

150Mbps Wireless ADSL2/2+ Modem Router







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1 Introduction

The AR-7284WnA supports AnnexA mode. It provides four 10/100 base-T Ethernet ports for user. The device provides high-speed ADSL2+ broadband connection to the Internet or Intranet for high-end users, such as net bars and office users. It provides high performance access to the Internet, downstream up to 24 Mbps and upstream up to 1 Mbps. The device supports WLAN access to the Internet, such as WLAN AP or WLAN device. It complies with IEEE 802.11b/g, IEEE 802.11n specifications, WEP, WPA, and WPA2 security specifications.

You can configure the router by running the Setup Wizard in the CD-ROM provided in the package. The wizard provides quick setup for Internet connection, Ethernet WAN Internet connection, SSID, wireless security, firmware upgrade and changing router's password. When you start the Setup Wizard, you will get the following Welcome screen. Please choose the language to start with and follow the easy steps in the Wizard. No instruction for the Setup Wizard is given here.

If you lost the CD-ROM or you prefer the traditional web setup, please follow the procedures in Manual to configure the router



1.1 Package List

- 1 x AR-7284WnA or AR-7284WnB
- 1 x external splitter
- 1 x power adapter
- 2 x telephone cables (RJ-11)
- 1 x Ethernet cable (RJ-45)
- 1 x Quick Installation Guide(QIG)
- 1 x CD (Multi-languages EZmax Wiard / QIG, USB driver & English Manual)
 - 2

1.2 Safety Cautions

Follow the following instructions to prevent the device from risks and damage caused by fire or electric power:

- Use volume labels to mark the type of power.
- Only use the power adapter packed within the device package.
- Pay attention to the power load of the electric outlet or power extension cord. An overloaded power outlet or damaged lines and plugs may cause electric shock or fire accident. Check the power cords regularly. If you find any damage, replace it as soon as possible.
- It's necessary to prepare proper space for heat dissipation to avoid damage caused by overheating. The long and thin holes on the device are designed for heat dissipation and to ensure that the device works normally. Do not cover these heat dissipation holes.
- Do not put this device in high temperature environment and avoid direct sunlight.
- Do not put this device in humid or watery environment. Do not spill any fluid on this device.
- Do not connect this device to any PCs or electronic products, unless our customer engineer or your broadband provider instructs you to do so, because any wrong connection may lead to electric or fire risk.
- Do not place this device on an unstable surface.

1.3 LEDs and Interfaces

Front Panel



Figure 1 Front panel

The following table describes the LEDs of the device.

LED	Color	Status	Description			
		Off	The power is off.			
	Green	0	The power is on and the initialization			
Û		On	is normal.			
	Red	On	The device is initiating.			
	Reu	Blinks	The firmware is upgrading.			
		Off	No LAN link.			
		Plinko	Data is being transmitted through			
LAIN 1/2/2/4	Green	DIIIIKS	the LAN interface.			
1/2/3/4			0	The connection of LAN interface is		
		On	normal.			
		Off	No WLAN connection.			
<u> </u>	Green		Blinks	Data is transmitted through the		
1		DIIIIKS	WLAN interface.			
		On	The connection of WLAN interface is			
		011	normal.			
		Off	No USB signal is detected.			
•	Green	Blinks	Data is passing through USB port.			
						On
		Off	Initial self-test is failed.			
	Croon	Blinks	The device is detecting DSL signal.			
ADOL	Green	On	The DSL line connection is			
			established.			
Internet	Green	Off	The device is running under Bridge			

LED	Color	Status	Description		
			mode, DSL connection is not		
		-	present, or the power is off.		
		On	Connected to network.		
	Red	On	Network connection failed.		
		On	The WPS indicator will light for 5 minutes after the WPS service is registered successfully.		
WPS	Green	Blink Green	 The WPS indicator will light for 0.2s, and then off for 0.1s when the WPS button is pressed and the network card is ready for register. The WPS indicator will blink every 0.1s to indicate the WPS service fails to register. The WPS indicator lights for 5 times and off for 0.5s to indicate there are two or more wireless network cards register at the same time. 		
		Off	WPS service is not ready or WPS service has been setup successfully.		

Rear Panel



Figure 2 Rear panel

The following table describes the interface of the device.

Interface/Button	Description				
Line	RJ-11 interface that connects to the telephone set through the telephone cable.				
WPS/Reset	 Press the button for 3 seconds to enable WPS. Press the button for 8 seconds to restore factory default configurations and reboot the device. 				
LAN1/2/3/4	Ethernet RJ-45 interface is connected to the Ethernet interfaces of computers or Ethernet devices.				
0 \	USB device interface is connected to PC or other network devices.				
Power	Power Jack that connects to power adapter. The power adapter output is: 12 V DC, 800 mA.				
ON/OFF	Power switch.				

1.4 System Requirements

Recommended system requirements are listed as follows:

- An 10 baseT/100BaseT Ethernet interface on your PC
- A hub or switch (connected to multiple PCs through one of Ethernet interfaces on this device)
- Operating system: Windows 98SE, Windows 2000, Windows ME, or Windows XP

 Internet Explorer V5.0 or higher, Netscape V4.0 or higher, or Firefox 1.5 or higher

1.5 Features

The device supports the following features:

- Various line modes
- External PPPoE dial-up access
- Internal PPPoE and PPPoA dial-up access
- Leased line mode
- Zero installation PPP bridge mode (ZIPB)
- 1483B, 1483R, and MER access
- Multiple PVCs (up to eight), PVCs are independent
- Single PVC with multiple sessions
- Multiple PVCs with multiple sessions
- Binding PVC ports
- 802.1Q and 802.1P protocol
- DHCP server
- NAT and NAPT
- Static route
- Firmware upgrade via Web, TFTP and FTP
- Reset to the factory default setting
- DNS relay
- Virtual server
- DMZ
- Web user interface
- System status display
- PPP session PAP and CHAP
- IP filter
- IP QoS
- Remote access control
- Remote management
- Backup and restoration of configuration file
- Ethernet interface supports crossover detection, auto-correction and polarity correction
- UPnP

2 Hardware Installation

2.1 Connecting the ADSL Router

Step 1 Connect the 'Line' port of the device and the 'Modem' port of the ADSL splitter with a telephone cable. Connect the phone to the 'Phone' port of the splitter through a telephone cable. Connect the incoming line to the 'Line' port of the splitter.

The splitter has three ports:

- Line: Connect to the phone port on the wall (RJ-11 jack).
- Modem: Connect to the DSL port of the device.
- Phone: Connectto a telephone set.
- Step 2 Connect the LAN port of the device to the network card of the PC through an Ethernet cable (MDI/MDIX).

Use twisted-pair cables to connect with the Hub or switch.

Step 3 Plug one end of the power adapter to the wall outlet and connect the other end to the Power port of the device.

Connection type 1: Figure 3 shows the application diagram for the connection of the device, PC, splitter and telephone sets, when no telephone set is placed before the splitter.

Note:



Figure 3 Connection diagram (without telephone sets before the splitter)

Connection type 2: Figure 4 displays the application diagram for the connection of the device, PC, splitter and telephone sets when a telephone set is placed before the splitter. As illustrated in the following figure, the splitter is installed

close to the device.



Figure 4 Connection diagram (with a telephone set before the splitter) Connection 1 is recommended.

Note:

When connection type 2 is used, the filter must be installed close to the telephone cable. See Figure 4. Do not use the splitter to replace the filter.

Installing a telephone before the splitter may cause connection problem between the device and the central office, or failure of Internet access, or slow connection speed. If you really need to add a telephone set before the splitter, you must add a microfilter before a telephone set. Do not connect several telephones before the splitter or connect several telephones with one microfilter.

2.2 USB Installation

To connect the DSL gateway to the USB port of the PC, follow the instructions listed as follow:

- Step 1 Connect one end of the USB cable to the USB port of the DSL gateway. As the cable has two different connectors and each connector is keyed, you may need to try both connectors and different orientations.
- Step 2 Connect the other end of the USB cable into the USB port of the PC.
- **Step 3** For USB installation on Windows XP, once the PC powers up, a message appears in the system tray indicating that new hardware is found.



Step 4 The Found New Hardware Wizard dialog box appears. Select Install the software automatically (Recommended) and insert the Manual and Driver CD-ROM. Click Next. The system searches CD-ROM for the best USB driver.



Step 5 The dialog will instruct you to choose driver from specific location.



3 About the Web Configurator

This chapter describes how to configure the device by the Web-based configuration utility.

3.1 Access the Device

Follow the following instructions to access the device for the first time.

- Step 1 Open the Internet Explorer (IE) browser and enter http://192.168.2.1.
- Step 2 The Login page shown in the following figure appears. Enter the user name and password.
 - The user name and password of the super user are **admin** and **1234**.
 - The user name and password of the normal user are user and user.

$ o \rangle$	Ð	85 RN	Ć۲3	0	D Y	202
රස		LE TOGETHER				-
0	80	ረንደብ	\$	O _C	80	
Input us	ername and	l password	UserNar Passwo	ne admin - ord eeee login		

12

If you successfully logged in as the super user, the web page as shown in the following figure appears.



3.2 Setup

3.2.1 Wizard

Wizard enables fast and accurate configuration of Internet connection and other important parameters. The following sections describe these configuration parameters.

When subscribing to a broadband service, you should be aware of the connection method. Your physical WAN device can be Ethernet, DSL, or both of them. Technical information about the properties of your Internet connection is provided by your Internet service provider (ISP). For example, your ISP should inform you whether you are connected to the Internet using a static or dynamic IP address, or the protocol, such as PPPoA or PPPoE, that you use to communicate over the Internet.

Step 1 Choose **Setup** > **Wizard**. The page shown in the following figure appears.



Step 2 Click Setup Wizard. The page shown in the following figure appears.

FOIMAX							
NETWONONG PEOPLE TOOFTHER	Selup	Advanced	Managemr	nt Statut	halp	083	Ó
Setup Weard	WELCOM	E TO SETUP WIZA	RD				
Internet Setup	This witard will guide you through a step-by-step process to configure your new router and connect to the Internet.						
Wreless			• Ste	1 : Set Time and I	Date		
Local Network			• Ste	2 : Setup Internet	Connection		
Time and Date			• Ste	3 : Configure Wire	less Network		
Logout			• Ste	9 4 : Completed and	Quit		
				Next Can	cel		

Step 3 There are four steps to configure the device. Click Next to continue.

EDİMAX	
NETWORKING PEOPLE TOGETHER	Setup Advanced Management Status help
tup	STEP 1: SET TIME AND DATE
Wizard	
Internet Setup	The Time Configuration option allows you to configure, update, and maintain the correct time on the internal system cloc from this section you can set the time some that you are in and set the XTP (Network Time Portocol) Server, Davidit
Wireless	Saving can also be configured to automatically adjust the time when needed.
Local Network	
Time and Date	IME SETTING
Logout	Automatically synchronize with Internet time servers
	1st NTP time server : 192.188.2.10
	2th NIP time server : 192.168.2.100
г	Zth NIP time server : 1921682300
<u>1</u>	Zth NIP time server : 192.168.2.100 IME CONFIGURATION Time Zone : [(GMT+00.00)Being, Horg Kong
Ţ	Time Zone : (CMT+00:00) Being, Hong Kong
	Zith NTP time server : 192.169.2.100 Ime Constant : (CMF-00:00) Being, Hong Kong Ime Zone : (CMF-00:00) Being, Hong Kong Image: Constant : Yoar Mon Days Daylight Saving End : Yoar Mon Days Hour Mon Sec

Step 5 Configure the Internet connection.

Select the country and ISP. Set the VPI and VCI. If you failed to find the country and ISP from the drop-down lists, select **Others**. Click **Next**. If the **Protocol** you selected is **PPPoE** or **PPPoA**, the page shown in either of the two following figures appears.

STEP 2: SETUP INTERNET CONNECTION								
Please select your ISP (Internet Service Provider) from the list below.								
Protocol :	PPPoE -							
Encapsulation Mode:	LLC 👤							
VPI :	0	(0-255)						
VCI :	35	(32-65535)						
Search Available PVC :	Scan							
PPPOE/PPPOA Please enter your Username and Password as provided by your ISP (Internet Service Provider). Please enter the information exactly as shown taking note of upper and lower cases. Click "Next" to continue.								
Username	:							
Password	:							
Confirm Password	:							

STEP 2: SETUP INTERNET CONNECTION		
Please select your ISP (Internet Service Provider) from	the list below.	
Protocol :	PPPoA	
Encapsulation Mode:		_
VPI :	0	(0-255)
VCI :	35	(32-65535)
Search Available PVC :	Scan	
PPPOE/PPPOA Please enter your Username and Password as provided information exactly as shown taking note of upper and	l by your ISP (Internet Se I lower cases, Click "Next"	vice Provider). Please enter the to continue.
Username :		_
Password : Confirm Password :		
Back	Next Cancel	
Set the user name and payour ISP. If the Protocol is Dyna	assword her I mic IP , the	e,which is provided by e page shown in the
following figure appears.		-
STEP 2: SETUP INTERNET CONNECTION		

Please select your ISP (Internet Service Provider) from the list below.	
Protocol : Dynamic IP 💌	
Encapsulation Mode: LLC	
VPI : 0	(0-255)
VCI: 35	(32-65535)
Search Available PVC : Scan	
Back Next Cancel	

Click $\ensuremath{\textit{Next}}\xspace$, the page shown in the following figure appears.

STEP 3: CONFIGURE WIRELESS NETWORK

Your wireless network is enabled by default. You can simply uncheck it to disable it and click "Next" to skip configuration of wireless network.

Enable Your Wireless Network : 🗵

Your wireless network needs a name so it can be easily recognized by wireless clients. For security purposes, it is highly recommended to change the pre-configured network name.

Wireless Network Name (SSID) : edimax_

Select "Visible" to publish your wireless network and SSID can be found by wireless clients, or select "Invisible" to hide your wireless network so that users need to manually enter SSID in order to connect to your wireless network.

Visibility Status : 💿 Visible 🔿 Invisible

In order to protect your network from hackers and unauthorized users, it is highly recommended you choose one of the following wireless network security settings.

None	Se	curity Level	Best
None	C WEP	C WPA-PSK	C WPA2-PSK
Security Mode:No Select this option if	ne Fyou do not want to activa	te any security features.	

Back Next Cancel

Configure the wireless network. Enter the information and click **Next**.



STEP 4: COMPLETED AND RESTART									
etup complete. Click "Back" to review or modify settings.									
f your Internet connection does not work after restart, you can try the Setup Wizard again with alternative settings or use Ianual Setup instead if you have your Internet connection details as provided by your ISP.									
ETUP SUMMARY									
Below is a detailed summary of your settings. Please print this page out, or write the information on a piece of paper, so you can configure the correct settings on your wireless client adapters.									
Time Settings :	1								
NTP Server 1 :	192.168.2.10								
NTP Server 2 :	192.168.2.100								
Time Zone :	-08:00								
Daylight Saving Time :	0								
VPI / VCI :	0/35								
Protocol :	Dynamic IP								
Connection Type :	LLC								
Wireless Network Name (SSID) :	edimax_								
Visibility Status :	0								
Encryption :	None								
Pre-Shared Key :									
WEP Key :									
Back Apply Cancel									

If the **Protocol** is **Bridge**, the page shown in the following figure appears.

STEP 2: SETUP INTERNET CONNECTION									
Please select your ISP (Internet Service Provider) from the list below.									
Protocol : Bridge									
Encapsulation Mode: LLC									
VPI : 0	(0-255)								
VCI : 35	(32-65535)								
Search Available PVC : Scan									
Back Next Cancel									

STEP 2: SETU	P INTERNET CONNECTION
lease select your IS	⁹ (Internet Service Provider) from the list below.
	Protocol : Static IP
	Encapsulation Mode: LLC
	VPI : 0 (0-255)
	VCI: 36 (32-65535)
	Search Available PVC : Scan
You have selected	Static IP Internet connection. Please enter the appropriate information below as provided by your ISP. feature will not work in all cases so please enter the VPI/VCI numbers if provided by the ISP.
Click Next to contir	Je.
	IP Address .
	Subnet Mask :
	Subnet Mask : Default Gateway :

Enter the **IP Address**, **Subnet Mask**, **Default Gateway**, and **Primary DNS Server**. Click **Next**. The page shown in the following page appears.

'our wireless network is enab vireless network.	oled by default. You can sin	nply uncheck it to disable it and	click "Next" to skip configuratior
Enab	le Your Wireless Network	<: 🗹	
'our wireless network needs ecommended to change the	a name so it can be easily i pre-configured network n	recognized by wireless clients. F ame.	or security purposes, it is highly
Wirele	ss Network Name (SSID)): edimax_	
elect "Visible" to publish you vireless network so that user	r wireless network and SSI s need to manually enter S	D can be found by wireless clier SID in order to connect to you	nts, or select "Invisible" to hide y r wireless network.
	Visibility Status	s: O Visible 💿 Invisible	
n order to protect your netw ollowing wireless network se	vork from hackers and unau curity settings.	uthorized users, it is highly recor	nmended you choose one of the
	Se	curity Level	Best
None			

Back Next Cancel

Figure 5

Step 6 Configure the wireless network. Enter the information and click Next.

STEP 4: COMPLETED AND RESTART									
Setup complete. Click "Back" to review or modify settings.									
f your Internet connection does not work after restart, you can try the Setup Wizard again with alternative settings or use Ianual Setup instead if you have your Internet connection details as provided by your ISP,									
SETUP SUMMARY									
Below is a detailed summary of your settings. Please print this page out, or write the information on a piece of paper, so you can configure the correct settings on your wireless client adapters.									
Time Settings :	1								
NTP Server 1 :	192.168.2.10								
NTP Server 2 :	192.168.2.100								
Time Zone :	-08:00								
Daylight Saving Time :	0								
VPI / VCI :	0/35								
Protocol :	Static IP								
Connection Type :	LLC								
IP Address :									
Subnet Mask :									
Default Gateway :									
Primary DNS Server :									
Wireless Network Name (SSID) :	edimax_								
Visibility Status :	1								
Encryption :	None								
Pre-Shared Key :									
WEP Key :									
Back	Apply Cancel								



Note:

In each step of the Wizard page, you can click **Back** to review or modify settings in previous page. Click **Cancel** to exit the wizard page.



3.2.2 Internet Setup

Choose **Setup** > **Internet Setup**. The page shown in the following figure appears. In this page, you can configure the WAN interface of the device.

TOMAY										
NETWORKING PROPLE TODETHER	0.0	inger en	-	1000	9/1					
	Swinb				ageronal	Statun		HIR. N		
setup	INTERNET	SETUP								
Internet Setup	Choose "Add	i", "Edit", or "	Delete'	to conf	gure WAN Interfac	es.				
Wreless	I									
Local Network	WAN SETTIO									
		VPI/VCI	ID	ENCAP	Service Name	Protocol	State	Status	Default Gateway	Action
	F	0/35	0	шс	pppoe_0_0_35_0	PPPOE	1	Disconnected	Г	Connect
					and the second second					
					Add E	dit Delet	e			

Click Add. The page shown in the following figure appears.

EDIMAX	00 mm 🐨	0	Cogout
NETWORKING PEOPLE TOGETHER	Setup Advanced Managem	unit Status	
etup Wizard	INTERNET SETUP		
Internet Setup	This screen allows you to configure an ATM PV	C identifier (VPI and VCI)	and select a service category.
Wreless			
	ATM PVC CONFIGURATION		
Time and Date	VPI :	0	(0.955)
	VCI :	35	(12,65535)
	Service Category :	UBR With PCR	(4-0555)
	Peak Cell Rate :	0	(cels/s)
	Sustainable Cell Rate :	0	(calt/s)
	Maximum Burst Size :	0	(cells)
	CONNECTION TYPE	Puidaina	
	For availation Mode :		
	PRO2 10 VI AN ID -		
	002.10 10110.	10	(0 = disable, 1 - 4094)
	NETWORK ADDRESS TRANSLATION SETTIN	69	
	Enable Bridge Service :	R	
	Service Name :	br_0_35_0_1	1
		Apply Cancel	1
		- PEA Contest	1

Click Apply. The page shown in the following figure appears.

FOIMAX										
NETWORKING PEOPLE TOGETHER	Setup	Advances		Man	agement	Status	1	ielp-	-8-83 	Q
etup	INTERNET S	ETUP								
			_				_			
Internet Setup	Choose "Add"	, "Edit", or "I	Delete'	to confi	igure WAN interfac	05.				
Wineless		54 - 157			-					
Local Network	WAN SETUP									
Time and Date		VPI/VCI	VLAN	ENCAP	Service Name	Protocol	State	Status	Default	Action
Logout	E	0/35	0	шс	poppe 0 0 35 0	PPPOE	1	Disconnected	Gateway	
	Г	0/35	0	LLC	br_0_35_0_1	Bridge	1	Disconnected		•
					Add E	dit Dele	te			
					Add C	Dele	ie .			

3.2.3 Wireless Setup

This section describes the wireless LAN and some basic configuration. Wireless LANs can be as simple as two computers with wireless LAN cards communicating in a pear-to-pear network or as complex as a number of computers with wireless LAN cards communicating through access point which bridges network traffic to wired LAN.

Choose Setup > Wireless Setup. The Wireless Setup page shown in the following figure appears.

EDIMAX						
NETWORKING PEOPLE TOGETHER	Setup	Advanced	Manager	ent Stetur	hèla	0
Setup	WHITELESS	SETTINGS - WIR	ELESS BASIC			
Weard						
Internet Setup	Configure	your wireless basic	settings.			
Wireless				Wireless Basi	c	
Wineless Basic						
Wireless Security	WIRELESS	SETTINGS - WIR	ELESS SECURIT	Y		
Local Network						
Time and Date	Configure	your wireless secur	ity settings.			
Logout				Wireless Secur	ity	

3.2.3.1 Wireless Basics

In the **Wireless Setup** page, click **Wireless Basics**. The page shown in the following figure appears. In this page, you can configure the parameters that wireless LAN clients can used to connect to this device.

EDIMAX							
METWORKING PEOPLE TOLETHER	Satup	Advanced	Management	Stelus	help	2021	٩
Setup Woard	WIRELES	S BASIC					
Internet Setup Wireless	Use this set need to be	ction to configure to duplicated to your	he wireless settings wireless clients and	for your router. Pl PC.	ease note that chang	es made in this se	ction will also
Wireless Basic Wireless Security	WIRELESS	NETWORK SETTIN	65				
Local Network		Enable V	Vireless: 🗵				
Time and Date		Enable MultiAP Is	olation:				
: Logout	Wireles	ss Network Name Visibility D Wireless C 802.11 Band	(SSID): edimax_ Status: C Visble puntry: China hannel: 2.437GH Mode: 802.11g Width: 20 M	z - CH5	J	less devices and D	
	Please take	note of your SSID a	is you will need to d	Apply Cano	settings to your wire	iess devices and P	C.

Click **Apply** to save the settings.

3.2.3.2 Wireless Security

In the **Wireless Setup** page, click **Wireless Security**. The page shown in the following figure appears. Wireless security is vital to your network to protect the wireless communication among wireless stations, access points and wired network.

EDIMAX							
METWORKING PEOPLE TOOFTHER	Satup	Advanced	Managemen	Status	help	1083	٢
Setup Wicard	WIRELES	SS SECURITY					
Internet Setup Wireless	Use this se will also ne	ection to configure t ed to be diuplicated	he wireless security to your wireless die	settings for your ro ents and PC.	outer. Please note t	hat changes made	on this section
Wreless Basic Wreless Security	WIRELESS	SECURITY MODE					
Local Network Time and Date	To protect including: of securit	ct your privacy you (WEP, WPA and WF y.	can configure wirele A2. WEP is the orig	ss security features inal wireless encryp	. This device suppor tion standard. WPA	ts three wireless s and WPA2 provid	ecurity modes es a higher level
Logbut		Security	Mode : None	2			
	Please take PC.	note of your SSID	and security Key as	Apply Canc	plcate the same set	ttings to your wire	less devices and

Click **Apply** to save the settings.



3.2.4 Local Network

You can configure the LAN IP address according to actual requirements. The preset IP address is 192.168.1.1. You can use the default settings and DHCP service to manage the IP settings for the private network. The IP address of the device is the base address used for DHCP. To use the device as DHCP server on your LAN, the DHCP IP address pool must be compatible with the IP address of the device. The IP address available in the DHCP IP address pool changes automatically if you change the IP address of the device.

You can also enable the secondary LAN IP address. The two LAN IP addresses must be in different networks.

Choose **Setup** > **Local Network**. The **Local Network** page shown in the following figure appears.

EDIMAX							
NETWORKING FEOPLE TOBETHER	Satup	Advanced	Management	Statut	help	1.11.5	Ó
Setup Weard	LOCAL NE	TWORK					
	This section	n allows you to conf	igure the local netw	ork settings of you	r router. Please no	e that this section is	optional and
Wireless	you should	not need to change	e any or the settings	nere to get your	network up and ru	arang.	
Local Network							
Time and Date	ROUTER SE	TTINGS					
Logout	Use this se the IP Adk may need	action to configure t dress that you use t to adjust your PC's	the local network set o access the Web-b network settings to	ttings of your routi used management access the netwo	er. The Router IP A interface. If you ch rk again.	ddress that is config ange the IP Address	ured here is i here, you
	Ro	uter IP Address :	192.168.2.1				
		Subnet Mask :	255.255.255.0				
		2	Configure the secon	nd IP Address and	Subnet Mask for LA	N	
		IP Address :	192.168.1.1				
		Subnet Mask :	255.255.255.0				

By default, **Enable DHCP Server** is selected for the Ethernet LAN interface of the device. DHCP service will assign IP address to client computer connected to LAN interface. When the device acts as DHCP server, it will become the gateway of all computers on intranet. If you change the IP address of the device, you must also change the range of IP addresses in

the pool used for DHCP. The IP address pool can contain up to 253 IP addresses.

DHCP SERVER SETTINGS (OPTIONAL)

Use this section to configure the built-in DHCP Server to assign IP addresses to the computers on your network.

	Enable DHCP Server	
DHCP IP Address Range :	192.168.2.2	to 192.168.2.254
DHCP Lease Time :	100	(seconds)
	Ap	Cancel

Click **Apply** to save the settings.

In the **Local Network** page, you can assign IP addresses on the LAN to specific individual computers based on their MAC addresses.

DHCP RESERVATION	IS LIST		
Status	Computer Name	MAC Address	IP Address

Add Edit Delete

Click **Add** to add static DHCP addresses (optional). The page shown in the following figure appears.

ADD DHCP RESERVATION (OPTIONAL)

Enable :	
Computer Name :	
IP Address :	
MAC Address :	

Apply Cancel

Select **Enable** to reserve the IP address for the designated PC with the specified MAC address.

The **Computer Name** helps you to recognize the PC with the MAC address. For example: Father's Laptop.

Click **Apply** to save the settings.

After the DHCP reservation is saved, the DHCP reservations list displays the configuration.

If the DHCP reservations list table is not empty, you can select one or more items and click **Edit** or **Delete**.

The **NUMBER OF DYNAMIC DHCP CLIENTS** page shows the current DHCP clients (PC or Laptop) connected to the device and the detailed information of the connected computer(s).

Computer Name MAC Address IP Address Expire Time

3.2.5 Time and Date

Choose **Setup** > **Time and Date**. The page shown in the following figure appears.

TOMAX	
NETWORKING PEOPLE TOSETHER	Setup Advanced Management Status help
Setup Wizard	TIME AND DATE
Internet Setup	The Time Configuration option allows you to configure, update, and maintain the correct time on the internal system clock. From this section you can set the time zone that you are in and set the NTP (Network Time Protocol) Server. Daylight
Local Network	Samp can also be compared to automotoary apport the time when heeded.
Time and Date	TIME SETTING
	Automatically synchronize with Internet time servers Ist NTP time server: 192168.210 2th NTP time server: 192168.2100
	TIME CONFIGRATION
	Current Local Time: 2000-01-01 01-42:25 Time Zone: CARF-08:00) Beiling, Hong Kong Image: Carl (CARF-08:00) Beiling, Hong Kong Enable Daylight Saving Daylight Saving Start: 2000 Year 04 Mon 01 Day 02 Host 00 Mon 50C Daylight Saving Start: 2000 Year 04 Mon 01 Day 02 Host 00 Mn 00 Soc Daylight Saving End: 2000 Year 09 Mon 01 Day 02 Host 00 Mn 00 Soc
	Apply Cancel

In the **Time and Date** page, you can setup the time of the internal system clock. You can also set the time zone of the area of residence and the network time protocol (NTP) server. You can also configure daylight saving setting by selecting **Automatically synchronize with Internet time servers**.

Select the specific time server and the time zone from the corresponding item in drop-down lists. Select **Enable Daylight Saving** if necessary. Click **Apply** to save the settings.

3.2.6 Logout

Choose **Setup** > **Logout**. The page shown in the following figure appears. In this page, you can log out from web configuration menu.

EDIMAX	C C Anno C C C C C C C C C C C C C C C C C C
Setup Websird Internet Setup Writeles Local Network Time and Date Logout	LOGOUT Logging out will dose the browser. Loggout

3.3 Advanced

This section includes advanced features used for network management, security and administrative tools to manage the device. You can view status and other information that are used to evaluate system performance and troubleshooting.

3.3.1 Advanced Wireless Settings

This function is used to modify the standard 802.11 wireless settings. It is recommend not to change the default settings, because incorrect settings may impair the performance of
your wireless performance. The default settings provide the best wireless radio performance in most of environments.

EDIMAX	<u>00 00 00 00 0000000000000000000000000</u>
	Satur Advanced Management Statur Help
Advanced	ADVANCED WIRELESS ~ ADVANCED SETTINGS
Advanced Wireless	
Advanced Settings	Allows you to configure advanced features of the wireless LAN interface.
MAC Filtering	Advanced Settings
Security Settings	
WPS Settings	ADVANCED WIRELESS MAC FILTERING
Port Forwarding	
DMZ	Allows you to configure wireless frewall by denying or allowing designated MAC addresses.
Parental Control	MAC Filtering
Filtering Options	
QCS Canfig	ADVANCED WIRELESS - SECURITY SETTINGS
Firewall Settings	
DNS	Allows you to configure security features of the wireless LAN interface.
Dynamit; DNS	Security Settings
Notwork Tools	
Routing	ADVANCED WIRELESS ~ WPS SETTING
Schedules	
	Allows you to configure wireless WPS.
	WPB Setting

3.3.1.1 Advanced Settings

Select **Advance Settings.** The page shown in the following figure appears.

ΣΠΙΜΑΧ			$(\mathbb{C})_{re}$	2010		Logout
NETWORKING PEOPLE TOGETHER	Setup	Advanced Manage	ement Status	help	신상	0
Advanced	ADVANCE	D SETTINGS				
Advanced Settings MAC Filtering	These optic does not re your wireles	ans are for users that wish to char commend changing these setting s radio. The default settings shou	nge the behaviour of their is from the factory default ild provide the best wirele	802.11g wireless r . Incorrect settings ss radio performanc	adio from the standard set may impair the performan e in most environments.	ting. We ce of
WPS Settings	ADVANCED	WIRELESS SETTINGS				
Port Forwarding		Transmission Pate :	Auto T			
DMZ		Multicast Rate :	Lower ×			
		Transmit Power :	100% •			
Filtering Options	1	Beacon Period :	100	(20 ~ 1024)		
		RTS Threshold :	2346	(0 ~ 2347)		
Accessing		Fragmentation Threshold :	2345	(256 ~ 2346)		
Frewall Settings		DTIM Interval :	100	(1 ~ 255)		
DN5		Preamble Type :	long 💌			
Network Tools	SSID					
		Enable Wireless :	ম			
Schedules	w	ireless Network Name (SSID) ;	edimai_			
		Visibility Status :	C visible € Invisible			
-sopon		User Isolation :	Off 💌			
		Disable WMM Advertise :	Off 💌			
		Max Clients :	16	(0 ~ 32)		

These settings are only for technically advanced users who have sufficient knowledge about wireless LAN. Do not change these settings unless you know the effect of changes on the device.

GUEST/VIRTUAL ACCESS POINT-1	
Enable Wireless Guest Network :	
Guest SSID :	edimax_1
Visibility Status :	⊙ Visible ⊂ Invisible
User Isolation :	Off 💌
Disable WMM Advertise :	Off 💌
Max Clients :	16 (0 ~ 32)
GUEST/VIRTUAL ACCESS POINT-2	
Enable Wireless Guest Network :	
Guest SSID :	edimax 2
Visibility Status :	⊙ Visible O Invisible
User Isolation :	Off 🔽
Disable WMM Advertise :	Off V
Max Clients :	16 (9. 22)
	(U ~ 32)
GUEST/VIRTUAL ACCESS POINT-3	
Enable Wireless Guest Network	
Guest SSID :	edimax 3
Visibility Status :	© Visible O Invisible
User Isolation :	
Disable WMM Advertise :	Off V
Max Clients :	16 (2
	(U ~ 32)
	Apply Cancel

Click **Apply** to save the settings.

3.3.1.2 MAC Filtering

Select **MAC Filtering**. The page shown in the following figure appears.

EDIMAX	
NETWORKING PEOPLE TOSETHER	Setup Advanced Management Status help
Advanced	BLOCK MAC ADDRESS
Advanced Wireless	
Advanced Settings	Time of Day Restrictions A maximum of 16 entries can be configured
MAC Filtering	This page adds a time of day restriction to a special LAN device connected to the router. The "Current PC's MAC Address"
Security Settings	automatically displays the MAC address of the LAN device where the browser is running. To restrict another LAN device, click the "Other MAC Address" button and enter the MAC address of the other LAN device. To find out the MAC address of a
WPS Settings	Windows-based PC, open a command prompt window and type "pconfig /al".
Port Forwarding	
DMZ	BLOCK MAC ADDRESS
Parental Control	Username MAC Schedule
Filtering Options	Add Edt Delate
QOS Config	Con Conte
Frewall Settings	
Dynamic DNS	
Network Tools	
Routing	
Schedules	

Click $\ensuremath{\textbf{Add}}$. The page shown in the following figure appears. $\ensuremath{\mbox{add}}$ schedule rule

User Name :	
C Current PC's MACAddress :	00:1D:0F:19:91:C1
Other MAC Address :	
Schedule :	Always 💌 View Available Schedules
O Manual Schedule :	
Day(s) :	C All Week Select Day(s)
	🗖 Sun 🗖 Mon 🗖 Tue 🗖 Wed
	🗖 Thu 📕 Fri 📕 Sat
All Day - 24 hrs :	
Start Time :	: (hour:minute, 24 hour time)
End Time :	(hour:minute, 24 hour time)
	Submit Cancel

Click **Apply** to save the settings.

3.3.1.3 Security Settings

Select **Security Settings**. The page shown in the following figure appears.

TOMAX			- E (3_			Logaut
NETWORKING PEOPLE TOGETHER	Setup	Advanced	Management	Status	help	-02) O
Advanced	WIRELES	S SECURITY					
Port Forwarding							
Advanced Wireless	Use this se	ction to configure t	he wireless security set	ings for your rout	er. Please note th	at changes made	on this section
Advanced Settings	will also rie	eo to be oupscateo	to your wreless clients	and PC.			
Security Settings	WIRELESS	SSID					
DMZ		Selec	t SSID : tbs_0 •				
Parental Control							
Filtering Options	WIRELESS	SECURITY MODE					
QOS Config	To protor		an confer no window or	a rity fash ror. T	hir davica a mont	three wirelast co	o eity moder
Firewall Settings	including:	WEP, WPA and WP	A2. WEP is the original	wireless encryptic	n standard. WPA a	nd WPA2 provide	s a higher level
DNS	OF SOCOIL	,					
	WPS: The	condition of use Wi	PS, Must choose WPA-P	SK/WPA2-PSK Se	eurity, and boards	ast the SSID.	
Network Tools		Security	Mode : None				
	Please take	note of your SSID a	and security Key as you	will need to dupli	cate the same sett	ings to your wirele	ess devices and
Schedules	PC.						
				Apply Cancel			

Select the SSID that you want to configure from the drop-down list.



Select the encryption type from the **Security Mode** drop-down list. You can select **None**, **WEP**, **AUTO (WPA or WPA2)**, **WPA Only**, or **WPA2 Only**.

If you select **WEP**, the page shown in the following figure appears.

three wireless security modes d WPA2 provides a higher level node (802.118/6).
node (802.118/6).
node (802.118/G).
node (802.11B/G).
e router and the wireless you must enter 26 hex digits he most secure use of WEP set
nto a hexadecimal key using th keys, and a maximum of 13

Apply Cancel

If you select **AUTO (WPA or WPA2)**, **WPA Only**, or **WPA2 Only**, the page shown in the following figure appears.

WIRELESS SECURITY MO	DE
To protect your privacy y including: WEP, WPA and of security.	ou can configure wireless security features. This device supports three wireless security modes WPA2. WEP is the original wireless encryption standard. WPA and WPA2 provides a higher level
Secu	rity Mode : Auto(WPA or WPA2)
WPA	
Use WPA or WPA2 mod clients while maintaining h supports will be used. For not allowed access with \ gaming and legacy device	e to achieve a balance of strong security and best compatibility. This mode uses WPA for legacy igher security with stations that are WPA2 capable. Also the strongest cipher that the client best security, use WPA2 Only mode. This mode uses AES(CCMP) cipher and legacy stations are VPA security. For maximum compatibility, use WPA Only . This mode uses TKIP cipher. Some s work only in this mode.
To achieve better wireles	s performance use WPA2 Only security mode (or in other words AES cipher).
WPA-PSK does not requir	e an authentication server. The WPA option requires an external RADIUS server.
N Group Key Upda	VPA Mode : Auto(WPA or WPA2)-PSK
PRE-SHARED KEY	
Pre-S	hared Key :
Please take note of your S	ID and security Key as you will need to dunlicate the same settings to your wireless devices and
эс.	

Apply Cancel

Click **Apply** to save the settings.

3.3.1.4 WPS Settings

Select **WPS Settings**. The page shown in the following figure appears.

TOMAY	
NETWOMICHIG PEOPLE FOGETHER	Setup Advanced Management Status help
Advanced	WIRELESS WPS
Advanced Wireless	
Advanced Settings	WPS: The condition of use WPS, you can choose different auth mode in Security Setting page, and broadcast the SSID. The pin code will be saved when you press PIN button.
MAC Filtering	
Security Settings	
WPS Settings	WPS -
Port Forwarding	Enabled : 🔽
DMZ	Select SSID : edmax
Parental Control	Input Station PIN :
Filtering Options	WPS Session Status :
QOS Config	
Firewall Settings	Apply Cancel
DNS	
Dynamic DNS	
Network Tools	
Routing	
Schedules	
Logout	

WPS Authentication: The WPS service is enabled by default.

There are three setting methods you can use in the Wi-Fi Protected Setup. In order to use wps authentication, you can select one method from three methods.

- Press the WPS button on the rear panel for 3 seconds.
- In the **WPS Settings** page, click **PBC**. After setting, click **Apply** to make the setting effective.
- In the WPS Settings page, enter the PIN codes provided by station (STA), then click PIN. After settings, click Apply to take the settings effective.

3.3.2 Port Forwarding

This function is used to open ports on your device and redirect data from those ports to a single PC on your network (WAN-to-LAN traffic). It allows remote users to access services on your LAN, such as FTP for file transfers or SMTP and POP3 for e-mail. The device accepts remote requests for these services at your global IP address. It uses the specified TCP or UDP protocol and port number, and redirects these requests to the server on your LAN with the LAN IP address you specificed. Note that the specified private IP address must be within the available range of the subnet where the device is in.

Choose **ADVANCED** > **Port Forwarding**. The page shown in the following figure appears.

EDIMAX									
нетиолина неоные торетнея	Setup	Advanced	Mana	tement	Status	help	- ¹²	115	٢
Advanced	PORT FORW	ARDING							
Advanced Wireless									
Port Forwarding	Port Forwardin internal server	ng allows you to with a private 1	direct incomi IP address on	ng traffic fro the LAN sid	m the WAN side. The internal	se (identified b port is require	y protocol and d only if the ex	external port ternal port n	t)to the eeds to be
	converted to	a different port	number used	by the serv	er on the LAN	side. A maxim,	m of 32 entrie	s can be con	figured.
Parental Control	Select the ser	vice name, and	enter the ser	ver IP addre	ss and click "Ap	oply" to forwar	d IP packets fo	or this service	to the
Filturing Options	normally and	i will be the sa	ime as the "	ot modify Internal Po	"Internal Port rt Start" or "	External Port	End" if eithe	r one is mor	lified.
QOS Config									
Firewall Settings	DOBT LODWA	PORG CETUR							
	allegeneous	PUPPIG SETUP							
Dynamic DNS	Server Name	External Port Start	External Port End	Protocol	Internal Port Start	Internal Port End	Server IP Address	Rule	IP
Network: Tools				Ad	Edit Del	ete			
Routing				-					
Scheckalos									
Logout									

Click Add to add a virtual server.

PORT FORWARDING SETUP

Remaining number of entries that can be configured: 32

WAN Coppor	tion(c) · [nnnoo] (1350-			
WAN CONNEC	Name :	<u></u>			
© Select a f	Service : (Click to Se	elect)		-	
C Custom	Server :				
Sc	hedule : Always 💌	View Av	ailable Schedules		
Server IP A	ddress : 192.168.1				
External Port Start	External Port End	Protocol	Internal Port Start	Internal Port End	Remote Ip
		TCP 💌			
		TCP -			
		TCP -			
		TCP -			
		TCP -			
		TCP -			
		TCP -			
		TCP -			
		TCP -			
		TCP -			
		TCP -			
		TCP -			

Apply Cancel

Select a service for a preset application, or enter a name in the **Custom Server** field.

Enter an IP address in the **Server IP Address** field, to appoint the corresponding PC to receive forwarded packets.

The Ports show the ports that you want to open on the device. The **TCP/UDP** means the protocol type of the opened ports. Click **Apply** to save the settings.

3.3.3 DMZ

Since some applications are not compatible with NAT, the device supports the use of a DMZ IP address for a single host on the LAN. This IP address is not protected by NAT and it is visible to agents on the Internet with the correct type of software. Note that any client PC in the DMZ is exposed to various types of security risks. If you use the DMZ, take measures (such as client-based virus protection) to protect the remaining client PCs on your LAN from possible contamination through DMZ.

Choose **ADVANCED** > **DMZ**. The page shown in the following figure appears.

EDIMAX									
NETWORKING PEOPLE TOGETHER	Setup)	Advanced	Managomer	at Status	help	신성	0		
Advanced Advanced Wireless	DM2								
Port Forwarding	The DSL F Forwardin	Router will forward B g table to the DM2 I	P packets from the host computer.	WAN that do not be	along to any of the	applications configur	red in the Port		
Parental Control Filtering Options DOS Confla	Clear the 1	IP address field and	click "Apply" to dea	ctivate the DMZ host	t				
Firewall Settings	OM2 HOS								
DNS Dynamic DNS		WAN Connectio Enable DN	an: [pppce_0_0_] 12:	35_0 •					
Network Tools Routing	-	M2 Host IP Addre	ss :	Apply Canc	el				
Logout									

Click **Apply** to save the settings.

3.3.4 Parental Control

Choose **ADVANCED** > **Parental Control**. The **Parental Control** page shown in the following figure appears.

EDIMAX	
NETWORKING PEOPLE TODETHEN	Satup Advanced Management Status Helping
Advanced	
Advanced Wireless	PARENTAL CONTROL BLOCK WEBSITE
Port Forwarding	Liter LET (La Junio des) to independ filming
DM2	Costs Circ. (i.e. wiww.)aliko.com) co inglesment interning.
Parental Control	Block Website
Block Website	
Block MAC Address	PARENTAL CONTROL - BLOCK MAC ADDRESS
Filtering Options	Liber MAC software to produce and effection
QOS Config	Costs mare, address to information interrup.
Finewall Settings	Block MAC Address
DNS	
Dynamic DNS	
Network Tools	
Routing	
Schedules	
Logout	

This page provides two useful tools for restricting the Internet access. **Block Websites** allows you to quickly create a list of all websites that you wish to stop users from accessing. **Block MAC Address** allows you to control when clients or PCs connected to the device are allowed to access the Internet.

3.3.4.1 Block Website

In the **Parental Control** page, click **Block Website**. The page shown in the following figure appears.

EDIMAX							
NETWORKING PEOPLE FOGETHER	Setup	Advanced	Manageme	status	help	1.015	٢
Advanced	BLOCK WI	EBSITE					
Advanced Wireless							
Port Forwarding	This page al	lows you to block	websites. If enable	d, the websites list	ed here will be denie	ed access to clients	trying to browse
DMZ	CHAR WEDOW	¥+					
Parental Control		- A 4011					
Block Website	BLOCK WEE	ISTIE					
Block MAC Address		URL			Schedul	e	
Filtering Options			1	Add Edit	Delete		
QOS Config							
Frewall Settings							
DNS							
Dynamic DNS							
Network Tools							
Routing							
Schedules							
Logout							

Click Add. The page shown in the following page appears.

ADD SCHEDULE RULE



Enter the website in the **URL** field. Select the **Schedule** from drop-down list, or select **Manual Schedule** and select the corresponding time and days.

Click Submit to add the website to the BLOCK WEBSI					
BLOCK WEBSITE	ge shown in the folie	ming lighte appears.			
This page allows you to block that website.	websites. If enabled, the websites listed h	ere will be denied access to clients trying to browse			
Lock Website	101	Schadula			
	XXX.com	Always			
	Add Edit Dele	te			

3.3.4.2 Block MAC Address

In the **Parental Control** page, click **Block MAC Address**. The page shown in the following figure appears.

EDIMAX	
NETWONICHD PEOPLE TODETHER	Setup Advanced Management Status help
Advanced Advanced Wireless	BLOCK MAC ADDRESS
Port Forwarding	Time of Day Restrictions A maximum of 16 entries can be configured
DM2	This page adds a time of day restriction to a special LAN device connected to the router. The "Current PC's MAC Address"
Parental Control	automatically displays the MAC address of the LAN device where the browser is running. To restrict another LAN device, click the "Other MAC Address" button and enter the MAC address of the other LAN device. To find out the MAC address of a
Block Website	Windows-based PC, open a command prompt window and type "pconfig /al".
Block MAC Address	1
Filtering Options	RLOCK MAC ADDRESS
	Username MAC Schedule
Frewall Settings	Add Edd Dologo
	Yad Ear Dales
Dynamic DNS	
Network Tools	
Schedules	

Click Add. The page shown in the following figure appears.



Enter the user name and MAC address and select the corresponding time and days. Click **Submit** to add the MAC address to the **BLOCK MAC ADDRESS Table**.

3.3.5 Filtering Options

Choose **ADVANCED** > **Filtering Options**. The **Filtering Options** page shown in the following figure appears.

EDIMAX	
Advanced	Setup Advanced Management Status help
Advanced Wireless	FILTERING OPTIONS - INDOOND IP FILTERING
Port Forwarding	
DM2	Managa incoming traffic.
Parental Control	Inbound IP Filtering
Filtering Options	
Inbound IP Filtering	FILTERING OPTIONS OUTBOUND IP FILTERING
Outbound IP Filtering	
Bridge Filtering	Manage outgoing trame.
QOS Config	Outbound IP Filtering
Frewall Settings	
DNS	FILTERING OPTIONS BRIDGE FILTERING
Dynamic DNS	Liner MB/ software to proloment filtering. Lineful only in hydro mode
Network Tools	voes rem, awaress to imperient intering, voenalising in angle IIMAS.
Routing	Bridge Filtering.
Schedules	
Logout	

3.3.5.1 Inbound IP Filtering

By default, all incoming IP traffic that does not originate from the internal network is blocked when the firewall is enabled. Normal outbound requests created by web browsing, email and other software you run, work as usual as the requests originated from your internal network. The inbound filter allows you to create a filter rule to allow incoming IP traffic by specifying a filter name and you need to select at least one condition.

In the **Filtering Options** page, click **Inbound IP Filtering**. The page shown in the following figure appears.



Click **Add** to add an inbound IP filter. The page shown in the following figure appears.

NCOMING IP FILTERING		
Filter Name :		
Protocol :	Any 💌	
Source IP Type :	Any 💌	
Source IP Address :		
Source Subnet Mask :		
Source Port Type :	Any 💌	
Source Port :		(port or port:port)
Destination IP Type :	Any 💌	
Destination IP Address :		
Destination Subnet Mask :		
Destination Port Type :	Any 💌	
Destination Port :		(port or port:port)
Schedule :	Always 💌 View Availa	ble Schedules
WAN Interfaces (Configured in Ro	uting mode and with fi	irewall enabled only)
WAN Interfaces :	•	

Apply Cancel

Enter the **Filter Name** and specify at least one of the following criteria: protocol, source/destination IP address, subnet mask, and source/destination port. Click **Apply** to save the settings.

```
Note:
```

The settings only apply when the firewall is enabled.

The **ACTIVE INBOUND FILTER** shows detailed information about every created inbound IP filter. Click **Delete** to remove an IP filter (only appears when an IP filter exists).

3.3.5.2 Outbound IP Filtering

By default, all outgoing IP traffic from the LAN is allowed. The outbound filter allows you to create a filter rule to block outgoing IP traffic by specifying a filter name and at least one condition.

In the **Filtering Options** page, click **Outbound IP Filtering**. The page shown in the following figure appears.

TOMAX							
NETWORKING PEOPLE TOOLTHER	Setup	Advanced	Manager	nent State	an help	유명) I
Advanced	OUTGOIN	IP FILTERIN					
Advanced Wireless							
Port Forwarding	This screen	allows you to o	reate a filter rule to	identify outgoing I	P traffic by specifying	a new filter nan	ne and at least one
DM2	save and ac	now. All of the tivate the filter	specified condition	s in this filter i'vie m	ust be satisfied for th	e rule to take er	rect, click: Apply to
Parental Control	WARNING	: Changing fr	om one global po	licy to another wi	I cause all defined	rules to be REM	TOVED
Filtering Options	AUTOMAT	CALLY! YOU V	vill need to create	new rules for the	e new policy.		
Inbound IP Filtering	By default,	all outgoing IP	traffic from LAN is a	llowed, but some IF	P traffic can be BLOO	KED by setting u	p filters.
Outbound IP Filtering							
Bridge Filtering	ACTIVE OU	TROUND FILTE	R				
QOS Config	Name	Protocol	Source Address	Source Port	Dest. Address	Dest. Port	Schedule Rule
Firewall Settings	94.020002029						
DNS				Add Edit	Delete		
Dynamic DNS							
Network Tools							
Routing							
Schedules							
Logout							

Click **Add** to add an outbound IP filter. The page shown in the following figure appears.

Filter Name :		
Protocol :	Any 💌	
Source IP Type :	Any 💌	
Source IP Address :		
Source Subnet Mask :		
Source Port Type :	Any 💌	
Source Port :		(port or port:port)
Destination IP Type :	Any 💌	
Destination IP Address :		
Destination Subnet Mask :		
Destination Port Type :	Any 💌	
Destination Port :		(port or port:port)
Schedule :	Always 🔽 View Avail	able Schedules

Enter the **Filter Name** and specify at least one of the following criteria: protocol, source/destination IP address, subnet mask, and source/destination port. Click **Apply** to save the settings.

3.3.5.3 Bridge Filtering

In the **Filtering Options** page, click **Bridge Filtering**. The page shown in the following figure appears. This page is used to configure bridge parameters. In this page, you can change the settings or view some information of the bridge and attached ports.

TOMAY	
NETWORKING PEOPLE TOGETHER	Situp Advanced Management Status help
Advanced.	BRIDGE FILTER
Port Forwarding	Bridge Filtering is only effective on ATM PVCs configured in Bridge mode. ALLOW means that all MAC layer frames will be
DMZ	frames will be DENIED except those matching with any of the specified rules in the following table.
Parental Control	Create a filter to identify the MAC layer frames by specifying at least one condition below. If multiple conditions are specified,
Filtering Options	all of them take effect. Click "Apply" to save and activate the filter.
Incound IP Filtering	WARNING : Changing from one global policy to another will cause all defined rules to be REMOVED AUTOMATICALLY! You will need to create new rules for the new policy.
Outbound IP Filtering	
Bridge Filtering	Bridge Filtering Global Policy:
QOS Config	C ALLOW all packets but DENY those matching any of specific rules listed
Firewall Settings	C DENY all packets but ALLOW those matching any of specific rules listed
	Apply Cancel
Dynamic DNS	DISPLAY LIST
Network Tools	VPI/VCI protocol DMAC SMAC DIR TIME
Routing	
	Add Edd Delete
Logout	

Click **Add** to add a bridge filter. The page shown in the following figure appears.

D BRIDGE FILTER	
Protocol Type: (C	lick to Select) 💌
Destination MAC Address:	
Source MAC Address:	
Frame Direction:	AN=>LAN -
Time schedule: Alt	ways 💌 View Available Schedules
Wan interface: se	lect_all 💌
	Apply Cancel

Click **Apply** to save the settings.

3.3.6 QoS Configuration

Choose **ADVANCED** > **QOS Config**. The QoS Configuration page shown in the following figure appears.

FOIMAX		poout
NETWORKING PEOPLE TOOLTHER	Situp Advanced Management Status help	0
Advanced		
	NETWORK TOOLS QOS INTERFACE CONFIG	
Port Porwarding	allaura una ka analia inkadina kandulahi anakal	
DMZ	alows you to companye bankwath control.	
Parental Control	QoS Interface Config	
Filtering Options		
QOS Config	NETWORK TOOLS QOS QUEUE CONFIG	
QoS Interface		
QoS Queue	Alows you to comig queue s precedence.	
QOS Classify Config	Qos Queue Config	
Firewall Settings		
	NETWORK TOOLS QOS CLASSIFY CONFIGURATION	
Dynamic DNS	there up to write a facilitation	
Network Tools	aiows you to assign a cassincation.	
Routing	QoS Classify Configuration	
Schedules		
Logout		

3.3.6.1 QoS Interface

In the QoS Configuration page, click **QoS Interface Config**. The page shown in the following figure appears. In this page, you can configure bandwidth control.

TOMAX					
METWORKING PEOPLE TOGETHER	Setup	Advanced	nerd Statur	help	0
Advanced	QOS INTERF	ACE CONFIG			
Advanced Wireless					
Port Forwarding	this allows you	to config interface bandwidth o	control, include upstream an	d downstream.	
DM2					
Parental Control	11515				
Eiltering Options		Interface Name	UP Stream	Down Stream	Enable
QOS Config	F	PVC:0/35	Unlimited	Unlmited	0
QoS Interface			and a		
QoS Queue			Eat		
QOS Classify Config					
Firewall Settings					
DNS					
Dynamic DNS					
Network Tools					
Routing					
Schedukes					
Logout					

Click **Edit**, the page shown in the following figure appears.

Interface:		
Enable :		
Up Stream :	Unlimited 💌	(Kbps)
Down Stream :	Unlimited 💌	(Kbps)

Apply Cancel

After configuration, click **Apply** to make configurations take effect.

3.3.6.2 QoS Queue Configuration

In the QoS Configuration page, click **QoS Queue Config**. The page shown in the following figure appears. In this page, you can configure the priority of queue.

TOMAY				
HETWORKING PEOPLE TOGETHER	Situp	Advanced Manager	nent Statum help	08 × 0
Advanced Advanced Wireless	QOS QUEUE C	CONFIG		
Port Forwarding	this is queue pr	ecedence configuration, the p	ckets with high precedence will pass befor	e medium and low precedence.
DMZ				
Parental Control	LISTS			
Filtering Options	Terra and the second	One Name	Orana Drimity	Otate
QOS Config		Queue Name	Queue Phoney	atate
QoS Interface			Add Edit Delete	
QoS Queue				
QOS Classify Config				
Firewall Settings				
ONS				
Dynamic DNS				
Routing				
Schedules				
Logout				

Click **Add**, the page shown in the following figure appears.

Queue Enable : Queue Priority : High Associated Interface :

Apply Cancel

After configuration, click **Apply** to take the configurations effect.

3.3.6.3 QoS Classify Configuration

In the QoS Configuration page, click **QoS Classify Configuration**. The page shown in the following figure appears. In this page, you can assign a QoS classification.



Click **Add**, the page shown in the following figure appears.

QOS CLASSIFY CONFIGURATION		
Traffic Class Name :		
Enable Classification :		
SPECIFY TRAFFIC CLASSIFICATION	RULES	
Classification Type : L1&L2	•	
Physical Lan Port: any	•	
Source MAC Address :		
Source MAC Mask :		
Destination MAC Address :		
Destination MAC Mask :		
Ethernet Type : any	•	
802.1p Priority : no ma	ch 💌	
SPECIFY TRAFFIC CLASSIFICATION	RESULT	
Assign Classification Queue: no ass	gn 💌	
Mark DSCP : no ass	gn 💌	
Mark 802.1p Priority : no ass	gn 💌	
	Apply Cancel	

After configuration is done, click **Apply** to make the configuration take effect.

3.3.7 Firewall Settings

A denial-of-service (DoS) attack is characterized by an explicit attempt by attackers to prevent legitimate users from using that service. Examples include the following

- The attackers attempt to flood a network, thereby preventing legitimate network traffic
- The attackers attempt to disrupt connections between two machines, thereby preventing access to a service
- The attackers attempt to prevent a particular individual

from accessing a service

The attackers attempt to disrupt service to a specific system or person.

Port scan protection is designed to block attempts to discover vulnerable ports or services that might be exploited in an attack from the WAN.

Choose **ADVANCED** > **Firewall Settings**. The page shown in the following figure appears.

Advanced Advanced Advanced Advanced PartForwarding DM2 Perental Control Filtering Optone Qois Config Firewall Settings DNS Dynamic DNS Echt	S make the changes effe	sctive immediately.		
Port Forwarding Cick "Apply" button to DMZ Cick "Apply" button to DMZ Cick "Apply" button to Parental Control Pitturing Optoria Cick Strong Cick Cick Cick Cick Cick Cick Cick Cick	o make the changes effe	active immediately.		
Parental Control Phituring Options Cooking Prevail Settings DNS Dynamic DNS Eche	ATION			
Filturing Options Enable Attact QOS Config Friewall Settings DNS Oynamic DNS Ech				
Frewall Settings II DNS Dynamic DNS Ech	k Prevent 🗖			
DNS Dynamic DNS Ech	lemp Echo 🔽			
ECH	Fraggle 🗵			
Network Tools	IP Land IF			
Routing TCP Flags: Set	Port Scan 🕅			
Logout TCP Flags: Set	"SYN RST" 🕅			
TCP DoS	TCP DoS : 🕅 Max Rate: 50	(packet	s/second)	
		Apply Canc	el	

Click Apply to save the settings.

3.3.8 DNS

Domain name system (DNS) is an Internet service that translates domain names into IP addresses. Because domain names are alphabetic, they are easier to remember. The Internet, however, is actually based on IP addresses. Each time you use a domain name, a DNS service must translate

the name into the corresponding IP address. For example, the domain name www.example.com might be translated to 198.105.232.4.

The DNS system is, in fact, its own network. If one DNS server does not know how to translate a particular domain name, it asks another one, and so on, until the correct IP address is returned.

Choose **ADVANCED** > **DNS**. The page shown in the following figure appears.

EDIMAX		- Pura	- 35-				
ACTIVORIAN PEOPLE TOULTHEA	Setup	Advanced	Managen	Stetus	help	2262	0
Advanced	DNS						
Advanced Wreless Port Forwarding	Click "Apply"	button to save t	he new configura	ation.			
DMZ							
Parental Control	DAS SERVER	CONFIGURATIO	N				
Filtering Options			@ Obtain DNS	server address automa	atically		
QOS Config			C Use the foll	owing DNS server addr	esses		
Frewall Settings		Wan Connecti	ars : pppoe_0_	0 35 0 💌			
DNS	Pri	rferred DNS serv	er :				
Dynamic DNS	Alt	ernate DNS serv	er :				
Network Tools				Apply Cano	el		
Routing							
Schedules							
Logout							

DNS SERVER CONFIGURATION

If you are using the device as DHCP server on the LAN, or if you are using DNS servers provided by your ISP, select **Obtain DNS server address automatically**.

If you have DNS IP addresses provided by your ISP, enter these IP addresses in the preferred DNS server and the alternate DNS server field.

Click **Apply** to save the settings.

3.3.9 Dynamic DNS

The device supports dynamic domain name service (DDNS). The dynamic DNS service allows a dynamic public IP address to be associated with a static host name in any of the many domains, and allows access to a specified host from various locations on the Internet. Click a hyperlinked URL in the form of hostname.dyndns.org and allow remote access to a host. Many ISPs assign public IP addresses using DHCP, so locating a specific host on the LAN using the standard DNS is difficult. For example, if you are running a public web server or VPN server on your LAN, DDNS ensures that the host can be located from the Internet even the public IP address changes. DDNS requires that an account be set up with one of the supported DDNS service providers (DyndDNS.org or dlinkddns.com).

Choose **ADVANCED** > **Dynamic DNS**. The page shown in the following page appears.

FOIMAX							
NETWORKING PEOPLE TOSETHER	Satup	Advanced	Management	Statue	help	03	Ó
Advanced	DYNAMIC	DNS					
Advanced Wireless							
	The Dynam	ic DNS feature allo	ws you to host a ser	ver (Web, FTP, G	me Server, etc) usin	g a domain name	that you have
DM2	dynamic (d	(www.soc.com) w hanging) IP addres	ses. Using a DDNS se	rvice provider, you	r friends can enter you	r host name to o	onnect to your
Parental Control	gane serve	a no matter what	YOUR IP BULLEDS D.				
Filtering Options							
QOS Config	OVNAMIC (285					
Frewall Settings		Hostname	Us	ername	Service	Inte	rface
DNS				Add Edit De	lete		
Dynamic DNS							
Network Tools							
Routing							
Schedules							

Click **Add** to add dynamic DNS. The page shown in the following figure appears.

JYNAMIC DNS	ADD D
DDNS provider : DynDNS.org	
Hostname :	
Interface : 🔽	
Username :	
Password :	
Apply Cancel	
	-

- **DDNS provider**: Select one of the DDNS service provider from the down-list. Available service providers include DynDns.org and dlinkddns.com.
- **Host Name**: Enter the host name that you registered with your DDNS service provider.
- **Username**: Enter the user name for your DDNS account.

• **Password**: Enter the password for your DDNS account. Click **Apply** to save the settings.

3.3.10Network Tools

Choose **ADVANCED** > **Network Tools**. The page shown in the following figure appears.

TOMAY	
NETWORKING PEOPLE TOBETHER	Seture Advanced Measurement Station half
Advanced	NEWNORK TOOLS - DORT MADDING
Rost Fouriering	
nurrawarung	Port Mapping supports multiple port to PVC and bridging groups. Each group will perform as an independent network.
Detected Control	Port Mapping
Cilturing Centrope	
COR CONTRA	NETWORF TOOLS - TOND DRITERY
Contraining	Instantion comes, the a submit
PATRA AND CONTRACTOR	Transmission of identical content, such as multimedia, from a source to a number of recipients.
UND .	IGMPPROXY
Unameuns	
Network Tools	LETHION TON A TOUR PLOOPING
Pert Msopping	NETWORK TOALS DERESSOURCES
IGMP Proxy	Transmission of identical content, such as multimedia, from a source to a number of recipients.
IGMP Snooping	IGMPSNOOPING
Ump	
ADGL	
5149	NETWORK TOOLS - UPSP
TR-069	Allows you to enable or disable UPnP.
Certificales	Lings
Routing	- Cosnite
Schedules	
Logout	NETWORK TOOLS ~ ADSI.
	allows you to configure advanced settings for ADSL.
	ADSL
	NETWORK TOOLS ~ SNMP
	Natural Task (1840)
	Network Loos Snine-
	SNMP
	NETWORK TOOLS ~ TR-069
	Allows you to configure TR-069 protocol.
	TR-069
	NETWORK TOOLS CERTIFICATES
	Allows you to manage certificates used with TR-069.
	certificates

3.3.10.1 Port Mapping

Choose **ADVANCED** > **Network Tools** and click **Port Mapping**. The page shown in the following figure appears. In this page, you can bind the WAN interface and the LAN interface to the same group.

EDIMAX							
NETWORKING PEOPLE TOGETHER	Satup	Advanced	Management	Status	help	- 2.83) O
Advanced Advanced Wireless	PORT	TAPPING					
	Port Map	ping A maximum 5	entries can be confi	aured			
DMZ	Port Map	ping supports multip	e port to PVC and br	dging groups. Ead	h aroup will perform	as an independent i	network. To
	support f The "Del	this feature, you mus ete" button will rem	t create mapping gro ove the grouping and	ups with appropria add the ungroupe	te LAN and WAN in ad interfaces to the	terfaces using the */ Default group.	idd" button.
Filtering Options			3. 0.2				
QOS Config							
Firewall Settings	PORT MA	ONDAL OF LON					
		Group Name			Interfaces		
Dynamic DNS	1921	Lani	ethemet4,et	emets,ethemetz	ethemett, wahu, w	ianu-vapu, wianu-vap	1
Network Tools			+	dd Edit I	Delete		
Port Mappping							

Click **Add** to add a new port mapping. The page shown in the following figure appears.

	DODT	MAADDING
- 40.00	PURI	TAPPIN

To create a new mapping group:

1. Enter the Group name and select interfaces from the available interface list and add it to the grouped interface list using the arrow buttons to create the required mapping of the ports. The group name must be unique.

2. Click "Apply" button to make the changes effective immediately.

Group Name: Grouped Interfaces	Available Interface	95
	ethermet4 ethermet3 ethermet2 ethermet1 wlan0-vap0 wlan0-vap1 wlan0-vap2 usb0	

The procedure for creating a mapping group is listed as follows:

Step 1 Enter the group name.

- Step 2 Select interfaces from the Available Interface list and click the <- arrow button to add them to the grouped interface list, in order to create the required mapping of the ports. The group name must be unique.
- Step 3 Click Submit to save the settings.

~	2
ь	3

3.3.10.2 IGMP Proxy

Choose ADVANCED > Network Tools and click IGMP Proxy. The page shown in the following figure appears.

EDİMAX								
	Setup	Advanced	Manageme	Status	help		٢	
Advanced	IGMP PR	OXY						
		2 V.S						
Port Forwarding	IGMP prox	enables the system	m to issue IGMP ho	ist messages on beh	If of hosts that the	e system discovered	d through	
	San Dandra Galer Martinas, inter system i acts as a promy nor is hours when you ensure to pri- 1. Enabling Marting proving na Walki Interface (usersam), which connects to a nouter running 104P, 2. Enabling 104P on a LAN interface (downstream), which connects to fosts.							
QOS Config	IGMP PRO	KY CONFIGURATIO	N.					
Frewall Settings			Enable IGMP	Proxy				
DNS	WAN Connection :							
Dynamic DNS		POR DER						
Network Tools				Apply Canc	el			
Port Mappping								
IGMP Proxy								

IGMP proxy enables the system to issue IGMP host messages on behalf of hosts that the system discovered through standard IGMP interfaces. The system acts as a proxy for its hosts after you enable it.

Click Apply to save the settings.

3.3.10.3 IGMP Snooping

Choose ADVANCED > Network Tools and click IGMP **Snooping**. The page shown in the following figure appears.

EDIMAX	Contraction logost
Advanced	
Port Forwarding	Transmission of identical content, such as multimedia, from a source to a number of recipients.
Parental Control	17441*55-7103
Filtering Options	Enable IGMP Scooning
Firewall Settings	Apply Cancel
DNS	
Dynamic DNS	
Network Tools	
Port Meppping	
IGMP Proxy	
IGMP Snooping	

After configuration, click **Apply** to save the settings.

3.3.10.4 UPnP

_

Choose **ADVANCED** > **Network Tools** and click **UPnP**. The page shown in the following figure appears.

EDİMAX								
	Salap	Athenend	Managemen	Siatura	hulp	- 68	٢	
Advanced Advanced Wireless	UPNP							
Port Forwarding	Universal Pl	ug and Play (UPnP)	supports peer-to-p	eer Plug and Play fur	ctionality for netwo	rk devices.		
DMZ								
Parental Control	UPNP SETU	p						
Filtering Options			Enable UPnP					
QOS Config		WAN Connectio	on :	-				
Firewall Settings		LAN Connectio	on : 📃					
DNS				Annha Cannor	ant -			
Dynamic DNS				Appry Cance				
Notwork Tools								
Port Mappping								
IGMP Proxy								
19MP Shooping								
UPhP								

In this page, you can configure universal plug and play (UPnP). The system acts as a daemon after you enable UPnP.

UPnP is used for popular audio / video software. It allows automatic discovery of your device in the network. If you are concerned about UPnP security, you can disable it. Block ICMP ping should be enabled so that the device will not respond malicious Internet requests.

Click **Apply** to save the settings.

3.3.10.5 ADSL Settings

Choose **ADVANCED** > **Network Tools** and click **ADSL Settings**. The page shown in the following figure appears.

EDIMAX	- 0.9	er - Manne	-	On.	00	- Ann	Logout
	Satup	Advanced	Manageme	ot Statue	help	七招	Ó
Advanced	ADSL SE	TTINGS					
Advanced Wireless Port Forwarding	This page is used to configure the ADSL settings of your ADSL router.						
DMZ							
Parental Control	ADSL SETT	TINGS					
Filtering Options	E a Der	t Frankland					
QOS Config		e Enabled					
Firewall Settings	₹ T1.43	13 Enabled					
ONS		.2 Enabled					
Dynamic DNS	M ADSL	.2+ Enabled					
Network Tools		xt Enabled					
Port Mappping	AnnexM Enabled						
IGMP Proxy	I Bitsw	rap Enable					
IGMP Shooping	I SRA	Enable					
UPhP				Apply			
ADSL							

In this page, you can select the DSL modulation. Normally, you can keep factory default setting.

- 🗹 G.Dmt Enabled
- 🗆 G.Lite Enabled
- T1.413 Enabled
- ADSL2 Enabled
- ADSL2+ Enabled
- 🗆 AnnexB Enabled
- AnnexL Enabled
- 🗆 AnnexM Enabled
- Capability
- 🗹 Bitswap Enable
- 🗹 SRA Enable

The AR-7284WnA supports AnnexA mode, so the AnnexB is not enabled. Click **Apply** to save the settings.
3.3.10.6 SNMP

Choose **ADVANCED** > **Network Tools** and click **SNMP**. The page shown in the following figure appears. In this page, you can set SNMP parameters.

EDIMAX							Logout
NETWORKING PEOPLE TOGETHER	Setup	Advanced	Managemen	Status	help	198	0
Advanced Advanced Wireless	SNMP CON	FIGURATION					
Port Forwarding	This page is a	used to configure th	e SNMP protocol				
DM2							
Parental Control	SMMP CONFL	GURATION					
Filtering Options		-	Enable SNMP	Agent			
QOS Config		Read Community	: public	-			
Firewall Settings		Set Community	: private				
DNS		Trap Manager IP	:				
Dynamic DNS		Trap Community	: public				
Network Tools		Trap version	: [v2c 🛀				
Port Mapping				Apply Canc	el		
IGMP Proxy							
IGMP Shooping							
UPhP							
ADSL							
SMMP							

- **Read Community**: The network administrator must use this password to read the information of this device.
- Set Community: The network administrator must use this password to configure the information of this device.
- Trap Manager IP: The trap information is sent to this host.

Click Apply to save the settings.

3.3.10.7 TR069

Choose **ADVANCED** > **Network Tools** and click **TR-069**. The page shown in the following figure appears. In this page, you can configure the TR069 CPE.

TOMAY		0-	
NETWORKING PEOPLE TOGETHER	- Setup - Advinced Minu	pement Status help	0 ¹¹⁰
Advanced	18-069		
Port Forwarding	WAN Management Protocol (TR-069) allow collection, and dagnostics to this device.	s a Auto-Configuration Server (ACS) to perform	auto-configuration, provision,
Parental Control	Select the desired values and click "Apply"	to configure the TR-069 client options.	
Filtering Options			
QOS Config	TR-069 CLIENT CONFIGURATION		
Firewall Settings	Infrom:	C Disabled C Dnabled	
	Inform Interval:	300	
	ACS URL:	http://	
Network Tools	ACS User Name:	usemame	
Port Mappping	ACS Password:	Connection Request Authentication	
IGMP Proxy			
ICMP Snooping		Apply Cancel	
UPhP			
ADEL			
SNMP			
TR-069			

Click Apply to save settings.

3.3.10.8 Certificates

Choose **ADVANCED** > **Network Tools** and click **Certificates**. The **Certificates** page shown in the following figure appears.

ΣDIMAX	0.0	Mum	<i>.</i>	Om	00		Copout
	Satup	Advanced	Managemen	Status	belp gr	1.1.1.1.1.1	Q
Advanced							
Advanced Wireless	CERTIFICAT	IES TRUSTED (A				
Port Forwarding							
DMZ	Trusted G	A certificates are u	sed by you to verity	peers' certificates.			
Parental Control				Trusted CA			
Elluring Options							
QOS Config							
Frowall Settings							
ONS							
Dynamic DNS							
Network Tools							
Port Mappping							
IGMP Proxy							
IGMP Snooping							
UPHP							
ADGL							
SMP							
TR-059							
Certificates							

In the **Certificates** page, click **Trusted CA**. The page shown in the following figure appears.

Add. View or Remove certificat	CA	are used by you to verify pa	ers' certificates. Only one
ertificates can be stored.		310 4304 D))04 to 10,11) pe	
RUSTED CA (CERTIFICATE A	UTHORITY) CERTIFICATES		
Name	Subject	Туре	Action
	Innut Cost	ificato	
	input Cert.	incate	

Click **Input Certificate**, the page shown in the following figure appears.

TRUSTED CA CERTIFI	CATES		
Enter certificate name a	nd paste certificate content.		
IMPORT CA CERTIFICA	TE		
Certificate Name:			
Certificate:	BEGIN CERTIFICATE <incert certificate="" here=""> END CERTIFICATE</incert>	X	
	1	×	

Back apply Cancel

Click **Apply** to save the settings.

3.3.11 Routing

Choose **ADVANCED** > **Routing**. The page shown in the following page appears.

EDIMAX	Setur Advanced M	anagement Status bein	
Advanced	STATIC ROUTE		
Port Forwarding	Static Route.		
		Static Route	
Parental Control			
Filtering Options	DEFAULT DATEWAY		
QOS Config			
Firewall Settings	Default Gateway.		
DNS		Default Gateway	
Dynamic DNS			
Network Tools	RIP SETTINGS		
Routing			
Static Routing	RIP Settings.		
Default Gateway		RIP Settings	
RP			
Schedules			

3.3.11.1 Static Route

Choose **ADVANCED** > **Routing** and click **Static Route**. The page shown in the following figure appears. This page is used to configure the routing information. In this page, you can add or delete IP routes.

	Setup Advanced	Management Etatus	telp (El Cont
Advanced	STATIC ROUTE			
Advanced Wireless				
Port Forwarding	Enter the destination network address entry to the routing table.	ss, subnet mask, gateway AND/0	OR available WAN interface th	hen click "Apply" to add the
CM2				
Parental Control	A maximum 30 entries can be cor	afigured.		
Filtering Options				
QOS Config	ROUTING STATIC ROUTE			
Firewall Settings	Destination	Subnet Mask	Gateway	Interface
DNS		inter level in	Sector 1	
Dynamic DNS		Add Edd L	Jeagte	
Network Toolu				
Routing				
Static Routing				
Default Gateway				
RIP				
Schedules				
Looput				

Click **Add** to add a static route. The page shown in the following figure appears.

ATIC ROUTE ADD	
Destination Network Address :	
Subnet Mask :	
Use Gateway IP Address :	
Use Interface :	LAN Group1 💌
	Apply cancel

- **Destination Network Address**: The destination network address.
- Subnet Mask: The subnet mask of the destination network.
- Use Gateway IP Address: The gateway IP address of the destination network.
- **User Interface**: The interface name of the router output port.

You can only choose Use Gateway IP Address or User Interface.

Click **Apply** to save the settings.

3.3.11.2 Default Gateway

Choose **ADVANCED** > **Routing** and click **Default Gateway**. The page shown in the following figure appears.



Click **Apply** to save the settings.

3.3.11.3 RIP Settings

Choose **ADVANCED** > **Routing** and click **RIP Settings**. The page shown in the following figure appears. This page is used to select the interfaces on your device that use RIP and the version of the protocol being used.



If you are using this device as a RIP-enabled device to communicate with others using the routing information protocol, enable RIP and click **Apply** to save the settings.

3.3.12Schedules

Choose **ADVANCED** > **Schedules**. The page shown in the following figure appears.

EDIMAX	
NETWORKNO PEOPLE TOGETHER	Stup: Advanced Management Status help.
Advanced Advanced Wireless	SCHEDULES
	Schedule allows you to create scheduling rules to be applied for your frewall.
DM2	Maximum number of schedule rules: 20
Parental Control	
Filtering Options	CONTRACT DIR CO
QOS Cantig	
Firewall Settings	Rule Name Sun Mon iue wed ind in Sat Startiline Stoptime
	Add Edit Delete
Dynamic DRES	
Network Tools	
Routing	
Schedules	

Click **Add** to add schedule rule. The page shown in the following figure appears.



Click **Submit** to save settings.

3.4 Management

3.4.1 System

Choose **Management** > **System Management**. The **System** page shown in the following figure appears.

TOMAY	
NETWORKING PEOPLE TOGETHER	Soften Advanced Management Status help
maintenance	
System Management	SYSTEM REBOOT
Firmware Update	
Access Controls	Click the button below to reboot the router.
Diagnosis	Rebot
Log Configuration	
Logout	SYSTEM - BACKUP SETTINGS
	Back up DSL Router configurations. You may save your router configurations to a file on your PC.
	Note: Please always save configuration file first before verying it. Backup Setting
	SYSTEM - UPDATE SETTINGS
	Update DSL Router settings. You may update your router settings using your saved files. Settings File Name: Browsc
	SYSTEM - RESTORE DEFAULT SETTINGS
	Restore DSL Router settings to the factory defaults.
	Restore Default Setting

In this page, you can reboot device, back up the current settings to a file, restore the settings from the file saved previously, and restore the factory default settings. The buttons in this page are described as follows: **Reboot**: Reboot the device.

Backup Setting: Save the settings to the local hard drive. Select a location on your computer to back up the file. You can name the configuration file.

Update Setting: Click **Browse** to select the configuration file of device and click **Update Settings** to begin restoring the device configuration..

Restore Default Setting: Reset the device to default settings.

Notice: Do not turn off your device or press the **Reset** button while an operation in this page is in progress.

3.4.2 Firmware Update

Choose **Management** > **Firmware Update**. The page shown in the following figure appears. In this page, you can upgrade the firmware of the device.

EDIMAX						
NETWORKING PEOPLE TOOETHER	Gétup Advanced	Managemer	Status	help	68	Ó
maintenance System Management	FIRMWARE UPDATE					
Firmware Update	Step 1: Obtain an updated fi	rmware image file fi	om your ISP,			
Access Controls	Step 2: Enter the path to th	e image file location	in the box below or	click the "Browse"	button to locate the	mage file.
Diagnosis	Step 3: Cick the "Update Fin	mware" button onc	e to upload the new	image file.		
Log Configuration	NOTE: The update process ta your router before the update	akes about 2 minute e is complete.	as to complete, and y	rour DSL Router w	I reboot. Please DO N	IOT power off
	FIRMWARE UPDATE					
	Current Firmware Versi Current Firmware D Select i Clear Con	ion: 1.0.0 ate: Wed, 04 Mar : File: filg:	2009 10:37:50 Brow Update Firmw	se) are		

The procedure for updating the firmware is as follows: **Step 1** Click **Browse...**to search the file.

Step 2 Click **Update Firmware** to copy the file. The device loads the file and reboots automatically. *Notice:* Do not turn off your device or press the reset button while this procedure is in progress.

3.4.3 Access Controls

Choose Management > Access Controls. The Access Controls page shown in the following figure appears. The page contains Account Password, Services, and IP Address.

EDIMAX							
NETWORKING PEOPLE TODETHER	Silup	Advanced	Managemen	t Statun	help	08	Ő.
maintenance	ACCESS CO	INTROLS - ACCO	INT PASSWORD				
System Management	Marcado D	D. Router user arro	ente				
Firmware Update	Pianage Lo		on reac				
Access Controls			1	Account Passw	ord		
User Management							
Services	ACCESS CO	NTROLS - SERVI	CES				
IP Address							
Diagnosis	A Service	Control List ("SCL")	enables or disables	services from being	used.		
Log Configuration				Services			
Logout							
	ACCESS CO	NTROLS - 1P AD	ORESS				
	Permits ac	cess to local manag	ement services.				
				IP Address			

3.4.3.1 Account Password

In the **Access Controls** page, click **Account Password**. The page shown in the following figure appears. In this page, you can change the password of the user and set time for automatic logout.

EDIMAX	
HET WORKING PEOPLE TODE THEN	Setup Advanced Management Statue help
maintenance System Management	ACCOUNT PASSWORD
Firmware Update	Access to your DSL Router is controlled through three user accounts: admin, support, and user.
Access Controls User Management	The user name "support" is used to allow an ISP technician to access your DSL Router for maintenance and to run diagnostics.
Services	The user name "user" can access the DSL Router, view configuration settings and statistics, as well as update the router's firmware.
IP Address Diagnosis	Use the fields below to enter up to 16 characters and click "Apply" to change or create passwords. Note: Password cannot contain a space.
Log Configuration	
Logout	ACCOUNT PASSWORD
	Username: admin I
	Apply Cancel
	Web Idle Time Out: 5 (5 ~ 30 minutes)
	Apply Cancel

You should change the default password to secure your network. Ensure that you remember the new password or write it down and keep it in a safe and separate location for future reference. If you forget the password, you need to reset the device to the factory default settings and all configuration settings of the device will be lost.

Select the **Username** from the drop-down list. You can select **admin**, **support**, or **user**.

Enter the current password, and input new password in both 'New Password' and 'Confirm Password' field to change the password.

Click **Apply** to save the settings.

3.4.3.2 Services

In the **Access Controls** page, click **Services**. The page shown in the following figure appears.

EDIMAX					1000		
NETWONING PEOPLE POGETHER	Setup	Advanced	Management	Status	help	223	٢
maintenance	SERVICES						
							_
Firmware Update	A Service C	ontrol List ("SCL") e	nables or disables se	vices from being u	sed.		
Access Controls]			2.03			
User Management	ACCESS CO	NTROL SERVICE	5				
Services	Sele	ct WAN Connectio	ns popoe 0 0 38	0 *			
		Servic	e		LAN	WAN	
Diagnosis		FTP			v	Г	
Log Configuration		HTTE	5		v	Г	
		ICMP			7	F	
rogon		TELNE	T		V	Г	
		TETE	·		9	Г	
				Apply Can	el		

In this page, you can enable or disable the services that are opened to remote host. For example, if telnet service is enabled, the remote host can access the device by telnet through port 23. Normally, you don't need to change the settings.

Select the management services that you want to enable or disable on the LAN or WAN interface.

Click **Apply** to apply the settings.

Note:

If you disable HTTP service, you cannot access the configuration web page of the device any more.

3.4.3.3 IP Address

In the **Access Controls** page, click **IP Address**. The page shown in the following figure appears.

EDIMAX							
NETWORKING HEOPLE TOGETHER	Setup	Advanced	Managam	ent Status	tulp	62	0
maintenance System Management	IP ADDR	ESS					
Firmware Update	The IP Add	tress Access Contr	ol mode, if enable	d, permits access to k	ical management si	ervices from IP addres	ses contained in
Access Controls	the Access The service	Control List. If the as are the system a	a Access Control n applications listed (node is disabled, the s in the Service Control	ystem will not valid. List.	ate IP adresses for inc	oming packets.
User Management	Enter the I	IP address of the n	nanagement static	on permitted to acces	s the local manager	nent services, and clic	k "Apply".
Services							
IP Address	ACCESS CO	NTROL - IP AD	RESE				
Diagnosis			Enable	Arress Control Mo	de		
Log Configuration			i chaon	Access control Plo	ue		
					Ib		
				Add Dele	te		

In this page, you can configure the IP address used with access control list (ACL). If ACL is enabled, only devices with the specified IP addresses can access the device. Select **Enable Access Control Mode** to enable ACL.

Note:

If you enable the ACL capability, ensure that IP address of the host is in ACL list.

Click Add. The page shown in the following figure appears.

IP Address : Apply Cancel

Click Apply to apply the settings.



3.4.4 Diagnostics

Choose **Management** > **Diagnostic**. The page shown in the following figure appears. In this page, you can test the device.



Click Run Diagnostics Test to run diagnostics.

3.4.5 Log Configuration

Choose **Management** > **Log Configuration**. The **System Log** page shown in the following figure appears.

EDIMAX	
	Setup Advanced Management Statue help
maintenance System Management	SYSTEM LOG
Firmware Update	If the log mode is enabled, the system will begin to log all the selected events. If the selected mode is "Remote" or "Doth",
	events will be sent to the specified IP address and UDP port of the remote syslog server. If the selected mode is "Local" or "Both", events will be recorded in the local memory.
Diagnosis	Select the desired values and click "Apply" to configure the system log options.
Log Configuration	Note: This will not work correctly if modern time is not properly set! Please set it in "Setup/Time and Date"
Logout	
	SYSTEM LOB CONTIGURATION
	Enable Log
	Mode : Local
	Server IP Address :
	UNITARIA CILIPPETRIA C
	Apply Cancel View System Log

83

This page displays event log data in the chronological manner. You can read the event log from the local host or send it to a syslog server. Available event severity levels are as follows: Emergency, Alert, Critical, Error, Warning, Notice, Informational and Debugging. In this page, you can enable or disable the system log function.

The procedure for logging the events is as follows:

Step 1 Select Enable Log.

- Step 2 Select the display mode from the Mode drop-down list.
- Step 3 Enter the Server IP Address and Server UDP Port if the Mode is set to Both or Remote.
- Step 4 Click Apply to apply the settings.
- Step 5 Click View System Log to view the detail information of system log.

3.5 Status

You can view the system information and monitor device performance.

3.5.1 Device Info

Choose **Status** > **Device Info**. The page shown in the following figure appears.

DIMAX						
WORKING PEOPLE TOGETHER	Setup	Advanced Mana	pomon)	Status		e e
is	DEVICE INFO					
wice Info						
reless Clients	This informatio	n reflects the current status	of your WAN cor	mection.		
ICP Clients						
¢	SYSTEM INFO					
atistics	Madel Name			COMAY Douter		
ute Info	Time and D	ate '		2000-01-01-04-40	147	
	Firmware V	ersion :		1.0.0	a	
	-					
	INTERNET DAT	1				
	Internet Co	nnection Status : pppoe	0_0_35_0 •			
	Internet Co	nnection Status:		Disconnected		
	Default Gat	eway:				
	Preferred D	ns Server:				
	Alternate D	ns Server:				
	Downstream	n Line Rate (Kbps):		0		
	Upstream L	ine Rate (Kbps):		0		
	Enabled WA	N Connections :				
	VPI/VCI	Service Name	Protocol	IGMP	QoS	IP Address
	0/35	pppoe_0_0_35_0	PPPOE	Disable	Disable	
	0/35	br_0_35_0_1	BRIDGE	Disable	Disable	
	WDIELESS IN	0				
	select wirele	ss : edimax_ 💌				
	MAC Addre	55:		00:1e:e3:a3:69:39		
	Status:			Enable		
	Network Na	me (SSID):		edmax_		
	Visibility:			Hide		
	Security Mo	de:		None		
	LOCAL NETWO	RK INFO				
	MAC Addre	55:		00:1e:e3:a3:69:2f		
	IP Address:			192.168.2.1		
	Subnet Ma	ik:		255.255.255.0		

The page displays the summary of the device status. It includes the information of firmware version, upstream rate, downstream rate, uptime and Internet configuration (both wireless and Ethernet statuses).

3.5.2 Wireless Clients

Choose **Status** > **Wireless Clients**. The page shown in the following page appears. The page displays authenticated wireless stations and their statuses.

EDIMAX		Pur S	On a	, a , , , , , , , , , , , , , , , , , ,	Logout
	Setup	Advanced Manag	ement Status	help	e e
Status	WIRELESS CL	IENTS			
Device Info					
Wineless Clients	This page show	s authenticated wireless sta	tions and their status.		
DHCP Clients					
Logs	WIRELESS - A	UTHENTICATED STATIONS			
Statistics	Mac	Associated	Authorized	SSID	Interface
Route Info					
Logout			Refresh		

3.5.3 DHCP Clients

Choose **Status** > **DHCP Clients**. The page shown in the following page appears.

EDIMAX				
NETWORKING PEOPLE TOGETHER	Salup Advanced	Management State	m telp	on o
Status	DHCP CLIENTS			
Wireless Clients	This information reflects the o	current DHCP client of your modern.		
DHCP Clients				
Logs	DHCP LEASES			
Statistics	Hostname	MAC Address	IP Address	Expires In
Logout		Refres	h	

This page displays all client devices that obtain IP address from the device. You can view the host name, IP address, MAC address and expire time.

3.5.4 Logs

Choose $\ensuremath{\textit{Status}}\xspace > \ensuremath{\textit{Logs}}\xspace.$ The page shown in the following figure appears.

ΣDIMAX	.o ⁰	, thea	-	0,	00		
	Silop	Advanced	Managemen	ni Statum	help	- 11D	Ó
Status	1065						
Device Info							
Wireless Clients	This page all	ows you to view s	ystem logs.				
DHCP Clients							
Logs	SYSTEMLOO						
Statistics							1
Route Info							-
Logout							
	1						*
				Refresh			

Click **Refresh** to refresh the system log shown in the table.

3.5.5 Statistics

Choose **Status** > **Statistics**. The page shown in the following figure appears.

TOMAX	1000 C			T.		A.	-			-	Lingout
NETWORKING PEOPLE TOGETHER	Setup	Advance	10	Min	agement		Status.	help	6	¥2	Ĩ O
Status	DEVICE INFO										
Wireless Clients	This information	reflects	the curren	nt statu	is of your D	SL conn	ection.				
DHCP Clients											
	-										
Ctalistics	LOCAL NETWO	RK,& WI	RELESS								
Statistics	interface	Receiv	ved					Transmitted			
Route Info		Bytes		Pkts	Errs	Rx	drop	Bytes	Pkts	Errs	Tx drop
	LAN4	41677	5	3484	0	0		4085796	5667	0	0
	USBO				0	0				0	0
	edimax_	13959	906	31369	0 0	0		13959906	172345	0	0
	Service		VPI/W	CI P	rotocol	Recei	ived Pkts	Errs Drops	Transmi Bytes	tted Pkts	Errs Drops
						Bytes	Pkts	Errs Drops	Bytes	Pkts	Errs Drops
	bpbbe_0_0_3	0_0	0/35		RING						
	ADSL										
	Mode:								0		
	Type:								0		
	Line Coding:								Enable		
	Status:								ACTIV	ATING.	
							Downstre	Nam	Upstre	am	
	SNR Margin	(dB):				C	0.0		0.0		
	Attenuation	(dB);				C	94		0.0		
	Output Pow	er (dBm)):			C	0.0		0.0		
	Attainable R	ate (Kbp	os):			0)		0		
	Rate (Kbps):)		0		
	D (interleave	depth):)		0		
	Delay (msec)					(,		0		
	HEC Errors:					c)		0		
	OCD Errors:					c)		0		
	LCD Errors:					0)		0		
	Total ES					0)		0		

This page displays the statistics of the network and data transfer. This information helps technicians to identify if the device is functioning properly. The information does not affect the functionality of the device.

3.5.6 Route Info

Choose **Status** > **Route Info**. The page shown in the following figure appears.

EDIMAX							
NETWOINING PEOPLE TOGETHER	Setup Adv	inced Man	agement State	-	wip.	산법	¢
tatus	ROUTE INFO						
Device Info							
Wireless Clients	Flags: U + up, I + rejec	t, G - gateway, H - I	nost, R - reinstate D - dj	mamic (redin	ect), M - moo	ified (redirect)	
Wireless Clients DHCR Clients	Flags: U + up, I + rejec	t, G - gateway, H - I	nost, R - reinstate D - dy	namic (redir	ect), M - mor	áfied (redirect)	
Wireless Clients DHCP Clients Logs	Flags: U + up, I + rejec	rt, G - gateway, H - I	nost, R - reinstate D - dj	mamic (redin	ect), M - moo	ified (redirect)	
Wireless Clients DHCP Clients Logs Statistics	Flag:: U + up, I + rejac	rt, G - gateway, H - I	nost, R - reinstate D - dy Subnet Mask	namic (redin Flaces	ect), M - mor Metric	áfied (redirect) Service	Interface
Wreless Clients DHCP Clients Logs Statistics Route Info	Plags: U - up, I - rejact DEVICE INFO - ROUT Destination 192.158.2.0	IL Gateway, H - I Gateway 0.0.0.0	nost, R - reinstate D - dy Subnet Mask 255.255.255.0	namic (redin Flags U	ect), M - mor Metric O	áñed (redirect) Service O	Interface br1

The table shows a list of destination routes commonly accessed by the network.



Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of 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 or more of the following measures:

1. Reorient or relocate the receiving antenna.

2. Increase the separation between the equipment and receiver.

3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

4. Consult the dealer or an experienced radio technician for help.

FCC Caution

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

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.

Any changes or modifications not expressly approved by the party responsible for compliance could void the authority to operate equipment.

Federal Communications Commission (FCC) Radiation Exposure Statement

This equipment must be installed and operated in accordance with provided instructions and a minimum 20 cm spacing must be provided between computer mounted antenna and person's body (excluding extremities of hands, wrist and feet) during wireless modes of operation.

The equipment version marketed in US is restricted to usage of the channels 1-11 only.

R&TTE Compliance Statement

This equipment complies with all the requirements of DIRECTIVE 1999/5/EC OF THE EUROPEAN PARLIAMENT AND THE COUNCIL of March 9, 1999 on radio equipment and telecommunication terminal Equipment and the mutual recognition of their conformity (R&TTE)

The R&TTE Directive repeals and replaces in the directive 98/13/EEC (Telecommunications Terminal Equipment and Satellite Earth Station Equipment) As of April 8, 2000.

Safety

This equipment is designed with the utmost care for the safety of those who install and use it. However, special attention must be paid to the dangers of electric shock and static electricity when working with electrical equipment. All guidelines of this and of the computer manufacture must therefore be allowed at all times to ensure the safe use of the equipment.

EU Countries Intended for Use

The ETSI version of this device is intended for home and office use in Austria, Belgium, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Luxembourg, Bulgaria, Cyprus, Czech Republic, Estonia, Hungary, Latvia, Lithuania, Malta, Poland, Romania, Slovakia, Slovenia, the Netherlands, Portugal, Spain, Sweden, and the United Kingdom.

The ETSI version of this device is also authorized for use in

EFTA member states: Iceland, Liechtenstein, Norway, and Switzerland. EU Countries not intended for use None

A declaration of conformity is available on www.edimax.com

