

TCG310 USER MANUAL

SAFETY INSTRUCTIONS AND REGULATORY NOTICES	5
Chapter 1: Connections and Setup	10
Cable Modem Overview	10
Front Panel	10
Rear Panel	12
Bottom Side Panel for TEL	13
Wall Mounting	14
Relationship among the Devices	15
What the Modem Does	15
What the Modem Needs to Do Its Job	15
Contact Your Local Cable Company	16
Connecting the Wireless Voice Gateway to a Single Computer	16
Attaching the Cable TV Wire to the Wireless Voice Gateway	17
Installation procedure for connecting to the Ethernet interface	18
Telephone or Fax Connection	19
Chapter 2: WEB Configuration	20
Accessing the Web Configuration	20
Overview Web Page Group	22
Overview Web Page Group	
	22
Overview	22 23
Overview	22 23 23
Overview Internet Web Page Group Advanced	22 23 23 24
Overview Internet Web Page Group Advanced Port Mapping	22 23 23 24 25
Overview Internet Web Page Group Advanced Port Mapping Parental Control	22 23 23 24 25 26
Overview Internet Web Page Group Advanced Port Mapping Parental Control Firewall	22 23 23 24 25 26 27
Overview Internet Web Page Group Advanced Port Mapping Parental Control Firewall IP Filtering	22 23 23 24 25 26 27 28
Overview Internet Web Page Group Advanced Port Mapping Parental Control Firewall IP Filtering DMZ Host	22 23 23 24 25 26 27 28 29
Overview Internet Web Page Group Advanced Port Mapping Parental Control Firewall IP Filtering DMZ Host Dynamic DNS	22 23 23 24 25 26 27 28 29 30
Overview Internet Web Page Group Advanced Port Mapping Parental Control Firewall IP Filtering DMZ Host DNS Cache	22 23 23 24 25 26 27 28 29 30 31
Overview Internet Web Page Group Advanced Port Mapping Parental Control Firewall IP Filtering DMZ Host Dynamic DNS DNS Cache UPnP	22 23 23 24 25 26 27 28 29 30 31 32

	Wi-Fi Web Page Group	35
	General	35
	WPS	39
	MAC Filter	40
	Reset	41
	Settings Web Page Group	42
	Language	42
	Password	43
	Configuration	44
	LAN	45
	Internet Time	46
	LED	47
	USB Web Page Group	48
	USB Basic	48
	Media Server	49
	CPUS Server	50
	MoCA Web Page Group	51
	MoCA	51
	Status Web Page Group	52
	Status	52
	Voice Status	53
	Upstream	54
	Downstream	55
	Event log	56
	Spectrum Analyzer	57
C	Chapter 3: Additional Information	58
	Frequently Asked Questions	58
	General Troubleshooting	59
	Service Information	60
	Federal Communication Commission Interference Statement	61
	Industry Canada statement:	63
	CAUTION for UL (Check caution label on gift box)	65

SAFETY INSTRUCTIONS AND REGULATORY NOTICES

Product Safety Notice

Before installing or using the product, read these instructions carefully. Be sure to comply strictly precautions.

• Explanation of risk levels

DANGER	This indication is given where there is an immediate danger of death or serious injury if the person in charge or any third party mishandles the machine or does not avoid the dangerous situation when operating or maintaining the machine.
WARNING	This indication is given where there is a potentiality for death or serious injury if the person in charge or any third party mishandles the machine or does not avoid the dangerous situation when operating or maintaining the machine.
CAUTION	This indication is given where there is a danger of medium to minor injury if the person in charge or any third party mishandles the machine or does not avoid the dangerous situation when operating or maintaining the machine.

• Explanation of pictorial warning indications and warning labels

Prohibited	It is used to prohibit its conduct in handling products. Specific prohibited contents are indicated by pictures and sentences in or near the figure symbol.
Caution	It is used to call attention to ignition, electric shock, high temperature, etc. in the handling of products. Specific notes content is indicated by a picture or sentence in or near the figure symbol.
Instruction	Used to force actions based on instructions in the handling of products. Specific instruction content is indicated by a picture or sentence in or near the figure symbol.

LIMITATIONS OF LIABILITY

This equipment has been designed for domestic use inside a building. In some environments or circumstances, the use of wireless devices may be prohibited by the owner of the building or responsible representatives of the organization. If in doubt about the policy applying to the use of wireless devices in an organization where a specific environment (e.g. airports), you should ask for permission to use the device before turn it on. ASKEY assumes no liability for non-compliance with regulations on the installation site, and radio interference created vis-à-vis third parties and due to non-compliance with national regulations for this application.





Do not overload wall outlet or extension cords as this may increase the risk of electric shock or fire. If the power cord is frayed, replace it with a new one.

Instruction



Do not attempt to connect with any computer accessory or electronic product without instructions from qualified service personnel. This may result in risk of electronic shock or fire.





Proper ventilation is necessary to prevent the product overheating. Do not block or cover the slots and openings on the product, which are intended for ventilation and proper operation.

Instruction



Unplug the power plug When the product is expected to be not in use for a period of time, unplug the power cord of the product to prevent it from the damage of storm or sudden increases in rating.



Accidental penetrations of small metal objects (such as pins, paper clips, etc.) disconnect the equipment from the mains as soon as possible (risk of electric shock) and contact your Customer Service to find out how to proceed. Do not reconnect the product as a foreign object has not been eliminated. Unplug the product immediately if you notice it exudes a smell

Unplug the

power plug of burning or smoke. You should never open the unit yourself because you could be electrocuted.



Do not place the product near any source of heat or expose it to direct sunlight.

Prohibited



Water wet prohibition

Do not expose the product to moisture. Never spill any liquid on the product.



Avoid connecting or using this product during a lightning storm. Disturbances transmitted through the grid and / or telephone can cause electric shock in the product and people.





Use only power adapter supplied with the product. This appliance is designed to operate in the rated voltage $90 \sim 100$ VAC.

Instruction



Do not place this product on unstable stand or table.



This product is designed for stationary use in an office or a room in the home for a maximum ambient temperature of 40 $^{\circ}$ C (104 $^{\circ}$ F).

Instruction



To allow the disconnection of the device in case of problems, make sure the base of the outlet you plug the power cord is easily accessible and is located as close as possible to the equipment.



Leave 7cm to 10cm around the appliance to ensure that proper ventilation gets to it.

Instruction



Be sure to connect the ground wire

The screen of the coaxial cable is intended to be connected to earth in the building installation.

Do not attempt to disassemble or open covers of this unit by yourself. Nor should you attempt to service the product by yourself, which may void the user's authority to operate it. Contact gualified service personnel under the following conditions:

1. If the power cord or plug is damaged or frayed.



2.

- If liquid has been spilled into the product. 3. If the product has been exposed to rain or water.
- 4. If the product does not operate normally when the operating instructions are followed.
- 5. If the product has been dropped or the cabinet has been damaged.
- 6. If the product exhibits a distinct change in performance.
- 7. If a cable is damaged or frayed provided.
- 8. If the unit is dropped or damaged in any way.
- 9. If there is a noticeable signs of overheating



Power off and unplug this product from the wall outlet when it is not in use or before cleaning. Pay attention to the temperature of the power adapter. The temperature might be high.

Unplug the power plug

	Do not store the Cable Modem product in excessively hot, cold or damp conditions. Operation Environmental:
	 Operation Temperature: 5°C ~ 40°C
Instruction	 Storage Temperature: -20°C ~ +70°C



To clean the appliance, use a dry, clean soft cloth with no cleaning solvent or abrasive products. Clean the ventilation openings regularly.

Instruction



Under normal use condition the user shall keep at least 20cm from the Cable Modem product.

CHAPTER 1: CONNECTIONS AND SETUP

Cable Modem Overview

Front Panel



Fig. 1-1 Front Panel

POWER	Indicates the power status.		
ONLINE	Displays the status of your cable connection. The light is off when no cable connection is detected and fully lit when the modem has established a connection with the network and data can be transferred.		
ETHERNET Indicates the state of Ethernet ports.			
Wi-FiIndicates the traffic on the wireless network.			
TEL 1 / 2	Indicates the status of the telephone ports.		
MoCA	Indicates the status of the MoCA functionality.		

LED from top to bottom.

LED	Status	Description
POWER	ON	The device is on.
POWER	OFF	The device boot fail or no power.
	ON	The device is ready for use. Now you can link to the internet.
ONLINE	OFF	The device is not link to the internet yet or not registration.
	FLASH	The device is in registration process.
	ON	LAN port is connected to the PC.
ETHERNET	OFF	LAN port is not connected to the PC.
	FLASH	Traffic on the LAN is working.
	ON	Wi-Fi is enabled.
Wi-Fi	OFF	Wi-Fi is disabled.
	FLASH	Wi-Fi traffic is working.
	ON	Phone is ready registration for use.
TEL 1 / 2	OFF	Phone is not able to use.
	FLASH	Phone interface is in registration process.
	ON	MoCA is enabled.
MoCA	OFF	MoCA is disabled.
	FLASH	MoCA traffic is working.

Table 1-1 LED behavior

Rear Panel



Fig. 1-2 Rear Panel

Slot	Description
WPS	Enables scanning for available WPS client device
USB	USB 3.0 host connector (software upgrade only)
RESET	Reset/Reboot this Cable modem
LAN 1 / 2 / 3 / 4	Ethernet 10/100/1000 Base-T RJ-45 connector
CABLE RF	F-Connector
12VDC	12V DC-IN Power connector.

Table 1-2 Rear Panel description

Bottom Side Panel for TEL



Fig. 1-3 Bottom Side Panel

The TEL 1 / 2 on the Bottom Side panel of TCG310, you can use telephony RJ-11 Connector.

Wall Mounting

The number of the screw 2 pcs.

Direction for wall mounting: Tuner downward or leftward or rightward.

Dimension for the screw: diameter: 3.5 mm; length: 30 mm.

There are 2 slots on the side of the CABLE MODEM that can be used for wall mounting.

Note: When wall mounting the unit. Ensure that it is within reach of the power outlet.



Fig. 1-4 Wall Mounting

To do this:

- 1. For the cable modem, ensure that the wall you use is smooth, flat, dry and sturdy and use the 2 screws holes.
- 2. The unit can be to use solid concrete wall and/or hard wood wall.

Relationship among the Devices

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



What the Modem Does

The Wireless Voice Gateway provides high-speed Internet access as well as cost-effective, tollquality telephone voice and fax/modem services over residential, commercial, and education subscribers on public and private networks via an existing CATV infrastructure. It can interoperate with the PacketCable compliant head-end equipment and provide the IP-based voice communications. The IP traffic can transfer between the Wireless Voice Gateway and DOCSIS/Euro-DOCSIS compliant head-end equipment. The data security secures upstream and downstream communications.

What the Modem Needs to Do Its Job

- The Right Cable Company: Make sure your local cable company provides data services that use cable TV industry-standard DOCSIS/Euro-DOCSIS compliant and PacketCable/Euro-PacketCable compliant technology.
- The Internet/Telephony Service Provider (ISP/TSP): Your cable company provides you access to an Internet Service Provider (ISP) and Telephony 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 telephony access to other modems or other telephony services over the Public Switched Telephone Network (PSTN).

Check with your cable company to make sure you have everything you need to begin; they'll know if you need to install special software or re-configure your computer to make your cable internet service work for you.

Contact Your Local Cable Company

You will need to contact your cable company to establish an Internet account before you can use your gateway. You should have the following information ready (which you will find on the sticker on the gateway):

- The serial number
- The model number
- The Cable Modem (CM) Media Access Control (MAC) address
- The Terminal Adapter (EMTA) MAC address
- Security information: Service Set Identifier (SSID), Encryption key / passphrase (WPA2-PSK by default), channel number. Default values are indicated underneath the modem on the sticker.

Please check the following with the cable company

- The cable service to your home supports DOCSIS/Euro-DOCSIS compliant two-way modem access.
- Your internet account has been set up. (The Media Terminal Adapter will provide data service if the cable account is set up but no telephony 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 always be ready whenever you need.

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.

Please verify the following on the Wireless Voice Gateway

The Power LED should be lighted when plug-in the power supply.

Connecting the Wireless Voice Gateway to a Single Computer

This section of the manual explains how to connect your Wireless Voice Gateway to the Ethernet port on your computer and install the necessary software. Please refer to Figure 1-7 to help you connect your Digital Cable Modem for the best possible connection.

Attaching the Cable TV Wire to the Wireless Voice Gateway

- 1. Locate the Cable TV wire. You may find it one of three ways:
 - a. Connected directly to a TV, a Cable TV converter box, or VCR. The line will be connected to the jack, which should be labeled either IN, CABLE IN, CATV, CATV IN, etc.
 - b. Connected to a wall-mounted cable outlet.
 - c. Coming out from under a baseboard heater or other location. See Figure 1-6 for the wiring example.

Notes: For optimum performance, be sure to connect your Wireless Voice Gateway to the first point the cable enters your home. The splitter must be rated for at least 1GHz.





Installation procedure for connecting to the Ethernet interface

Follow these steps for proper installation. (Please refer to Fig. 1-7)

Plug the coaxial cable to the cable wall outlet and the other end to the modem's cable connector.

Note: To ensure a fast registration of the modem, the coaxial cable must be connected to the modem before it is powered on.

Plug the power adapter into the socket of the cable modem and two-pin plug in the AC outlet to power on the modem.

Note: Only use the power adapter that comes with the modem. Using another power adapter can cause damage to the product, and will void the warranty.

Connect an Ethernet cable (direct connection, see below) to the Ethernet port at the back of the computer, and the other end to the ETHERNET port on the rear panel of the cable modem. The modem will seek the appropriate cable signal on the cable television network and go through the initial registration process on its own. The modem is ready for data transfer after the green LED "ONLINE" is lit continuously.

Note: the button "RESET" at the back of the modem is used primarily for maintenance.



Fig. 1-7 Connect to the Modem

Telephone or Fax Connection

When properly connected, most telephony devices can be used with the Wireless Voice Gateway just as with a conventional telephone service. To make a normal telephone call, pick up the handset; listen for a dial tone, then dial the desired number. For services such as call waiting, use the hook switch (or FLASH button) to change calls. The following procedures describe some of the possible connection schemes for using telephony devices with the Wireless Voice Gateway.

- 1. Connect a standard phone line cord directly from the phone (fax machine, answering machine, caller ID box, etc.) to one of the TEL jacks on the Wireless Voice Gateway.
- 2. If there is a phone line in your home which is NOT connected to another telephone service provider, connect a standard phone line cord from a jack on this line to one of the TEL jacks of the Wireless Voice Gateway. Connect a standard phone line cord directly from the phone (fax machine, answering machine, caller ID box, etc.) to one of the other jacks in the house that uses that line.
- 3. If you have a multi-line telephone, connect a standard phone line cord (not an RJ-14 type line cord) from the phone to the TEL jacks on the Wireless Voice Gateway. (Other phones can be added to each line by using standard phone line splitters.)

CHAPTER 2: WEB CONFIGURATION

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

- 1. Make sure the connection (through Ethernet) between the Wireless Voice Gateway and your computer is OK.
- 2. Make sure the TCP/IP protocol is set properly.
- 3. Subscribe to a Cable Company.

Accessing the Web Configuration

The **Wireless Voice Gateway** offers local management capability through a built-in HTTP server and a number of diagnostic and configuration web pages. You can configure the settings on the web page and apply them to the device.

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

- 1. Start your web browser and type the private IP address of the Wireless Voice Gateway on the URL field: **192.168.100.1**
- 2. After connecting to the device, you will be prompted to enter username and password. By default, the username is "**user**" and password is "**user**".

		Enter your username and pa settings.	ssword to access your configurat
4	4	Usemame	Log In
	andres inter attention		
	- (



Note: If forget your username and password, you may Press "Reset" button on the rear panel more than 5seconds to restore the username and password to default.

If you login successfully, the main page will appear.

You can change the display language to "English", "Suomi", "中文", "Deutsche", "Nederlands", "Francais" or "日本語" on the top of the page.



Fig. 2-2 Switch Language

Overview Web Page Group

Overview

The Overview page is the start page. You could switch to other pages. (e.g., Internet, Wi-Fi, Setting, USB, MoCA, Status)

This page display Wi-Fi, ETHERNET and VoIP connection status. You could click the icons



Fig.2-3 Overview

Internet Web Page Group

Advanced

This page allows you to enable/disable some advanced features of the Wireless Voice Gateway.

Overview	Internet	WiFi	Setting	USB	MoCA	Status
Overview	internet	WII I	Setting	030	MOCA	Status
Adv	vanced	Advance	d			
Port Ma	anning	This page allows config	and the second se	eatures of the broad	band gateway.	
Parental C	ontrol					
Fi	irewall	Options				
IP Fil	Itering	WAN Blocking				OFF
DM	Z Host	Ipsec Pass Thre	ough			ON
Dynami	c DNS	PPTP Pass Thr	ough			ON
DNS	Cache					
	UPnP					
RIP	Setup				Apply	Cancel
	ostics					
Didili	03103					

Fig.2-4 Internet\Advanced

- **WAN Blocking** prevents others on the WAN side from being able to ping your gateway. With WAN Blocking enabled, your gateway will not respond to pings it receives, effectively "hiding" your gateway.
- **Ipsec PassThrough** enables IpSec type packets to pass WAN ⇔ LAN. IpSec (IP Security) is a security mechanism used in Virtual Private Networks (VPNs).
- **PPTP PassThrough** enables PPTP type packets to pass WAN ⇔ LAN. PPTP (Point to Point Tunneling Protocol) is another mechanism sometimes used in VPNs.

Port Mapping

This page allows configuration of Port Forwarding and Port Triggering.

Overview	Internet	WiFi	Setting	USB	MoCA	Status
Ad	lvanced	Port Map	ping			
Port N Parental	Mapping	Port mapping allows rer		o connect to a specific	c device within a private	LAN.
	Firewall	Port Forwardin	g			
IP F	iltering	Service Name	LAN IP	Protocol Private Por	rt Public Port	
DN	/IZ Host		No	port forwarding rule d	lefined	
Dynan	nic DNS					+
DNS	6 Cache					
DI	UPnP P Setup	Port Triggering				
	nostics	Application Name	Trigger Port	Protocol Open p	port	
IAC base Passt			No	port triggering rule de	efined	
						+
					Apply	Cancel

Fig.2-5 Internet\Port Mapping

- Port Forwarding For LAN ⇔ WAN communications, the gateway normally only allows you to originate an IP connection with a PC on the WAN; it will ignore attempts of the WAN PC to originate a connection onto your PC. This protects you from malicious attacks from outsiders. However, sometimes you may wish for anyone outside to be able to originate a connection to a particular PC on your LAN if the destination port (application) matches one you specify.
- **Port Triggering** Some Internet activities, such as interactive gaming, require that a PC on the WAN side of your gateway be able to originate connections during the game with your game playing PC on the LAN side. Port triggering is an elegant mechanism that does this work for you, each time you play the game.

Parental Control

This page allows you to set the time limit for a client's network usage.

Overview	Internet	WiFi	Setting	USB	MoCA	Status
Ad	vanced	Parental (Control			
Port M	anning	lock access of LAN Con	er geste dieser of de	according to thei	r MACs.	
Parental (Control					
F	irewall	Access Control				
IP F	iltering	Access Control				ON
DN	IZ Host	Rule Name	Days Of Wee	ək	From To	
Dynam	ic DNS		1	Vo rules set.		
DNS	Cache					
	UPnP					+
RIF	Setup					
Diag	nostics				Apply	Cancel

Fig.2-6 Internet\Parental Control

Firewall

This page allows you to enable/disable, and you can choose "**Off**", "**Low**", "**Medium**", "**High**" firewall protection.

The **Low** setting does not block any services/ports, however it does protect against invalid packets and well known attacks. The **Medium** setting will cause the firewall to drop a packet unless it is on a specific port of allowed services. The **High** setting is similar to medium, but allows access to even fewer services. The **Off** setting allows all traffic to pass.

Overview	Internet	WiFi	Setting	USB	MoCA	Status
	vanced	-irewall				
Parental (Control	Firewall Setting	s			
F	Firewall	IPv4 Firewall Pro	tection		Low	Ŧ
IP F	iltering	IPv6 Firewall Pro	tection			ON
DN	IZ Host					
Dynam	ic DNS	Allowed Service	15			
DNS	i Cache					
	UPnP	No Ports Restric	cted, Only have DoS	Protection		
RIF	o Setup					
Diag	nostics				Save	Cancel
AC base Passt	brough					

Fig.2-7 Internet\Firewall

IP Filtering

This page enables you to enter the IP address ranges of PCs on your LAN that you don't want to have outbound access to the WAN. These PCs can still communicate with each other on your LAN, but packets they send to WAN addresses are blocked by the gateway.

Overview	Internet	WiFi	Setting	USB	MoCA	Status
	vanced lapping Control	IP Filterin This page allows config network devices on the	uration of IP address	filters in order to blo	ick internet traffic to s	specific
F	irewall	IP Filtering				
IP F	iltering <	Start Address	End Address			
DN	IZ Host	otarradicoo	Line Address	No rules set.		
Dynam	ic DNS			no raico occ.		
DNS	Cache					+
	UPnP					
RIF	9 Setup				Apply	Cancel
Diag	nostics					

Fig.2-8 Internet\IP Filtering

DMZ Host

Use this page to designate one PC on your LAN that should be left accessible to all PCs from the WAN side, for all ports. e.g., if you put an HTTP server on this machine, anyone will be able to access that HTTP server by using your gateway IP address as the destination.



Fig.2-9 Internet\DMZ Host

Dynamic DNS

		WiFi	Setting	USB	MoCA	Status
	46					
Adva	nced	DynDNS				
Port Map	oping	This page allows setup	of Dynamic DNS serv	ice.		
Parental Co Fir	ewall	Dynamic DNS			1	ON
IP Filt	ering	Provider			DynDNS.org	•
DMZ	Host	Domain Name Account / Email				
Dynamic	DNS <	Password				
DNS C	ache				b je	
ι	JPnP					
RIPS	Setup				Apply	Cancel

DNIC

Fig.2-10 Internet\Dynamic DNS

- **Dynamic DNS-** Turn "ON" to enable the dynamic DNS function.
- **Provider-** Choose Provider to enable the basic setting.
- **Domain Name-** The domain name that you registered with your DDNS provider. •
- Account / Email- The account that is registered with your DDNS provider.
- **Password-** The password that you registered with your DDNS provider • Click **Apply** to save the changes.

DNS Cache

This page allows configuration static DNS in DNS proxy mode. Enter the domain name in plain format (Ex. mydomain.com)

Overview	Internet	WiFi	Setting	USB	MoCA	Status
Adv Port M	vanced apping	DNS Cac This page allows config format (Ex. mydomain.	juration static dns in o	dns proxy mode.Ente	r the domain name in	plain
Parental C F	irewall	DNS Cache	.om)			
IP Fi	Itering	Host Name		IP Address		
DM Dynami	Z Host			No rules set.		
DNS	Cache					+
010	UPnP				Apply	Cancel
	Setup					

Fig.2-11 Internet\DNS Cache

UPnP

Enable IGD UPnP to allow any local UPnP control point to perform a variety of actions, include retrieving the external IP address of the device, enumerate existing port mappings, and add or remove port mappings.



Fig.2-12 Internet\UPnP

RIP Setup

This page allows configuration of RIP parameters related to authentication, destionation IP address, and reporting intervals. RIP is used in WAN networks to identify and use the best known and quickest route to given destination addresses to help reduce congestion and delays.

Overview	Internet	WiFi	Setting	USB	MoCA	Status
Port	Mapping Th rep	Routing F is page allows configuration porting intervals. RIP auto stination address.	on of RIP parameters	related to authe	ntication, destination IP	
IP	Firewall	Route Table				
		Destination IP Address	Destination Subnet Ma	ask Geteway		
Dynai	mic DNS			No rules set.		
DN	S Cache					4
R	UPnP	IP Interface RIP Configu				
AC base Pass	through	Interface Neighbor Versio			Status	4
		Enable RIP Advertisement Timer Enable NAT RIP Routed S Enable WAN Provisioning			30	
	[i Notice: Use pro	xy mode when disable	WAN Provision	ing	
					Apply	Cancel

Fig.2-13 Internet\RIP Setup

Diagnostic

This page offers basic diagnostic tools for you to use when connectivity problems occur. When you ping an Internet device, you send a packet to its TCP/IP stack, and it sends one back to yours. To use the ping Test, enter the information needed and press Start Test; the Result will be displayed in the lower part of the window. Press Abort Test to stop, and Clear Results to clear the result contents. Note: Firewalls may cause pings to fail but still provide you TCP/IP access to selected devices behind them. Keep this in mind when ping a device that may be behind a firewall. Ping is most useful to verify connectivity with PCs which do not have firewalls, such as the PCs on your LAN side.

Overview	Internet	WiFi	Setting	USB	MoCA	Status
	vanced lapping Control	Diagnosti This page provides diag Diagnostic Utility	gn <mark>ostic tools to help w</mark>	ith IP connectivity pr	roblems.	•
	Firewall iltering	Ping Test Para			1 mg	
	//Z Host	Target Ping Size				
	iic DNS 6 Cache	Number of Ping	S		3	
RIE	UPnP 9 Setup	Ping Test Resu	ults			
	nostics					
AC base Passt	hrough					
				Start Test	Abort Test Cle	ear Results

Fig.2-14 Internet\Diagnostic

MAC base Passthrough

					English T	Basic Mode
Overview	Internet	WiFi	Setting	USB	MoCA	Statu
Adv	anced	MAC base	e Passth	rough		
Port Ma	apping	This page allows you co			ress (bypass NAT).	
Parental C	ontrol					
Fi	rewall	MAC Address L	ist			
IP Fi	itering	MAC Address				
DM	Z Host			No rules set.		
Dynami	c DNS					
DNS	Cache					+
	UPnP					
RIP	Setup				Арріу	Cancel
Diagn	ostics					

Fig.2-15 Internet\MAC base Passthrough

Wi-Fi Web Page Group

General

This page allows configuration of the 2.4GHz and 5GHz wireless features. These must match the settings you make on your wireless-equipped PC on the LAN side.

						Basic Mode
Overview	Internet	WiFi	Setting	USB	MoCA	Status
	WPS Y	General four router supports th 802.11b/g/n), enabling 2.4G Setup			ansmission rates up to 30 25.	IO Mbit/s
		2.4G WiFi Netw	vork			ON
		Current Channe Current Bandwi				1 20 MHz
		Gurrent Bandwi	un		WiFi	20 1112
		WiFi Name (SS	ID)		ASK_P_1_XXXX	
		Interface Type Channel			802.11 b/g/n	•
		Bandwidth Output Power			20/40 MHz	T
		Broadcast SSID)		100%	ON
		WiFi Protection Network Key			WPA+WPA2/TKIP+/	AES V
					Display Ch. Change	
		5G Setup				
		5G WiFi Networ	ſĸ			ON
		Current Channe Current Bandwi				36 80 MHz
		Current Bandwi	un		WiFi	00 10112
		WiFi Name (SS	ID)		ASK_P_2_XXXX	
		Interface Type Channel			802.11 a/n/ac 36	•
		Bandwidth Output Power			20/40/80 MHz	•
		Broadcast SSID)			ON
		WiFi Protection Network Key			WPA+WPA2/TKIP+	AES V
					Display Ch:	aracters
					Арріу	Cancel

Fig.2-16 Wi-Fi\General

- **2.4GWi-Fi Network / 5GWi-Fi Network**: It may help you to **Enable** or **Disable** the 2.4GHz / 5GHz wireless function.
- **Current Channel**: The channel that you choose will be displayed in this field.
- **Current Bandwidth**: The bandwidth that you choose will be displayed in this field.
- Wi-Fi Name (SSID): The SSID for 2.4GHz / 5GHz wireless function.
- **Interface Type**: There are three different modes can be selected. 2.4GHz can be selected 802.11b/g, 802.11b/g/n and 802.11n only; 5GHz can be selected 802.11a, 802.11a/n/ac and 802.11n/ac only.
- Channel: In 802.11 Band 2.4GHz, there are 1 to 11 channels. In 802.11 Band 5GHz, there are 36, 40, 44, 48, 52, 56, 60, 64, 100, 104, 108, 112, 116, 120, 124, 128, 132, 136, 140, 144, 149, 153, 157, 161, 165 channels for all country. Choose the one that is suitable for this device.
- Bandwidth: Select wireless channel width 20/40 MHz is for 2.4GHz Wi-Fi default value, and 20/40/80 MHz is for 5GHz Wi-Fi default value. (Bandwidth taken by wireless signals of this access point.)
- **Output Power**: This setting decides the output power of this device. You may use it to economize on electricity by selecting lower percentage of power output. Control the range of the AP by adjusting the radio output power.
- **Broadcast SSID**: Broadcasting the SSID causes the name of your network to appear in the list of available networks.
- **Wi-Fi Protection**: The method of Wi-Fi protection can be OFF, WPA2/AES or WPA+WPA2/TKIP+AES.
- **Network key**: The network key is the password that you use to authenticate with your router.
- **QR Code**: Use the smart phone scan QR code APP to get Wi-Fi Name (SSID), Wi-Fi Protection and Network key.


Fig.2-17 Wi-Fi\General\QR Code



- WIFI: S (SSID): **ASK_P1_XXXX**
- T (Wi-Fi Protection): **WPA**
- P (Network key): **1234567890**

802.11x Authentication introduction

If you enable the **802.11x authentication** function, you will have to offer the following information-

• **WEP-64** (Wired Equivalent Privacy):

WEP-64 is a simple security protocol for wireless networks that encrypts transmitted data. The WEP key can be entered as a string of 10 hexadecimal characters (0–9 and A–F).

• WPA (Wi-Fi Protected Access)/WPA2:

It must be used in conjunction with an authentication server such as RADIUS to provide centralized access control and management. It can provide stronger encryption and authentication solution than none WPA modes. **WPA2** is the second generation of **WPA** security.

• WPA/WPA2 Encryption:

There are two types that you can choose, **AES**, **TKIP+AES**.

TKIP takes the original master key only as a starting point and derives its encryption keys mathematically from this mater key. Then it regularly changes and rotates the encryption keys so that the same encryption key will never be used twice

AES provides security between client workstations operating in ad hoc mode. It uses a mathematical ciphering algorithm that employs variable key sizes of 128, 192 or 256 bits.

WPS

This page allows you to configure WPS setting. Wi-Fi Protected SetupTM (WPS) is an easy and secure way of configuring and connecting your Wireless access point. In this case, the Wireless Voice Gateway is the Access Point (AP), and your PC (or Wireless Device) is called the STA. When configuring your Wireless Network via WPS, messages are exchanged between the STA and AP in order to configure the security settings on both devices.

Overview	Internet	WiFi	Setting	USB	MoCA	Status
	WPS	WPS The WPS functions help thoose and configure th 2.4G WPS Funct 5G WPS Functio	e allowed security me		omatically with the rou	Jter. You can
		WPS-PBC: Pust	n button on devices			
			ices press Pair on this pairing for 2 minutes at			Your router Pair
		WPS-PIN: It is t	he customer's <mark>PIN W</mark>	PS.		
			mber method, you hav rocess at the same tin			
		WPS-PIN: AP De	evice PIN			
		Please enter this	device PIN code on y	our devices.		
		Device PIN Code	2:		12345678	ienerate Pin
					Apply	Cancel

Fig.2-19 Wi-Fi\WPS

MAC Filter

By entering MAC Address, you can configure which local PCs are allowed access to the WAN. Besides the list of MAC filter, any local PCs else would be blocked to the WAN.



Fig.2-20 Wi-Fi\MAC Filter

Reset

This page allows configuration of the wireless network to default.



Fig.2-21 Wi-Fi\Reset

Settings Web Page Group

Language

This page allows configuration of language.

You can change the display language to "English", "Suomi", "中文", "Deutsche", "Nederlands", "Francais" or "日本語" on the top of the page.

			Setting	USB	MoCA	Status
Language Password Configuration LAN Internet Time LED	I TH	Language			English USA English USA Suomi Suomi 中文 Taiwan Deutsche Germany Nederlands Nederland	

Fig.2-22 Setting\Language

Password

By default, the username is "**user**" and password is "**user**".

When the current password is the default one, the user is strongly encouraged to change the default web password.

The password can be a minimum of 8 characters, maximum of 20 characters and is case sensitive. If forget your username and password, you may Press "Reset" button on the rear panel more than 5seconds to restore the username and password to default.

Note: We are always suggesting you to modify the password. This is a basic protection against wrongful access to the Gateway Web pages.

Overview	Internet	WiFi	Setting	USB	MoCA	Status
Pa	HORIZANDE DE MARI	Setup Acc				
Sonng	LAN	Login Account				
Intern	et Time	Current Passwor	d			
	LED				Display Ch Chang	aracters ge Key
		Account Securi	ty			
		Automatic Logou	t		Never	•
					Арріу	Cancel

Fig.2-23 Setting\Password

Configuration

This page allows you to save your current settings locally on your PC, or restore settings previously saved.



Fig.2-24 Setting\Configuration

• Save & Restore User Configuration: To back up the current configuration, click Save to Computer and follow the prompts.

To restore a previous configuration, click **Upload** and use the navigation window to locate the file (usually backupsettings.conf.) Once the file has been located, click **From to Computer** to restore the settings. Once the settings are restored, the device will reboot.

• **Reset to Factory Settings:** Click **Reset** allows you to restore your router to factory default settings and will also force it to restart.

LAN

This page allows configuration of the basic features of the broadband gateway related to your ISP's connection.

	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10.000				
Overview	Internet	WiFi	Setting	USB	MoCA	Status
Pas	ssword T	AN his page allows confi P's connection.	guration of the basic fe	eatures of the broad	band gateway related t	o your
Config						
		LAN Settings				
Interne	et Time				Hon	ne Network
	LED	IP Address Ro	uter		192 . 168 . 0	- 1
		IP Subnet Mas	ĸ		255 . 255 . 255	• - 0 •
		DHCP Server				ON
		DHCP Server	Parameters			
					Hon	ne Network
		Address Pool 5	Start IP		192 . 1 <mark>6</mark> 8 . 0	- 10
		Address Pool E	End IP		192 . 168 . 0	. 254
		Lease Time(Se	econds)		86400	
		DHCP Static I	P Lease			
					ies can be configured) Idress then click Apply/	
		MAC Address		IP Address		
				No rules set.		
						+
		IPv6 LAN Sett	ings			
		DHCPv6 Serve	21			ON
		DHCPv6 Serve	er Type		Stateful	•
		DNS Settings				
		Static DNS				OFF
					Apply	Cancel

Fig.2-25 Setting\LAN

Internet Time

This page allows configuration and display of the system time obtained from network servers via Simple Network Time Protocol. The system has to be reset for any changes to take effect.

Overview	Internet	WiFi	Setting	USB	MoCA	Status
	nguage	Internet T	ime			
	ssword	This page allows you to t	the modem's time co	nfiguration.		
Config	LAN	Time Settings				
Intern	et Time	Automatically syn	chronize with Interne	et time servers	1	ON
	LED	First NTP time se	erver clock.fr	nt.he.net	•	
		Second NTP time	e server None		•	
		Third NTP time s	erver None		•	
		Fourth NTP time	server None		X	
		Fifth NTP time se	erver None		•	
		Time zone offset	(GMT+08	00) Beijing, Chongqui	ng, Hong Kong, Urumq	[•
					Apply	Cancel

Fig.2-26 Setting\Internet Time

LED

This page allows configuration of the LED brightness.

Overview	Internet	WiFi	Setting	USB	MoCA	Status
Pas	nguage ssword uration LAN et Time LED	LED Brightness Brightness Leve Time Option From	uration of the LED bri		ightness Level	
		上午 12:00		2	Apply	Cancel

Fig.2-27 Setting\LED

USB Web Page Group

USB Basic

This page allows basic control of the USB devices shared over the network.

Overview	Internet	WiFi	Setting	USB	MoCA	Status
Media	C		control of the USB de ices to be shared devi name		he network. ASKEY_Device Workgroup	OFF
						Save

Fig.2-28 USB\USB Basic

Media Server

This page controls configuration and scanning of the cable modem's media server.

Overview	Internet	WiFi	Setting	USB	MoCA	Status
Media		Basic Setings Media Server	nfiguration and scannin	g of the cable mode	m's media server.	OFF
		Media Server №	Name		ASKEY-DMS	Save

Fig.2-29 USB\Media Server

CPUS Server

This page allows control of the USB Printer shared over the network.



Fig.2-30 USB\CPUS Server

MoCA Web Page Group

MoCA

You will be able to change your MoCA setting here. MoCA is a new technology which utilizes your existing CATV coax at home to form a home networking which will provide high speed home network access.

Overview	Internet	WiFi	Setting	USB	MoCA	Status
		NOCA CO				
		Version				2.12.0.3
		Link status				Disconnect
		MAC Address			00:10	0:18:33:90:A0
		Privacy				ON
		Privacy Passwore	d			
					Display C	haracters
					Apply	Cancel

Fig.2-31 MoCA\MoCA

Status Web Page Group

Status

This page can find an overview of all your router parameters. This may help you in optimizing or trouble shooting your router.

Overview	Internet	WiFi	Setting	USB	MoCA	Status
Voice	Ed. do.	Status his page displays inform	nation on the current	t system software.		
	ostream Istream	System				
Eve	ent Log	Serial Number	11	1103		
Spectrum A	nalyzer	Model Vendor	As	key		
		Model Name	TC	CG310J		
		Model Type	Wi	FI EMTA		
		CM MAC Address	; 0 <mark>0</mark>	:90:00:11:11 <mark>:</mark> 03		
		Firmware version	D2	63.UUN35.E21.01		
		Bootloader Versio	n 2.7	7.0alpha4		
		Bolt Version	PK	E2048JM_D263_Rev0)1 (v1.17_B1)	
		Hardware Type &	Version 1.0	0		
		Uptime since last	reboot OE	1H 58M 52S		
		Reboot Cause	Re	eset		
		CPU Usage	12	.3 %		
		Memory Usage	10	.3675 %		
		Wireless Driver Ve	ersion 10	.10.122.303		

Fig.2-32 Status\Status

Voice Status

This page displays the initialization status of the MTA containing Telephony DHCP, Security, TFTP and Provisioning Status. The information can be useful to your cable company's support technician if you're having problems.



Fig.2-33 Status\Voice Status

Upstream

This page reports current CM's upstream information containing Transmitter #, Channel ID, Lock Status, Frequency, Symbol Rate, Channel Type and Power. The information can be useful to your cable company's support technician if you're having problems.

Overview	Internet	Wi	Fi	Setting		USB	MoCA	Status
Voice	Status	Upstre		tream informa	tions			
	stream <	Upstream Ch	annel Statu	15				
Eve	ent Log	Transmitter #	Channel ID	Lock Status	Frequency	Symbol Rate	Channel Type	Power
Spectrum Ar	nalyzer	1	1	Locked	9208	5120 Ksym/sec	ATDMA	43.0 dBm\
		2	2	Locked	15608	5120 Ksym/sec	ATDMA	41.0 dBm\

Fig. 2-34 Status\Upstream

Downstream

This page reports current CM's downstream information containing Receiver #, Channel ID, Lock Status, Frequency, Modulation, SNR and Power. The information can be useful to your cable company's support technician if you're having problems. By entering frequency in KHz and clicking "Force frequency" button, you can force the CM locking to the specified frequency.

Overview	Internet	W	iFi	Setting		USB	MoCA	Status
	Contract of Contra	Downs This page displa			mations			
	nstream	Downstream	n Channel St	atus				
Ev	ent Log	Receiver #	Channel ID	Lock Status	Frequency	Modulation	SNR	Power
Spectrum A	nalyzer	1	1	Locked	603000	QAM256	46.4 dBmV	-2.6 dBm\
		2	2	Locked	609000	QAM256	45.9 dBmV	-2.9 dBm\
		3	3	Locked	615000	QAM256	45.8 dBmV	-3.2 dBm\
		4	4	Locked	621000	QAM256	46.3 dBmV	-3.3 dBm\
		Frequency			Khz	Force Frequen	су	

Fig. 2-35 Status\Downstream

Event log

This page displays the contents of the SNMP event log.

Overview	Internet	WiFi	Setting	USB	MoCA	Status
	Status	SNMP Eve		t log.		
Dowr	nstream	Event Log Table				
Ev	ent Log	Time	Description			
Spectrum Analyzer		Thu Jan 01 00:01:51 1970	Resetting the cable modern due to console commande received - T3 time-out			
		Thu Jan 01 00:01:26 1970	SYNC Timing Synchronization failure - Failed to acquire QAM/QPSK symbol timing			
		Tue Mar 28 21:37:08 2017	Started Unicast Maintenance Ranging - No Response received - T3 time-out			
		Thu Jan 01 00:00:29 1970	SYNC Timing Synchronization failure - Failed to acquire QAM/QPSK symbol timing			
		Fri Mar 31 15:42:40 2017	Resetting the cable m timing;	nodem due to consol	e commandacquire QA	AM/QPSK symbol
		Thu Jan 01 00:00:29 1970	SYNC Timing Synchronization failure - Failed to acquire QAM/QPSK symbol timing			
		Wed Apr 05 16:00:52 2017	Started Unicast Maintenance Ranging - No Response received - T3 time-out			
		Thu Apr 06 02:49:46 2017	Started Unicast Maint	tenance Ranging - N	o Response received -	T3 time-out
					Clear Log	Refresh

Fig. 2-36 Status\Event log

Spectrum Analyzer

This function can be accessed via click **Spectrum Analyzer** on GUI. The username is "**admin**" and password is "**aDm1n\$TR8r**". The Spectrum Analyzer software enables the user to configure an interactive GUI to study the RF characteristics on the cable modem. The controls behave normally as they do on a regular spectrum analyzer.

Once the **Run** button is clicked, the cable modem starts collecting signal magnitude vs freq. data.



Fig. 2-37 Status\Spectrum Analyzer

CHAPTER 3: ADDITIONAL INFORMATION

Frequently Asked Questions

Q. How do I get the system installed?

A. Professional installation from your cable provider is strongly recommended. They will ensure proper cable connection to the modem and your computer. However, your retailer may have offered a self- installation kit, including the necessary software to communicate with your cable ISP.

Q. Once my Cable Modem is connected, how do I get access to the Internet?

A. Your local cable company provides your internet service*, offering a wide range of services including email, chat, and news and information services, and a connection to the World Wide Web.

Q. Can I watch TV, surf the Internet, and talk to my friends through the Cable Modem at the same time?

A. Absolutely!

Q. What do you mean by "Broadband?"

A. Simply put, it means you'll be getting information through a "bigger pipe," with more bandwidth, than a standard phone line can offer. A wider, "broader" band means more information, more quickly.

Q. What is DOCSIS and what does it mean?

A. "Data over Cable Service Interface Specifications" is the industry standard that most cable companies are adopting as they upgrade their systems. Should you ever decide to move, the Cable Modem will work with all upgraded cable systems that are DOCSIS-compliant.

* Monthly subscription fee applies.

** Additional equipment required. Contact your Cable Company and ISP for any restrictions or additional fees.

General Troubleshooting

You can correct most problems you have with your product by consulting the troubleshooting list that follows.

I can't access the internet.

- Check all of the connections to your Cable Modem.
- Your Ethernet card may not be working. Check each product's documentation for more information.
- The Network Properties of your operating system may not be installed correctly or the settings may be incorrect. Check with your ISP or cable company.

I can't get the modem to establish an Ethernet connection.

- Even new computers don't always have Ethernet capabilities be sure to verify that your computer has a properly installed Ethernet card and the driver software to support it.
- Check to see that you are using the right type of Ethernet cable.

The modem won't register a cable connection.

- If the modem is in Initialization Mode, the INTERNET light will be flashing. Call your Cable Company if it has not completed this 5-step process within 30 minutes, and note which step it is getting stuck on.
- The modem should work with a standard RG-6 coaxial cable, but if you're using a cable other than the one your Cable Company recommends, or if the terminal connections are loose, it may not work. Check with your Cable Company to determine whether you're using the correct cable.
- If you subscribe to video service over cable, the cable signal may not be reaching the modem. Confirm that good quality cable television pictures are available to the coaxial connector you are using by connecting a television to it. If your cable outlet is "dead", call your Cable Company.
- Verify that the Cable Modem service is DOCSIS compliant by calling your cable provider.

Service Information

If you purchased or leased your Cable Modem directly from your cable company, then warranty service for the Digital Cable Modem may be provided through your cable provider or its authorized representative. For information on 1) Ordering Service, 2) Obtaining Customer Support, or 3) Additional Service Information, please contact your cable company. If you purchased your Cable Modem from a retailer, see the enclosed warranty card.

Federal Communication Commission Interference Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed 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 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.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

For operation within 5.15 5.25GHz / 5.47 5.725GHz frequency range, it is restricted to indoor environment. This device meets all the other requirements specified in Part 15E, Section 15.407 of the FCC Rules.

FOR MOBILE DEVICE USAGE (>28cm/low power)

Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 28cm between the radiator & your body.

FOR COUNTRY CODE SELECTION USAGE (WLAN DEVICES)

Note: The country code selection is for non-US model only and is not available to all US model. Per FCC regulation, all Wi-Fi products marketed in US must fix to US operation channels only.

Industry Canada statement:

This device complies with ISED's licence-exempt RSSs. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Le présent appareil est conforme aux CNR d' ISED applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) le dispositif ne doit pas produire de brouillage préjudiciable, et (2) ce dispositif doit accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement indésirable.

Caution :

(i) the device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;

(ii) the maximum antenna gain permitted for devices in the bands 5250-5350 MHz and 5470-5725 MHz shall be such that the equipment still complies with the e.i.r.p. limit;

(iii) the maximum antenna gain permitted for devices in the band 5725-5850 MHz shall be such that the equipment still complies with the e.i.r.p. limits specified for point-to-point and non-point-to-point operation as appropriate; and

(v) Users should also be advised that high-power radars are allocated as primary users (i.e. priority users) of the bands 5250-5350 MHz and 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

Avertissement:

Le guide d'utilisation des dispositifs pour réseaux locaux doit inclure des instructions précises sur les restrictions susmentionnées, notamment :

(i) les dispositifs fonctionnant dans la bande 5150-5250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux;

(ii) le gain maximal d'antenne permis pour les dispositifs utilisant les bandes de 5250 à 5 350 MHz et de 5470 à 5725 MHz doit être conforme à la limite de la p.i.r.e;

(iii) le gain maximal d'antenne permis (pour les dispositifs utilisant la bande de 5 725 à 5 850 MHz) doit être conforme à la limite de la p.i.r.e. spécifiée pour l'exploitation point à point et l'exploitation non point à point, selon le cas;

(v) De plus, les utilisateurs devraient aussi être avisés que les utilisateurs de radars de haute puissance sont désignés utilisateurs principaux (c.-à-d., qu'ils ont la priorité) pour les bandes 5250-5350 MHz et 5650-5850 MHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs LAN-EL.

FOR MOBILE DEVICE USAGE (>28cm/low power)

Radiation Exposure Statement:

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 28cm between the radiator & your body.

Déclaration d'exposition aux radiations:

Cet équipement est conforme aux limites d'exposition aux rayonnements ISED établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 28 cm de distance entre la source de rayonnement et votre corps.

CAUTION for UL (Check caution label on gift box)

North American Cable Installer:

This reminder is provided to call your attention to Article 820.93 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.