

TCG310

SAFETY INSTRUCTIONS AND REGULATORY NOTICES	5
Chapter 1: Connections and Setup	9
Cable Modem Overview	9
Front Panel	9
Rear Panel	11
Bottom Side Panel for TEL	12
Wall Mounting	13
Relationship among the Devices	14
What the Modem Does	14
What the Modem Needs to Do Its Job	14
Contact Your Local Cable Company	15
Connecting the Wireless Voice Gateway to a Single Computer	15
Attaching the Cable TV Wire to the Wireless Voice Gateway	16
Installation procedure for connecting to the Ethernet interface	17
Telephone or Fax Connection	18
Chapter 2: WEB Configuration	19
Accessing the Web Configuration (For basic account only)	19
Overview Web Page Group	21
Overview	21
Internet Web Page Group	
Parental Control	22
Wi-Fi Web Page Group	23
General	23
Guest Network	27
WPS	
Wi-Fi Clients	
Reset	33
Settings Web Page Group	
Language	34
Password	35
Configuration	
LAN	

LED	8
MoCA Web Page Group	9
MoCA 3	9
Status Web Page Group 4	0
Status 4	0
Voice Status4	1
Up/Down Stream	2
Event log4	3
Accessing the Web Configuration (For admin account only)	4
Internet Web Page Group 4	4
Advanced4	4
Port Mapping4	6
Firewall4	7
IP Filtering4	8
Port Filtering	9
DMZ Host	0
Dynamic DNS	1
DNS Cache	2
UPnP5	3
RIP Setup	4
Bridge Mode5	5
Diagnostic	6
MAC base Passthrough	7
Wi-Fi Web Page Group	8
Schedule5	8
MAC Filter5	9
WMM (Wi-Fi Multi-Media)6	0
Settings Web Page Group	1
Remote Access 6	1
Internet Time6	2
USB Web Page Group	3

USB Basic	63
Media Server	64
CPUS Server	65
Chapter 3: Additional Information	
Frequently Asked Questions	
General Troubleshooting	
Service Information	68
Federal Communication Commission Interference Statement	
CAUTION for UL (Check caution label on gift box)	71

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	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.



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.



Unplug the

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

power plug	of burning or smoke. You should never open the unit yourself because you could be electrocuted.
Prohibited	Do not place the product near any source of heat or expose it to direct sunlight.
Water wet prohibition	Do not expose the product to moisture. Never spill any liquid on the product.
Instruction	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 110~240 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 qualified service personnel under the following conditions:

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

If liquid has been spilled into the product.



prohibited

2.

- 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

CHAPTER 1: CONNECTIONS AND SETUP

Cable Modem Overview

Front Panel

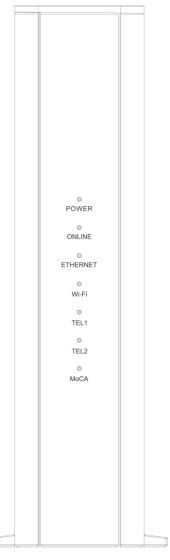


Fig. 1-1 Front Panel

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-Fi	Indicates the traffic on the wireless network.
TEL	Indicates the status of the telephone ports.
1 / 2	
MoCA	Indicates the status of the MoCA functionality.

LED from top to bottom.

LED	Status	Description
POWER	ON	The device is on.
FOWER	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 or upgrade firmware.
	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

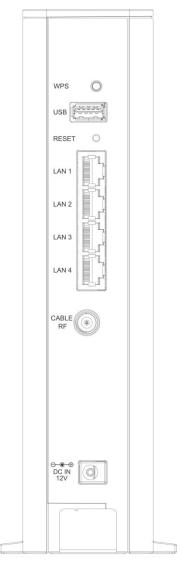


Fig. 1-2 Rear Panel

Slot	Description
WPS	Enables scanning for available WPS client device
USB	USB 3.0 host connector
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.



Bottom Side Panel for TEL

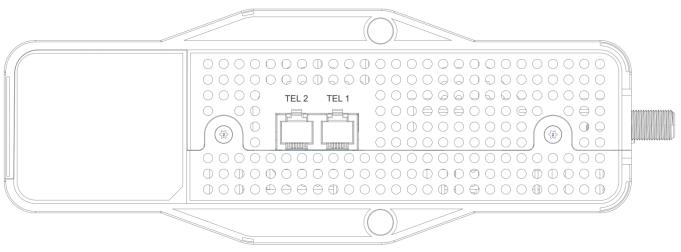


Fig. 1-3 Bottom Side Panel

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.

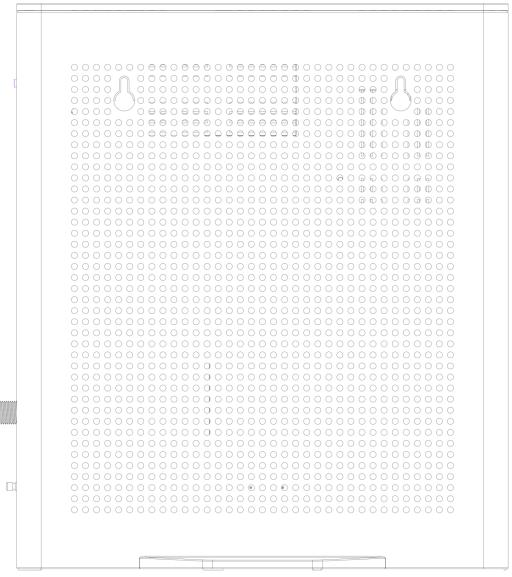


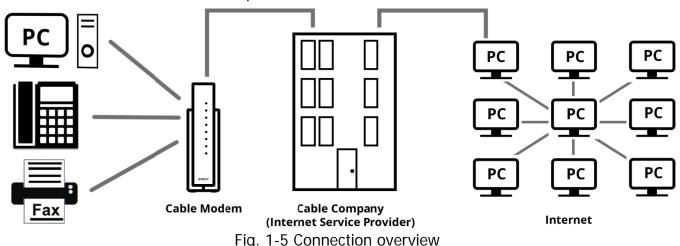
Fig. 1-4 Wall Mounting

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.

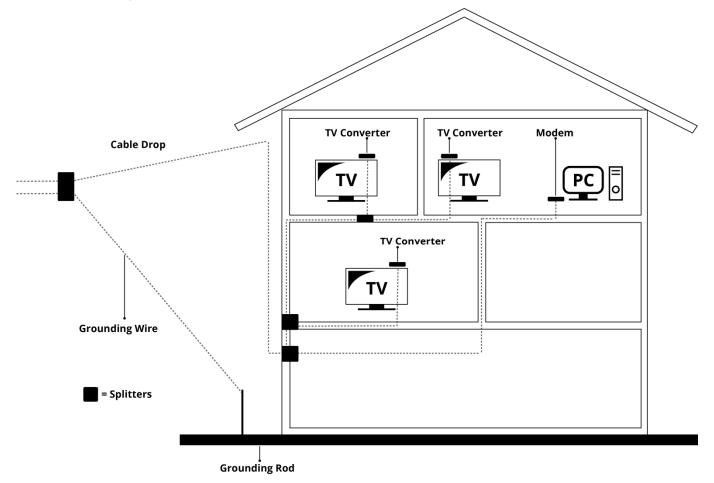
Connecting the Wireless Voice Gateway to a Single Computer

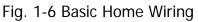
This section of the manual explains how to connect your Wireless Voice Gateway to the Ethernet port on your computer and install the necessary software. Please refer to Figure 1-7 to help you connect your Digital Cable Modem for the best possible connection.

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.

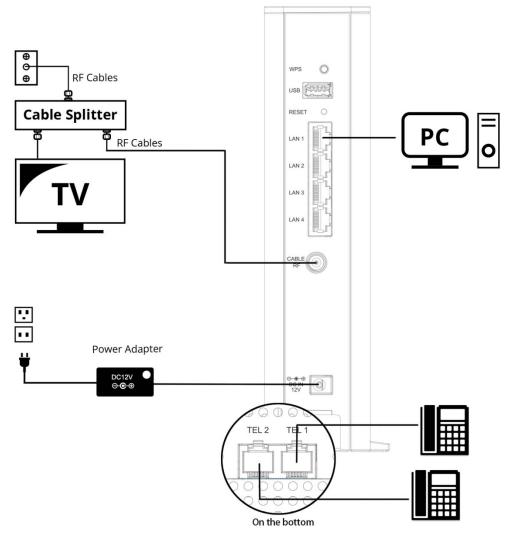


Fig. 1-7 Connect to the Modem

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.

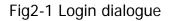
Accessing the Web Configuration (For basic account only)

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 password to access your configu settings.
Usemame Log In



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", "Français" or "日本語" on the top of the page.

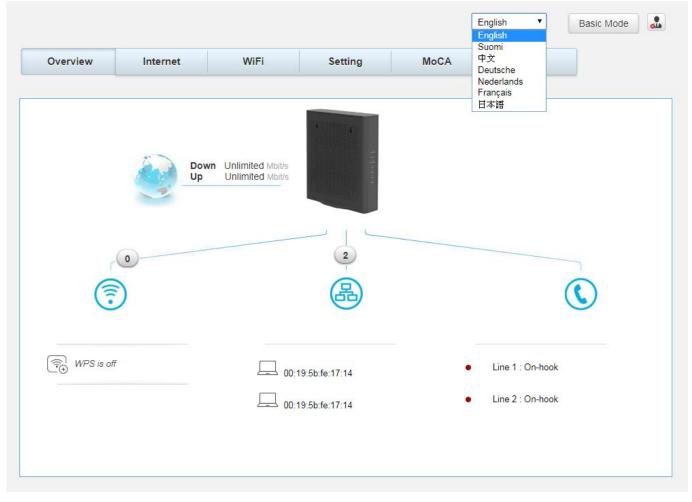


Fig. 2-2 Switch Language

Overview Web Page Group

Overview

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

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

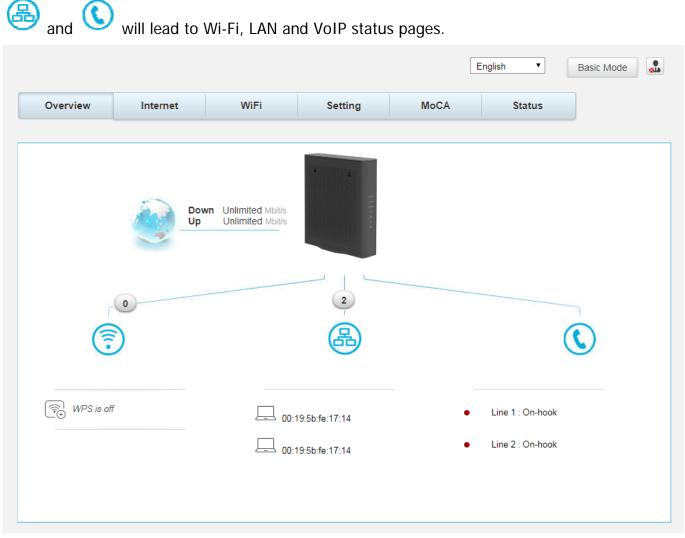


Fig.2-3 Overview

Internet Web Page Group

Parental Control

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

4.000	Parental Co	ontrol Iters at given times, accord		
			ding to their MACs.	
	Access Control			
	Access Control			ON
	Rule Name	Days Of Week	From To	
		No rule	es set.	
				+
	Connect Devices	192.168.0.50	00:19:5b:fe:17:14	+
			Apply	Cancel
			Rule Name Days Of Week No rul Connect Devices IP Address	Rule Name Days Of Week From To No rules set. Connect Devices IP Address MAC Address 192.168.0.50 00:19:5b:fe:17:14

Fig.2-4 Internet\Parental Control

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.

					English	Basic Mode
rview	Internet	WiFi	Setting	MoCA	Status	
	General	General				
Guest	Network	Your router supports the				00 Mbit/s
	WPS	(802.11b/g/n), enabling e	asy wireless conn	ection of your devices	S.	
WiF	i Clients	2.4G Setup				
Wi	Fi Radar	2.4G WiFi Netwo	ırk			ON
	Reset					
		Current Channel				1
		Current Bandwid	th			40 MHz
		Current Sideban	d			Lower
					WIFI	
		WiFi Name (SSI	2)		ASKEY_B2BC	
		Interface Type			802.11 b/g/n	•
		Sideband(40MH;	z only)		Lower	۲
		Channel			1	۲
		Bandwidth			20/40 MHz	۲
		Output Power			100%	۲
		Broadcast SSID				ON
		WiFi Protection			WPA+WPA2/TKIP	+AES •
		Network Key				
						Characters ge Key
		5G Setup				
		5G WiFi Network				ON
		Current Channel				36
		Current Bandwid	th			80 MHz
					WiFi	
		WiFi Name (SSI	D)		ASKEY_B2BC	
		Interface Type			802.11 a/n/ac	۲
		Sideband(40MH	z only)		Lower	Ŧ
		Channel			36	۲
		Bandwidth			20/40/80 MHz	۲
		Output Power			100%	•
		Broadcast SSID				ON
		WiFi Protection			WPA+WPA2/TKIP	+AES •
		Network Key				
						Characters ge Key
					Apply	Cancel

Fig.2-5 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.
- **Current Sideband**: The sideband 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.
- **Sideband (40MHz only)**: There is "Lower" and "Upper" can be selected if Bandwidth 40 MHz was enabled.
- **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, 149, 153, 157, 161 channels. Choose the one that is suitable for this device.
- The 5.25-5.35GHz and 5.47-5.725GHz DFS bands are not available for USA marketing models
 - **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, WPA, 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 QR code scanning APP on the smartphone to get Wi-Fi Name (SSID), Wi-Fi Protection and Network key.



Fig.2-6 Wi-Fi\General\QR Code



Fig.2-7 Wi-Fi\General\Scanning result

- WIFI: S (SSID): ASKEY_B2BC
- T (Wi-Fi Protection): WPA
- P (Network key): zNyQzYwEGNRTN

For Android users, you can install "Barcode Scanner" app to scan Wi-Fi QR code, and the smart phone will be able to connect automatically without entering the SSID and password.



Fig.2-8 Wi-Fi\General\Android APP

802.11x Authentication introduction

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

• 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.

Guest Network

This page allows configuration of the 2.4GHz and 5GHz guest network.

					English •	Basic Mode	.
Overview	Internet	WiFi	Setting	MoCA	Status		
	-	ad to be				_	
1	General	Guest Net	work				
Guest M	Induce and	This page allows configura		etwork.			
	WPS	1. 2010/1					
	Clients	2.4G Setup					
WiF	Fi Radar	2.4G WiFi Network	¢			ON	
	Reset				WiFi		
		WiFi Name (SSID) Broadcast SSID	0.		ASK_G_1_XXX		
		WiFi Protection			WPA+WPA2/Tk		
		Network Key					
					Display	Characters	
					Ch	ange Key	
		Guest LAN Settin	gs				
		IP Address Subnet Mask				255.255.255.0	
		Lease Pool Start					
		Lease Pool End					
		Lease Time					
		5G Setup					
		5G WiFi Network				ON	
					WiFi		
					WIFT		
		WiFi Name (SSID)			ASK_G_2_XXX	X_1_1	
		Broadcast SSID				ON	
		WiFi Protection Network Key			WPA+WPA2/TH	(IP+AES V	
					Display	Characters	
					Ch	ange Key	
		1 868.56					
		Guest LAN Settin	gs				
		IP Address				000.000.000	
		Subnet Mask Lease Pool Start				255.255.255.0	
		Lease Pool End					
		Lease Time					
					Apply	Cancel	

Fig.2-9 Wi-Fi\Guest Network

- **2.4G Wi-Fi Network / 5G Wi-Fi Network**: It may help you to **Enable** or **Disable** the 2.4GHz / 5GHz wireless function.
- Wi-Fi Name (SSID): The SSID for 2.4GHz / 5GHz Guest wireless function.
- **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, WPA, 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 QR code scanning APP on the smartphone to get Wi-Fi Name (SSID), Wi-Fi Protection and Network key.



Fig.2-10 Wi-Fi\General\QR Code



Fig.2-11 Wi-Fi\General\Scanning result

- WIFI: S (SSID): ASK_G_1_XXXX_0_1
- T (Wi-Fi Protection): WPA
- P (Network key): **1234567890**

For Android users, you can install "Barcode Scanner" app to scan Wi-Fi QR code, and the smart phone will be able to connect automatically without entering the SSID and password.



Fig.2-12 Wi-Fi\General\Android APP

Guest LAN Settings

A private IP address and Subnet Mask for LAN sub netting.

For example 192.168.0.1./ 255.255.255.0.

- Configure the IP address numbers for the DHCP server with "Lease pool start" and "Lease pool end".
- Configure the IP address lease time with "Lease time" for DHCP server.

802.11x Authentication introduction

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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	MoCA	Status	
	General	WPS				
Guest	Network	The WPS functions help choose and configure th			matically with the rout	er. You can
	WPS	, i i i i i i i i i i i i i i i i i i i				
WiF	i Clients	2.4G WPS Fund	tion			ON
Wi	Fi Radar	5G WPS Function	n			ON
	Reset					
		WPS-PBC: Pus	h button on devices			
					your other device(s). Y	our router
		will be open for	pairing for 2 minutes a	fter you press Pair.		Pair
		WPS-PIN: It is t	the customer's PIN V	VPS.		
					t's PIN here. You have e client's PIN on the c	
		GUI.	coo at the barne time,	and you can find th	e client of incor	incline o utility
					Pin Code	Pair
		WPS-PIN: AP D	evice PIN			
		Please enter this	s device PIN code on	your devices.		
		Device PIN Cod	e:		12345678	Generate Pin
					Apply	Cancel

Fig.2-13 Wi-Fi\WPS

Wi-Fi Clients

This page shows all Wi-Fi clients.

Overview	Internet	WiFi	Setting	MoCA		Status	
							-
	General Network	Fi Clie					
WiFi	WPS Clients	2.4G WiFi Clier	ıts				
	i Radar	Device	IP Address	MAC Address	Туре	Signal Channel (dBm)	Security
	Reset		Ν	lo WiFi clients connec	ted.	(abiii)	
		5G WiFi Clients	5				
		Device	IP Address	MAC Address	Туре	Signal Channel (dBm)	Security
			Ν	lo WiFi clients connec	ted.		

Fig.2-14 Wi-Fi\Wi-Fi Clients

Reset

This page allows configuration of the wireless network to default.

Overview	Internet	WiFi	Setting	MoCA	Status	
Guest l WiFi	General Network WPS i Clients Fi Radar Reset	WiFi Reset Defa	iration of the Wireless	Network to Default.		OFF
					Apply	Cancel

Fig.2-16 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", "Français" or "日本語" on the top of the page.

Overview	Internet	WiFi	Setting	MoCA	Status	
Pa	inguage issword guration LAN	Language			English USA	•
	LED				USA English USA	
				÷	Suomi Suomi	
				0	中文 Taiwan	
					Deutsche Germany	
				•	Nederlands Nederland	
				0	Français France	
					日本語 Japan	

Fig.2-17 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.

				E	English 🔻	Basic Mode	•
Overview	Internet	WiFi	Setting	MoCA	Status		
Pa		Setup Ac his page allows config Login Account Current Passwo	uration of administrati		Display C	haracters ge Key	
		Account Secur	ity				
		Automatic Logo	ut		Never	¥	
					Apply	Cancel	

Fig.2-18 Setting\Password

Configuration

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

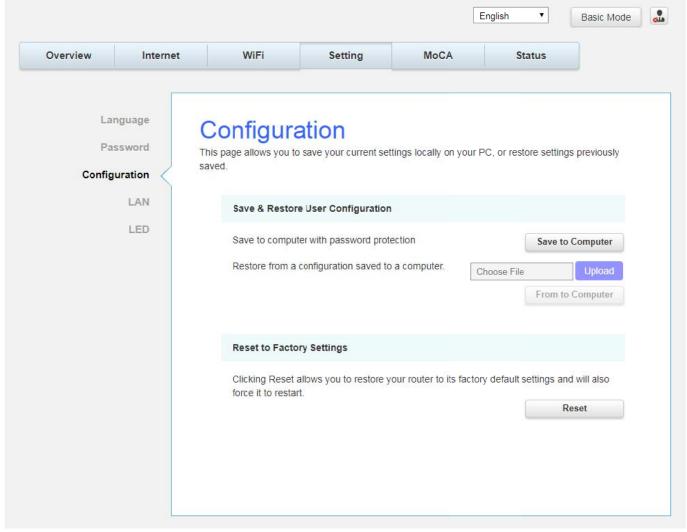


Fig.2-19 Setting\Configuration

• 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.

Overview	Internet	WiFi	Setting	MoCA	Status	
Pa	anguage assword	LAN This page allows config connection.	guration of the basic fe	atures of the broadba	ind gateway related t	o your ISP's
Config	guration					
	LED	LAN Settings			н	ome Network
		IP Address Ro IP Subnet Mas DHCP Server			192 . 168 255 . 255 . 255	0 . 1 5 • . 0 •
		DHCP Server	Parameters			
					Н	ome Network
		Address Pool S	start IP		192 . 168 .	0 . 10
		Address Pool E			192 . 168 .	0 . 254
		Lease Time(Se	conds)		86400	
		DHCP Static II	P Lease			
			Lease Reservations: (ress (01:23:45:AB:CD:			
		MAC Address		IP Address		
				No rules set.		+
		IPv6 LAN Sett	ings			
		DHCPv6 Serve	r			ON
		DHCPv6 Serve	г Туре		Stateful	T
		DNS Settings				
		Static DNS				OFF
					Apply	Cancel

Fig.2-20 Setting\LAN

LED

This page allows configuration of the LED brightness.

Overview Inte	et WiFi	Setting	MoCA	Status	
Language Password Configuration LAN LED	LED Brightness Brightness Leve Time Option From 00:00	uration of the LED brig		ghtness Level	ON ON Cancel

Fig.2-21 Setting\LED

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.

					English 🔻	Basic Mode	d
Overview	Internet	WiFi	Setting	MoCA	Status		
		MoCA CC					
		Version Link status				2.12.0.3 Disconnect	
		MAC Address Privacy			00:10:	18:33:90:A0 ON	
		Privacy Passwo	rd		 Display Ch	aracters	
					Apply	Cancel	

Fig.2-22 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.

					English T	Basic Mode
Overview	Internet	WiFi	Setting	MoCA	Status	
	Status	Status				
Voice	- Status	nis page displays inform	nation on the current	system software.		
Up/Down						
Ev	ent Log	System				
		Serial Number	A2	76G008154		
		Model Vendor	As	key		
		Model Name	тс	G310J		
		Model Type	W	ifi EMTA		
		CM MAC Address	s 00	:90:00:11:11:03		
		Firmware version	D2	263.UUN35.E21.170	701.01	
		Bootloader Versio	on 2.	7.0alpha4		
		Bolt Version	Pł	(E2048JM_D263_Re	ev04_256Mx2 (v1.17_	B1)
		Hardware Type 8	Version 1.)		
		Uptime since last	reboot OE) 1H 8M 6S		
		Reboot Cause		n_reset		
		CPU Usage		.6 %		
		Memory Usage		.5111 %		
		Wireless Driver V		.10.122.303		
		Date & Time	20	17-07-21T11:14:21+	08:00	

Fig.2-23 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.

		WiFi	Setting	1	MoCA	Status	
		√oice Sta	tus				
Voice Up/Down		his page displays initiali	zation status	of the MTA.			
Ev	ent Log	Provision Status	;				
		Task		Status			
		Telephony DHCP		Completed			
		Telephony Securi	ty	Disabled			
		Telephony TFTP		Completed			
		Telephony Prov F	lesult	Pass			
		Telephony Prov N	lethod	BASIC.1			
		Telephony Prov N	ITA IP	"10.10.144	.57 / 255.255.25	5.0"	
		Telephony Prov C	MS FQDN	L1: "lilian.q L2: "lilian.q			
		MTA Line State					
		Lines	Teleph Regist	nony Call Ser tration	ver Ho	ok State	
		Line 1	 Disc 	onnected	On	-hook	
		Line 2	Line 2 • Disc		On	-hook	

Fig.2-24 Status\Voice Status

Up/Down Stream

This page reports current CM's upstream / downstream information. The information can be useful to your cable company's support technician if you're having problems.

By entering downstream frequency in KHz and clicking "Force frequency" button, you can force the CM locking to the specified frequency.

Overview	Internet	Wi	Fi	Setting		MoCA	Status	
Up/Down	Stream	ownstream or	oad speed is download spe	the term giver eed is the term	n to the data I given to the	that your computer data that your com eeds because upstr	puter receives from	n the Internet.
		Upstream Ch	annel Statu	S				
		Transmitter #	Channel ID	Lock Status	Frequency	Symbol Rate	Channel Type	Power
		1	2	Locked	15608	5120 Ksym/sec	ATDMA	28.3 dBm\
		2	1	Locked	9208	5120 Ksym/sec	ATDMA	28.8 dBm\
		Downstream	Channel Sta	atus				
		Receiver #	Channel ID	Lock Status	Frequency	Modulation	SNR	Power
		1	1	Locked	603000	QAM256	45.6 dBmV	3.5 dBmV
		2	2	Locked	609000	QAM256	45.7 dBmV	3.2 dBmV
		3	3	Locked	615000	QAM256	45.5 dBmV	2.8 dBmV
		4	4	Locked	621000	QAM256	45.7 dBmV	2.7 dBmV
		Frequency			Khz	Force Frequency		

Fig. 2-25 Status\ Up/Down Stream

Event log

This page displays the contents of the SNMP event log.

	Internet	WiFi	Setting	MoCA	Status	
Voice Up/Down	e Status T	SNMP Eve		nt log.		
-	ent Log	Event Log Table				
		Time	Description			
		Thu Jan 01 00:00:27 1970	SYNC Timing Synch	nronization failure - Faile	ed to acquire QAM/Q	PSK symbol timing;
		Thu Jan 01 00:00:32 1970	Honoring MDD; IP p	provisioning mode = IPv	4led to acquire QAM	/QPSK symbol timin
		Thu Jan 01 00:00:34 1970	DHCP WARNING -	Non-critical field invalid	in response	
		Fri Jul 21 11:34:05 2017	TLV-11 - Illegal Set o	operation failed		
					Clear Log	Refresh

Fig. 2-26 Status\Event log

Accessing the Web Configuration (For admin account only)

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 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 "**admin**" and password is "**admin**".

This section that introduces the admin account addition pages, and the same as the basic mode pages refer to page $20 \sim 45$, please.

Internet Web Page Group

Advanced

This page allows you to configuration of advanced features of the broadband Gateway.

Parental Cor Advan	ntrol	Advanced				
Port Map		his page allows configu		tures of the broadb	and gateway.	
	wall	Options				
IP Filte	ring	WAN Blocking				OFF
Port Filte	ring	Ipsec Pass Throu	igh			OFF
DMZ H	Host	PPTP Pass Thro	ugh			OFF
Dynamic I	DNS					
DNS Ca	ache					
U	PnP				Apply	Cancel
RIP Se	etup					
Bridge M	lode					
Diagnos	stics					



- **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	USE	B MoCA	Status
Parental	Control	Port Map	pina			
Ad	vanced			connect to a sp	ecific device within a private	LAN.
Port M	lapping <					
F	Firewall	Port Forwardin	g			
IP F	iltering	Service Name	LAN IP	Protocol Priva	ate Port Public Port	
Port F	iltering		No	port forwarding	rule defined	
DN	IZ Host					
Dynam	nic DNS					Ŧ
DNS	i Cache	Port Triggering				
	UPnP	Annalise Manage	Triana Dad	Destand	0t	
RIF	^o Setup	Application Name	Trigger Port		Open port	
Bridg	e Mode		140	port triggering r	ule denned	
Diag	nostics					+
/IAC base Passt	hrough					
					Apply	Cancel

Fig.2-28 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.

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.

				E	English 🔻	Expert Mode
Overview	Internet	WiFi	Setting	USB	MoCA	Status
Parental C Adv	Control	Firewall				
Port Ma	apping	Firewall Setting	js			
F	irewall	IPv4 Firewall Pr	otection		Off	T
IP Fi	Itering	IPv6 Firewall Pr	otection			OFF
Port Fi	Itering					
DM	Z Host	Allowed Services				
Dynami	ic DNS					
DNS	Cache	No Ports Restr	icted			
	UPnP					
RIP	Setup				Save	Cancel
Bridge	Mode					
Diagn	ostics					
AC base Passth	nrough					

Fig.2-29 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
Parental C Adv Port Ma	ranced	IP Filterin This page allows config network devices on the	uration of IP address f	ilters in order to block	k internet traffic to sp	ecific
	irewall Itering	IP Filtering				
	Itering	Start Address	End Address	No rules set.		
DM	Z Host			No faico oct.		
Dynam	ic DNS					+
DNS	Cache					<u> </u>
	UPnP				Apply	Cancel
	Setup					
	Mode					
	ostics					

Fig.2-30 Internet\IP Filtering

Port 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.

					E	Inglish 🔻	Expert Mode
Overview	Interne	et	WiFi	Setting	USB	MoCA	Status
	[
Parental (Control	Р	ort Filte	rina			
Advanced		This	page allows config	-	n order to block specifi	ic internet services to	all devices
Port M	apping	on ti	he LAN.				
F	irewall		Port Filtering				
IP F	iltering		Start Port	End Port	Protocol	Fr	nabled
Port F	iltering <			Endron	No rules set.	L	
DM	IZ Host						
Dynam	ic DNS						+
DNS	Cache						
	UPnP					Apply	Cancel
RIF	9 Setup						
Bridge	e Mode						
Diagr	nostics						
IAC base Passt	hrough						

Fig.2-31 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.

Overview	Internet	WiFi	Setting	USB	MoCA	Status
Port M F IP F Port F DM Dynam	Control vanced lapping Firewall iltering IZ Host ic DNS Cache UPnP	One PC can be	ng: By using the expo Please make sure the exposed to the Intern- ing, or VPN connection	d two-way Internet used host function y lat your computer i		Virtual ON I of your Lacks from net gaming,
	9 Setup	Connect Devi	ces IP Addres	ss M	IAC Address	
_	e Mode		192.168.	0.50 0	0:19:5b:fe:17:14	+
	nostics					
IAC base Passt	hrough	Public IP Addres	55		192 Apply	10.10.144.59 2.168.0. 10 Cancel

Fig.2-32 Internet\DMZ Host

Dynamic DNS

is page allo	JWS to sett	up for Dynamic E	JNS server.			
					English •	Expert Mode
Overview	Internet	WiFi	Setting	USB	MoCA	Status
Port M: F IP Fi Port Fi	vanced	DynDNS This page allows setup of Dynamic DNS Provider Domain Name Account / Email	of Dynamic DNS serv	ice.	DynDNS.org	ON
Dynami		Password DDNS Status				
	Cache UPnP Setup				Apply	Cancel
	e Mode					
IAC base Passth	nrough					

Fig.2-33 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)

Parental Contro Advanced Port Mapping Firewal	t t t	DNS Cac This page allows configu (Ex. mydomain.com)	ns proxy mode.Enter	the domain name in p	plain format
	1				
IP Filtering	9	DNS Cache			
Port Filtering	9	Host Name	IP Address		
DMZ Hos	t		No rules set.		
Dynamic DNS	5				+
DNS Cache	• <			Apply	Cancel
UPnF	2				
RIP Setur					
Bridge Mode					

Fig.2-34 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.

Overview	Internet	WiFi	Setting	U	SB	MoCA	Status
Parental Con Advan Port Mapp Fire IP Filte DMZ H Dynamic D DNS Ca	iced bing wall ring dost DNS iche		^o address of the mmend you, for using them	device, enumera		appings, and a	add or
RIP Se	PnP	UPnP Port Map	ping				
Bridge M	ode	Service Name	LAN IP	Protocol	Private Port	Public Po	ort
Diagnos	tics						
AC base Passthro	uch					Apply	Cancel

Fig.2-35 Internet\UPnP

RIP Setup

This page allows configuration of RIP parameters related to authentication, destination 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.

Prental Contra Advancei Port Mapping Erevall Port Filtering DMZ Host Opramic DNS DNS Cache UPnP Rif Stende Diagnostics Acc base Passthrough Chable RIP Adventisement Timer Cable RIP Adventisement Timer Cable RIP Adventisement Timer Cable RIP Cable RIP </th <th>Overview In</th> <th>ernet</th> <th>WiFi</th> <th>Setting</th> <th>USB</th> <th>MoCA</th> <th>Status</th>	Overview In	ernet	WiFi	Setting	USB	MoCA	Status
IP Filtering Port Filtering DMZ Host Dynamic DNS DNS Cache UPnP RIP Setup Bridge Mode Diagnostics No rules set. Interface RIP Configuration Table Interface Neighbor Version Authentication Interface Neighbor Version Type Key id Key i	Advanced Port Mapping	This repor destii	page allows configura ting intervals. RIP aut nation address.	tion of RIP parameter	s related to authent	ication, destination IP a	
DMZ Host No rules set. Dynamic DNS DNS Cache UPnP RIP Setup Bridge Mode Diagnostics IXC base Passthrough Enable RIP Advertisement Timer Enable RIP Advertisement Timer Enable RIP Enable NAT RIP Routed Subnet Enable WAN Provisioning	IP Filtering	Ro	oute Table				
Dynamic DNS DNS Cache UPnP RIP Setup Bridge Mode Diagnostics ACC base Passthrough Enable RIP Advertisement Timer Enable RIP Advertisement Timer Enable RIP Advertisement Timer Enable RIP Enable RIP Advertisement Timer Enable RIP Inable NAT RIP Routed Subnet Enable WAN Provisioning	Port Filtering	De	stination IP Address	Destination Subnet	Mask Geteway		
DNS Cache UPnP RIP Setup Bridge Mode Diagnostics Activentication Interface Neighbor Version Type Key ld Key ld <t< td=""><td>DMZ Host</td><td></td><td></td><td></td><td>No rules set.</td><td></td><td></td></t<>	DMZ Host				No rules set.		
UPnP RIP Setup Bridge Mode Diagnostics IAC base Passthrough Enable RIP Advertisement Timer Enable NAT RIP Routed Subnet Enable WAN Provisioning I Interface RIP I	Dynamic DNS						+
RIP Setup Bridge Mode Diagnostics IAC base Passthrough Enable RIP Advertisement Timer Enable NAT RIP Routed Subnet Enable NAT RIP Routed Subnet Enable NAT RIP Routed Subnet Enable WAN Provisioning							
Bridge Mode Interface Neighbor Version Type Authentication Diagnostics No rules set. AC base Passthrough Enable RIP		IP	Interface RIP Config	uration Table			
AC base Passthrough		Inte	erface Neighbor Ver			Status	
Enable RIP Advertisement Timer 30 Enable NAT RIP Routed Subnet Enable WAN Provisioning	Diagnostics				No rules set.		
Advertisement Timer 30 Enable NAT RIP Routed Subnet Enable WAN Provisioning ON	IAC base Passthrough						+
Enable WAN Provisioning		En	able RIP				OF
Enable WAN Provisioning		Ad	vertisement Timer			30	
							OF
Notice: Use proxy mode when disable WAN Provisioning		En	able WAN Provisionir	ıg			ON
			i Notice: Use pr	roxy mode when disat	le WAN Provisionin	ıg	
Apply Cance						Apply	Cancel



Bridge Mode

This page displays configuration Bridge Mode to internet.

Overview	Internet	WiFi	Setting	USB	MoCA	Status
Parental C Adv Port Ma	anced	Router Co				
F	irewall Itering	Operating Mode			IPv6 + IPv4 Dual S	itack 🔻
Port Fi	ltering Z Host					
Dynami						
DNS	Cache UPnP				Apply	Cancel
RIP Bridge	Setup					
	ostics					
AC base Passth						

Fig.2-37 Internet\Bridge Mode

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
Parental Ad		Diagnosti This page provides diag		n IP connectivity pr	roblems.	
	lapping Firewall	Diagnostic Utility			Ping	¥
IP F	iltering	Ping Test Para	meters			
	iltering //Z Host	Target Ping Size			56	
Dynam	nic DNS	Number of Ping	S		3	
DNS	Cache	Ping Test Resu	lts			
RI	P Setup					
	e Mode					
Diag IAC base Passt	nostics hrough					
				Start Test	Abort Test CI	ear Results

Fig.2-38 Internet\Diagnostic

MAC base Passthrough

This page allows you configure passthrough CPEs via MAC address. (bypass NAT)

Overview	Internet	WiFi	Setting	USB	MoCA	Status
Parental (Adv	Control vanced	MAC bas This page allows you co			ess (bypass NAT).	
	apping Firewall	MAC Address	List			
IP F	iltering	MAC Address				
Port F	iltering			No rules set.		
DM	IZ Host					
Dynam	ic DNS					+
DNS	Cache					
	UPnP				Apply	Cancel
RIF	Setup					
Bridge	e Mode					
Diag	nostics					

Fig.2-39 Internet\MAC base Passthrough

Wi-Fi Web Page Group

Schedule

Schedule the times when you want the Wi-Fi of your router to be turned on or off. When it is turned back on, you return to your chosen Wi-Fi settings.

Overview	Internet	WiFi	Setting	USB	MoCA	Status
Guest N Sc MA WiFi	letwork	Schedule the times whe back on, you return to you Schedule Functi During this time Schedule	n you want the WiFi of our chosen WiFi setting on the WiFi is		urned on or off. When	It is turned Disabled
	WMM	Days Of Week	Time	No rules set.	Apply	+ Cancel

Fig.2-40 Wi-Fi\Schedule

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.

Overview	Internet	WiFi	Setting	USB	MoCA	Status
	Madaganala	MAC Filte				
		This page allows config clients.	uration of the Access C	ontrol to the AP as	well as status on the c	onnected
	WPS					
M	AC Filter		Address to Allow/Blo		vork	
WiF	i Clients	WiFi 2.4G MAC	Address to Access Net	work	l	ON
Wi	Fi Radar	WiFi MAC Rest	rict Mode		Allow	•
	Reset	MAC Address				
	WIMM		٨	lo device added		
						+
		Add all currently	connected devices to I	list		+
		WiFi 5G MAC A	ddress to Allow/Block	k to access Netwo	rk	
		WiFi 5G MAC A	ddress to Access Netw	ork	1	ON
		WiFi 5G MAC R	estrict Mode		Allow	•
		MAC Address		lo device added		
			7	io device added		
						+
		Add all currently	connected devices to I	list		+
					Apply	Cancel

Fig.2-41 Wi-Fi\MAC Filter

WMM (Wi-Fi Multi-Media)

This page allows you to configure Wi-Fi Multi-Media (WMM). WMM is an implementation of Quality of Service (QoS) which is defined by the IEEE standard 802.11e.

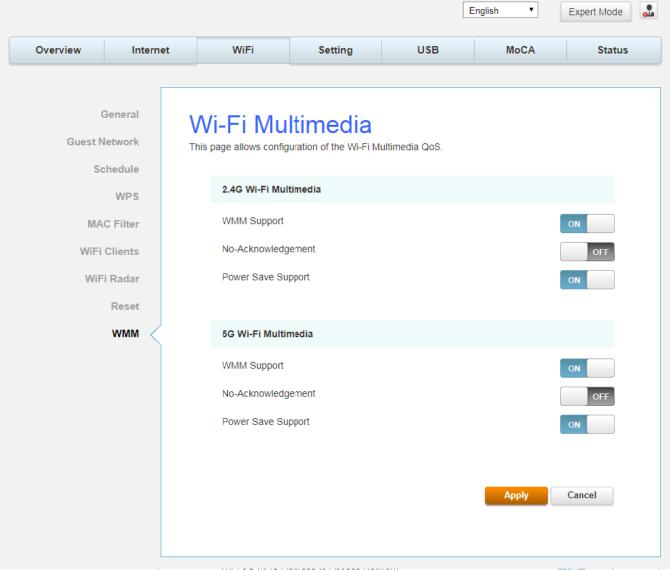


Fig.2-42 Wi-Fi\WMM

- WMM Suport- If enabled, the WMM information Element is included in beacon frame.
- No-Acknowledgement- When enabled, acknowledgment for data are not transmitted.
- **Power Save Support-** When Power Save is enabled, the AP queues packets for STAs that are in power-save mode. Queued packets are transmitted when the STA notifies AP that it has left power-save mode.

Settings Web Page Group

Remote Access

This page allows configuration of the Remote Access.

Overview	Internet	WiFi	Setting	USB	MoCA	Status
	LAN	Remote A This page allows config Allow Remote N Remote User Na	uration of the Remote lanagement	Access.	remote	OFF
	et Time LED	Port Number Remote Passwo	ord		80 Display C Chan	haracters
		IP Address			http://10.	10.144.59:80 Cancel

Fig. 2-43 Setting\Remote Access

- Allow Remote Management: It may help you to Enable or Disable the remote access function.
- **Remote User Name**: The user name that when you remote access able to login.
- Port Number: Configure specific port number when you remote access to GUI.
- **Remote Password**: The remote password that when you remote access able to login.
- IP Address: The IP address that you can use to remote access.

Internet Time

This page display configuration of time servers and 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
Lar	nguage	Internet T	ime			
Pas	ssword					
		This page allows you to	the modem's time co	nfiguration.		
Config	uration					
	LAN	Time Settings				
Remote /	Access	Automatically sy	nchronize with Interne	et time servers		ON
Interne	et Time 🧹	First NTP time s	erver clock.f	mt.he.net	•	
	LED	Second NTP tim	None None		•	
		Third NTP time	server None		•	
		Fourth NTP time	e server None		•	
		Fifth NTP time s	None		•	
		Time zone offse	t (GMT+0	8:00) Beijing, Chongqu	ing, Hong Kong, Urum	qi 🔻
					Apply	Cancel
					rippiy	ounou

Fig.2-44 Setting\Internet Time

USB Web Page Group

USB Basic

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

				E	English 🔻	Expert Mode
Overview	Internet	WiFi	Setting	USB	MoCA	Status
Media	Comment	USB Bas This page allows basic Enable the devi Netwok/Device Workgroup nam	control of the USB dev ces to be shared devic name		network. ASKEY_Device Workgroup	OFF

Fig.2-45 USB\USB Basic

Media Server

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

Overview						
Overview	Internet	WiFi	Setting	USB	MoCA	Status
USB Media S CUPS S	Server TI	Media Sec This page controls config Basic Setings Media Server Media Server Na	guration and scanning	of the cable moder	n's media server.	OFF

Fig.2-46 USB\Media Server

CPUS Server

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

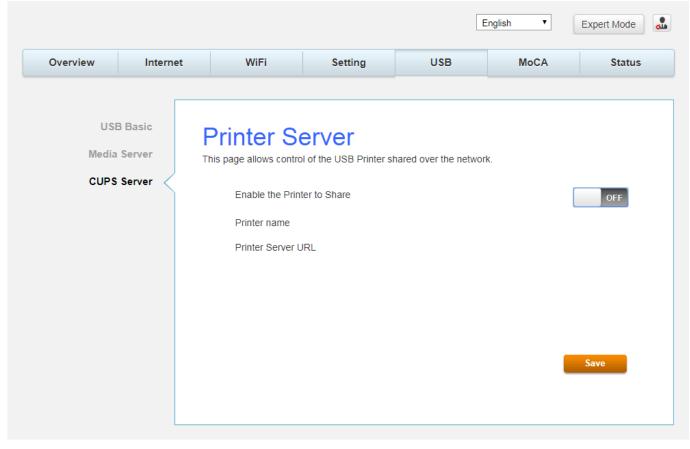


Fig.2-47 USB\CPUS Server

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 $5.15 \sim 5.25$ GHz 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 (>32cm/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 32cm 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.

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.