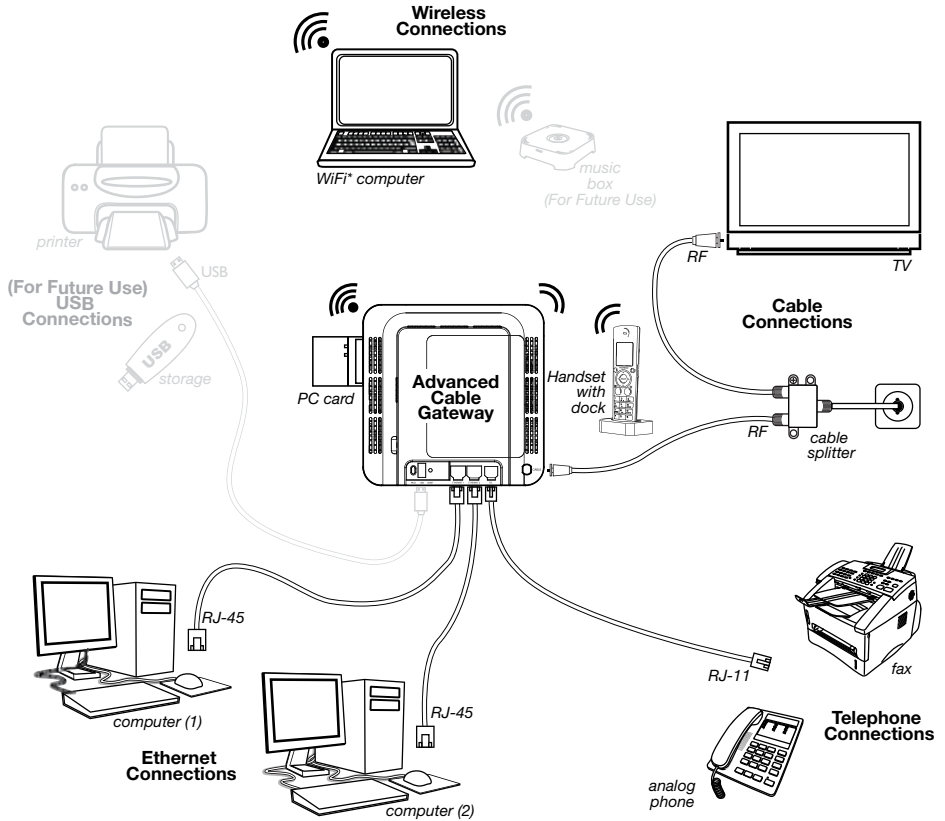
Free Field Range	Up to 984 feet*
Indoor Range	Up to 164 feet*
Number of Handsets	1 supplied The base may be used with up to 5 handsets
Electrical Connection	Powered from charger or direct to handset (<i>black power adapter unit</i>): Input: 100-240V AC 50/60 Hz Output: 5V DC 200 mA
Rechargeable Battery	2 x 1.2V / 750 NIMH rechargeable batteries
Operating Temperature Range	0 - 50°C

* Varies according to environment.

Set-up

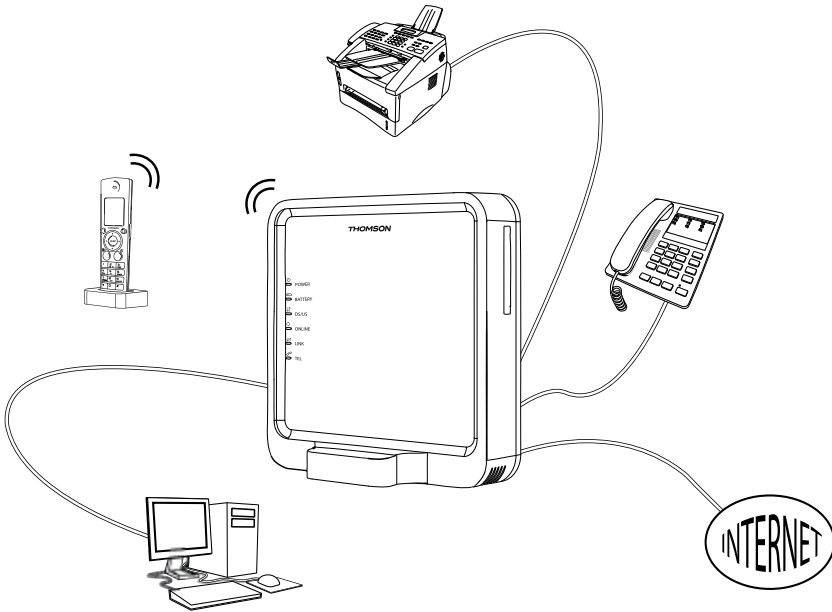
Connecting the Advanced Cable Gateway with other Devices

The Gateway, as illustrated below, has the ability to connect with a wide variety of equipment that you may have including PCs, analog phone, etc...



Connection Between Devices

This illustration shows a cable company that offers DOCSIS- and PacketCable- compliant voice/data services.



1. How Does the Gateway Work?

The Advanced Cable Gateway provides high-speed Internet access as well as cost-effective, telephone voice and fax/modem services for residential subscribers over a CATV (cable TV) infrastructure. It can inter-operate with the PacketCable compliant head end equipment and provide IP-based voice communications. The IP traffic can transfer between the Advanced Cable Gateway and DOCSIS compliant head end equipment. The data security secures upstream and downstream communications.

2. What do you need to enjoy all services?

- **The Right Cable Company:**

Make sure your local cable company provides data services that use cable TV industry-standard DOCSIS compliant and PacketCable compliant technology.

- **Internet/Telephone Service Provider (ISP/TSP):**

Your cable company provides you access to an Internet Service Provider (ISP) and Telephone Service Provider (TSP).

The ISP is your gateway to the Internet and provides you with a pipeline to access Internet content on the World Wide Web (WWW).

The TSP provides you with telephone access to other modems or other telephone services over the Public Switched Telephone Network (PSTN).



Check with your cable company to make sure you have everything you need to begin.

Your cable company will know if you need to install special software or re-configure your computer to make your cable internet service work for you.

3. Establish an Internet Account

You need to contact your cable company to establish an Internet account before you can use your Advance Cable Gateway.

You should have the following information ready (this can be found on the sticker attached to the Gateway):

- The Serial Number
- The Model Number
- The Cable Modem (CM) Media Access Control (MAC) Address
- The Terminal Adapter (EMTA) MAC Address
- SSID, WPA2-PSK Information

Please verify the following with the cable company

- Your internet account has been set up.
(The Media Terminal Adapter will provide data service if the cable account is set up but no telephone service is available.)
- You have a cable outlet near your PC and it is ready for Cable Modem service.

Note: *It is important to supply power to the modem **at all times.***



Keeping your modem plugged in will keep it connected to the Internet.

This means that it will be ready whenever you need it.

Important Information:

Your cable company should always be consulted before installing a new cable outlet.

Do not attempt any rewiring without contacting your cable company first.

Connecting the Advanced Cable Gateway to a Single Computer

This section of the manual explains how to connect your Advanced Cable Gateway to the ethernet port on your computer and install the necessary software.

Please refer to Figure 1 (below) to help you connect your ACG Modem for the best possible connection.

1. Attaching the Cable TV Wire to the Advanced Cable Gateway

Locate the Cable TV wire. You may find it by locating equipment that is connected directly to the Cable TV wire such as:

a TV a Cable TV converter box or a VCR.

The Cable TV line will be connected to the socket which should be labeled:

IN CABLE IN CATV CATV IN, etc.

The line will be coming out from under a baseboard, heater, or other location.

Refer to Figure 1 (below) for the wiring example.

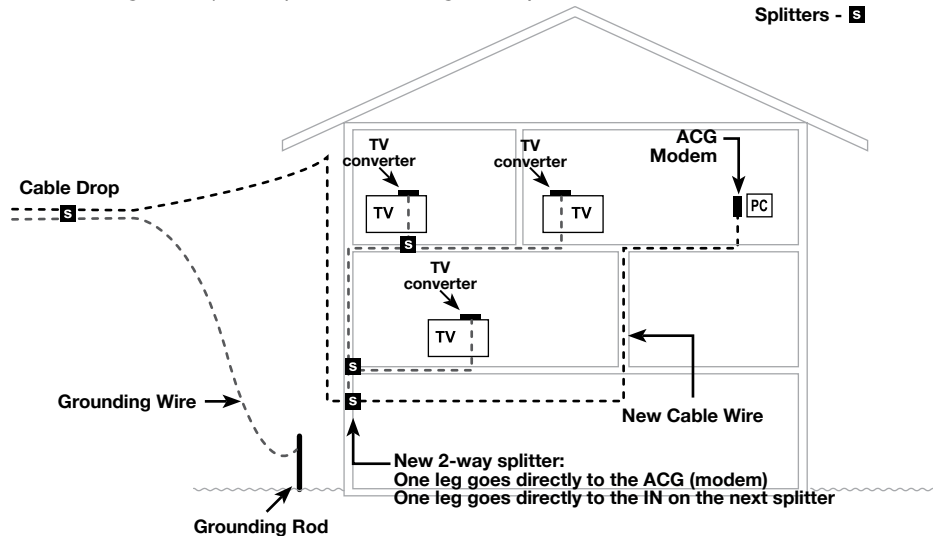


Figure 1



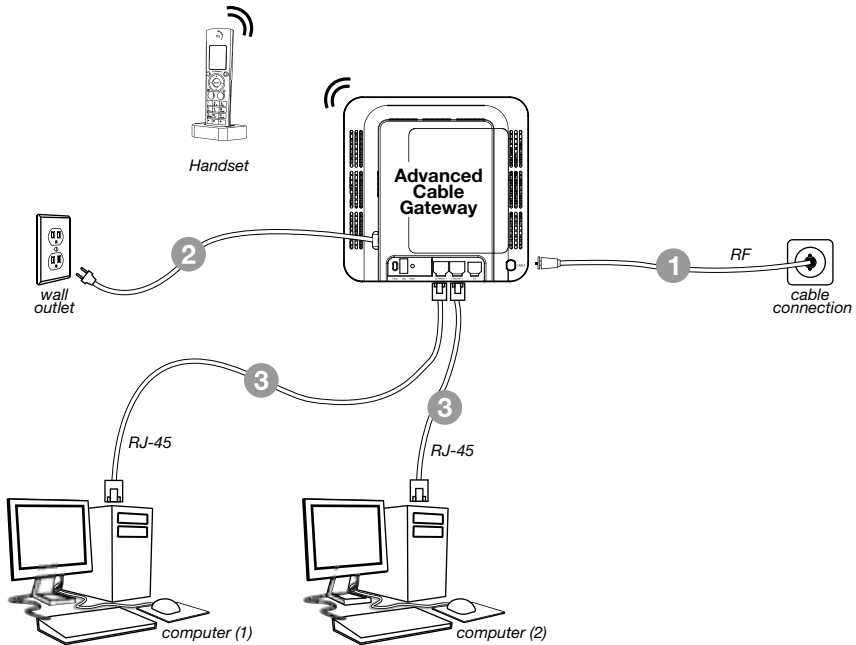
For optimum performance, be sure to connect your Advanced Cable Gateway to the first point the cable enters your home.

The splitter must be rated for at least 1GHz.

Ethernet Connection to One or Two Computers

Make the connections to the modem in the following sequence:

1	Connect one end of the coaxial cable to the cable connection on the wall, and the other end to the CABLE connector on the Advanced Cable Gateway.
2	Connect one end of the power cord into the 120V, 60Hz, 0.5A socket on the Advanced Cable Gateway and the other end into the power plug in the wall.
3	Connect one end of the Ethernet cable (<i>straight-wired, see below</i>) to the Ethernet port on the back of your computer and the other end to the ETHERNET port on the Advanced Cable Gateway. Note: The Gateway is equipped with two Ethernet ports, making additional equipment unnecessary.



Note: Make sure that the Ethernet cable is straight-wired (not “null” or crossover-wired).

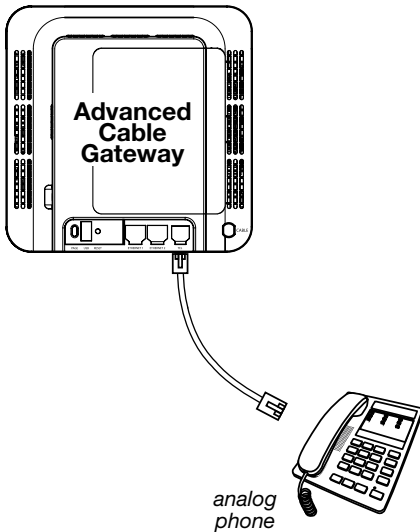
However, you will need a crossover-type cable if you are connecting the Gateway to a hub or a hub within a port switch that provides the same function.

Connecting More Than Two Computers to the Advanced Cable Gateway

If you want to create hard wired connections to the ACG for more than two computers, you will need to purchase a Hub (Switch) for that purpose and the cabling necessary for those additional connections. Although a 10BaseT Hub or Switch can be used, it is not recommended. A 100BaseT Hub or Switch is recommended. Follow the installation guidelines that accompany this equipment.


Telephone or Fax Connection


When properly connected, most telephone devices can be used with the Advanced Cable Gateway. Here is how to make that connection



Connect a standard phone line cord directly from the phone (fax machine, answering machine, caller ID box, etc.) to the TEL port on the Advanced Cable Gateway.

To make a normal telephone call, pick up the handset; listen for a dial tone, then dial the desired number using this new connection. For services such as **call waiting**, use the hook switch (or **FLASH** button) to change calls.

Note: *There is only one TEL connection available on the rear panel of the*
 AGC.

Note: *If you have any questions concerning telephone connection, please*
 contact your service provider.

Activating the Advanced Cable Gateway

After installation of the Advanced Cable Gateway, each time you turn it on (*each time the modem is reconnected to the power*), it goes through several steps before it can be used.

Each of these steps is represented by a different pattern of **flashing lights** on the front of the modem.

If DS/US, ONLINE, and LINK leds flash simultaneously it means the Advanced Cable Gateway is automatically updating its system software. **Please wait for the lights to stop flashing.** You cannot use your modem during this time. Do not remove the power supply or reset the Advanced Cable Gateway during this process.

Lights Guide

Legend

ON	LED is on.	SLOW BLINK	LED is blinking slowly.
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OFF	LED is off.	FAST BLINK	LED is blinking quickly.
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X	LED can be in any state (on, off or blinking).
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LED LABEL		Power	Battery (LED desc. when battery is inserted)	DS/US	ONLINE	LINK	TEL
Boot Up Operation	Power On during 0.25s	OFF	ON	ON	ON	ON	ON
	From Power On to System Synchronization complete	ON	ON	SLOW BLINK	SLOW BLINK	OFF	OFF
	Before DS scanning: during 1s	ON	ON	ON	ON	X*	OFF
DOCSIS Start-Up Operation Note 1	DS scanning & acquiring SYNC	ON	ON	FAST BLINK	OFF	X	OFF
	From SYNC completed, receiving UCD to ranging completed	ON	ON	SLOW BLINK	OFF	X	OFF
	DHCP	ON	ON	ON	FAST BLINK	X	OFF
	config file download	ON	ON	ON	SLOW BLINK	X	OFF
	Registration & BPI initialization	ON	ON	FAST BLINK	FAST BLINK	X	OFF
	Operational (NACO On)	ON	ON	ON	ON	X	OFF
	Operational (NACO Off)	ON	ON	ON	OFF	X	OFF
Telephone	Provisioning	ON	ON	ON	ON	X	FAST BLINK
	Registered	ON	ON	ON	ON	X	ON
	Not available	ON	ON	ON	ON	X	OFF
LAN Active	No Ethernet or WiFi Link	ON	ON	ON	ON	OFF	X
	Ethernet or WiFi Link	ON	ON	ON	ON	ON	X
	Tx/Rx Ethernet or WiFi Traffic	ON	ON	ON	ON	SLOW BLINK	X
	ACG in dect association mode = Page button has been pressed for more than 12s	ON	ON	ON	ON	FAST BLINK	X

Activate

* "X" indicates that this LED is not used to show the state of operation described on this line. Check in this column for the state in which this LED is ON.

Note 1- “Flash” indicates a CM or EMTA initialization process in progress. A “Flash” that does not stop indicates an initialization error.

Note 2- During an AC Power Failure with a bad battery, the operation of the device may not be possible due to lack of battery power; all LEDs may be “Unlit”.

Activating Services

LED LABEL		Power	Battery (LED desc. when battery is inserted)	DS/US	ONLINE	LINK	TEL			
EMTA Normal Operation	AC Power Good	Good Battery	all lines On-Hook	ON	CM Normal Operation	CM Normal Operation	CM Normal Operation	ON		
			1 line or more Off-Hook	ON				SLOW BLINK		
		Low Battery	all lines On-Hook	ON				SLOW BLINK	ON	
			1 line or more Off-Hook	ON						SLOW BLINK
		Bad Battery	all lines On-Hook	ON				OFF NOTE 2	ON	
			1 line or more Off-Hook	ON						SLOW BLINK
	AC Power Failure	Good Battery	all lines On-Hook	FLASH	OFF	OFF	OFF	ON		
			1 line or more Off-Hook	FLASH				SLOW BLINK		
		Low Battery	all lines On-Hook	FLASH	SLOW BLINK			ON		
			1 line or more Off-Hook	FLASH					SLOW BLINK	
		Bad Battery	all lines On-Hook	OFF	OFF NOTE 2			NOTE 2	NOTE 2	NOTE 2
			1 line or more Off-Hook	OFF						
SW Download Operation	During Software download & while updating the FLASH memory	ON	ON	SLOW BLINK	SLOW BLINK	SLOW BLINK	X			
Restore to Factory Settings	ACG is powered off. Press the Page button while powering on the ACG. Hold the page button for 5s	Turn on all LEDs when factory RESET starts								
EMTA Reset (soft Reset)	Upon pressing the Rest button	LEDs behave as if the device is powering up								

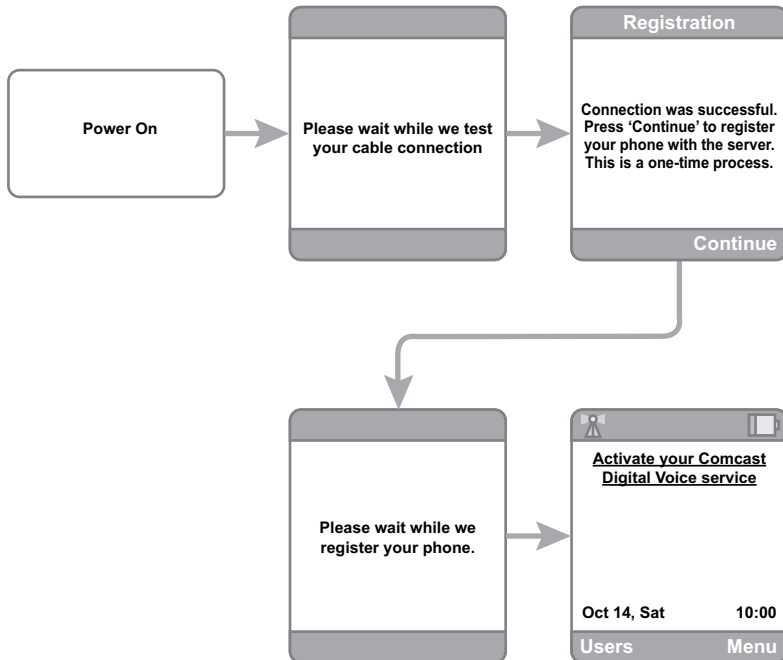
Self Installation

To enjoy all Gateway services (*multi-line capability, access to address book etc...*), you must first set up your Gateway.

To ease the installation, your DECT Handset is programmed with the self installation guide, which will lead you “step-by-step” through the whole installation process.

Starting the Self Installation

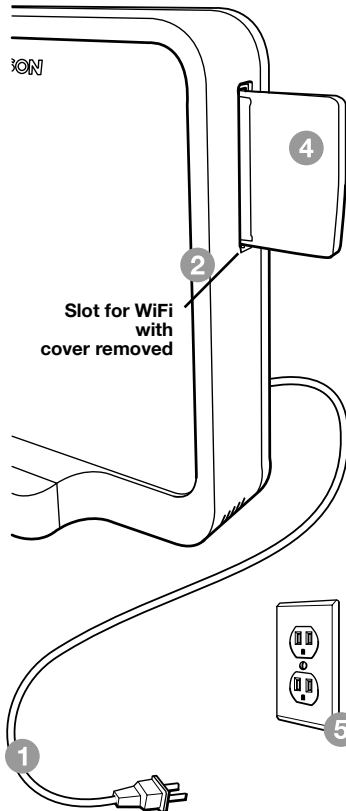
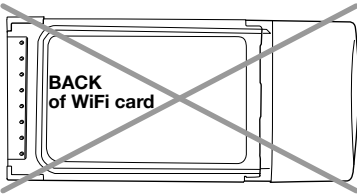
1. Check all connections for the Advanced Cable Gateway and the Handset. Turn the Handset ON.
2. Wait until you see instructions on the Handset.
The standard message flow is described in the figure below.
If you are having troubles with this installation, please refer to the Handset user guide pages **xx to xx**.



3. You are now ready to use the Advanced Cable Gateway. Enjoy!

Wi-Fi Connection

The Advanced Cable Gateway is ready to support Wi-Fi and comes with a card. Follow these instructions for installation:



WARNING: The Gateway **must** be unplugged from the wall socket **before** you attempt to install the WiFi card.

-
- 1 Ensure the power cord is unplugged.

Remove the protective cover over the WiFi slot located on the upper right hand side of the gateway.

- 2



Cover for WiFi slot removed

-
- 3 Make certain that the front of the WiFi card is facing you.

-
- 4 Insert the WiFi card in the slot as far as it will go without forcing it.

-
- 5 Plug the power cord into the wall socket.

Light Indicators on the Front Panel

After the card is inserted and the ACG Gateway is plugged back into the power outlet, you will know that the connection is successful when the **PWR** LED on the front of the Gateway shows a green light.



Also



POWER

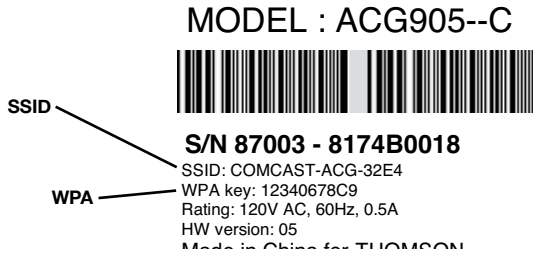
When you first turn the Gateway back on, the **LINK** LED will blink a green light - *fast*; when the card connects to the network successfully, it will blink - *slowly*.



LINK

Wireless Internet Access for Your Computer

WiFi on your Advanced Cable Gateway is preconfigured with a network name (SSID) and WPA key (a security password to prevent others access to your wireless network). This information is printed on the label on the outside of your ACG as shown in the following diagram:



In order to take advantage of the WiFi connection available to you with the Gateway you will need to setup your computer. Setup will be different depending on the year, brand, model and installed software of your computer. Please follow the instructions received with your computer that explain how to connect to a wireless network. If you are using a recent version of Microsoft Windows, one of the following methods may apply (consult your computer/laptop instructions if one of these methods does not work)

Method 1:

- Click on “Wireless” icon in the bottom right hand portion of your screen
- Select, ”View Wireless Networks”
- Highlight “SSID” from the list and press “Connect”
- When prompted, enter the WPA key twice and press “Connect”

Method 2:

- Go to “Start” - “Control Panel” - “Network Connections”
- Double click “Wireless Network Connections”
- Highlight “SSID” from the list and press “Connect”
- When prompted, enter the WPA key twice and press “Connect”

Method 3:

- Go to “Start” - “Network Connections”
- Double click “Wireless Network Connections”
- Highlight “SSID” from the list and press “Connect”
- When prompted, enter the WPA key twice and press “Connect”

Web Configuration

To make sure that you can access the Internet successfully, please check the following:

- Make sure the Ethernet connection between the Advanced Cable Gateway and your computer is OK.

For wireless networking (see page ??), you will need a WiFi-certified wireless client adapter for each computer you want to connect wirelessly.

If your computer does not have WiFi capability, you should equip it with a WiFi accessory (norm 802.11b/g).

Accessing the Web Configuration

The Advanced Cable Gateway (ACG905) offers local management capability through a built in HTTP server and a number of diagnostic and configuration web pages. You can configure the settings by way of the webpage and apply them to the device.

Once your host PC is properly configured; please proceed as follows:

Connect to 192.168.100.1

Thomson

User name: ▼

Password:

Remember my password

OK Cancel

1. Start your web browser and type
http://cable.config/
2. After connecting to the site, you will be asked to enter username and password. By default,
the **Login Name** is: _____
(leave the field blank)
Password is: **admin**

If you log in successfully, the main webpage will appear.