



User's Manual

802.11n Wireless ADSL 2/2+ Router

ADN-4100



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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

To assure continued compliance (example-use only shielded interface cables when connecting to computer or peripheral devices). Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.

Federal Communication Commission (FCC) Radiation Exposure Statement

This equipment complies with FCC radiation exposure set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20 cm (8 inches) during normal operation.

R&TTE Compliance Statement

This equipment complies with all the requirements of DIRECTIVE 1999/5/EC OF THE EUROPEAN PARLIAMENT AND THE COUNCIL OF 9 March 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.

WEEE Regulation



To avoid the potential effects on the environment and human health as a result of the presence of hazardous substances in electrical and electronic equipment, end users of electrical and electronic equipment should

understand the meaning of the crossed-out wheeled bin symbol. Do not dispose of WEEE as unsorted municipal waste and have to collect such WEEE separately.

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.

Energy Saving Note of the Device

This power required device does not support Standby mode operation.

For energy saving, please remove the power cable or push the power button to OFF position to disconnect the device from the power circuit.

Without removing power cable or Power off, the device will still consuming power from the power source. In the view of Saving the Energy and reduce the unnecessary power consuming, it is strongly suggested to remove the power connection for the device if this device is not intended to be active.

Revision

User's Manual for 802.11n Wireless ADSL 2/2+ Router Model: ADN-4100 Rev: 1.0 (March. 2012) Part No. EM-ADN4100v3_v1.0

National restrictions

This device is intended for home and office use in all EU countries (and other countries following the EU directive 1999/5/EC) without any limitation except for the countries mentioned below:

Country	Restriction	Reason/remark	
Bulgaria	None	General authorization required for outdoor use and public service.	
France	Outdoor use limited to 10 mW e.i.r.p. within the band 2454-2483.5 MHz	Military Radiolocation use. Refarming of the 2.4 GHz band has been ongoing in recent years to allow current relaxed regulation. Full implementation planned	
Italy	None	If used outside of own premises, general authorization is required.	

Luxembourg	None	General authorization required for network and service supply (not for spectrum)	
Norway	Implemented	This subsection does not apply for the geographical area within a radius of 20 km from the centre of Ny-Ålesund.	
Russian Federation	None	Only for indoor applications	



EC Declaration of Conformity

English	Hereby, PLANET Technology Corporation, declares that this Wireless Access Point is in compliance with the essential requirements and other relevant provisions of Directive 1989/5/EC.	Lietuviškai	Šluo PLAHET Technology Corporation, skelbia, kad Wireless Access Point tenkina visus svarbiausius 1999/5/EC direktyvos reikalavinus ir kitas svarbias nuostatas.
Cesky	Společnost PLAHET Technology Corporation, tímto prohlašuje, že tato Wireless Access Point splčnie základní požadavky a další příslušná ustanovení směrnice 1999/5/EC.	Magyai	A gyártó PLANET Technology Corporation, kijelenti, hogy ez a Wireless Access Point megfelel az 1999/5/EK írányelv alapkövetelményeinek és a kapcsolódi rendelkezéseknek.
Dansk	PLANET Technology Corporation, erklærer herved, at følgende udstyr Wireless Access Point overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF	Malti	Hawnhekk, PLAHET Technology Corporation, jiddlijara li dan Wireless Access Point jikkonforma mal-Pitigijiet essenzjali u ma provvedimenti oFirajn relevanti li hemm fid-Dirrettiva 1999/5/EC
Deutsch	Hiermit erklärt PLANET Technology Corporation, dass sich dieses Gerät Wireless Access Point in Übereinstimmung mit den grundlegenden Anforderungen und den anderen relevanten Vorschritten der Richtlinie 1999/5/EG befindet". (BMVN).	Nederlands	Hierbij verklaart , PLANET Technology or poration, dat Wireless Access Point in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG.
Eestikeeles	Käesolevaga kinnitab PLAHET Technology Corporation, et see Wireless Access Point vastab Euroopa Nõukogu direktiivi 1999/5/EC põhinõuetele ja muudele olulistele tingimustele.	Polski	Niniejszym frma PLANET Technology Corporation, cśwładcza, że Wireless Access Point spełnia wszystkie istotne wymogi i klauzule zawarte w dokumencie "Directive 1999/5/EC".
Ελληνικά	ME THN ΠΑΡΟΥΣΑ, PLANET Technology Corporation, ΔΗΛΩΝΕΙ ΟΤΙΑΥΤΟ Wireless Access Point ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5/ΕΚ.	Português	PLANET Technology Corporation, declara que este Wireless Access Point está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE,
Español	Por medio de la presente, PLAHET Technology Corporation, declara que Wireless Access Point cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la birectiva 1939/5/CE	Slovensky	Výrobca PLAHET Technology Corporation, týmto deklaruje, že táto Wireless Access Point je v súlade so základnými požiadavkami a ďalšími relevantnými predpismi smernice 1999/S/EC.
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Italiano	Con la presente , PLAIIET Technology Corporation, dichiara che questo Wireless Access Point è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.	Suomi	PLAHET Technology Corporation, vakuuttaa täten että Wireless Access Point tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.
Latviski	Ar šo PLAIIET Technology Corporation, epliecina, ka šī Wireless Access Point atbilst Direktīvas 1999/5/EK pamatprasībām un citiem atbilstošiem noteikumiem.	Svenska	Härmed intygar, PLANET Technology Corporation, att denna Wireless Access Point står i överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG.

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1 Overview

High-Speed 802.11n Wireless Data Rate

The PLANET 802.11n Wireless ADSL 2/2+ Router with 2T2R MIMO antenna technology, ADN-4100A, provides office and residential users the ideal solution for sharing a high-speed ADSL 2/2+ broadband Internet connection and four-10/100Mbps Fast Ethernet backbone. It can support downstream transmission rates of up to 24Mbps and upstream transmission rates of up to 3.5Mbps. The product supports PPPoA (RFC 2364 - PPP over ATM Adaptation Layer 5), RFC 2684 encapsulation over ATM (bridged or routed), PPP over Ethernet (RFC 2516), and IPoA (RFC1483) to establish a connection with ISP.

Wireless Coverage Plus !

With built-in IEEE 802.11b/g/n wireless network capability, all computers and wireless-enabled network devices can connect to ADN-4100A without additional cabling. The ADN-4100A is equipped with external 5dBi hi-gain antenna which provides stronger signal strength and excellent performance, you can transfer file up to 300Mbps (transfer data rate) upload and download data rate, so you don't need to worry if the size of your office or house is big.

Advanced Wireless Security

To secure the wireless communication, ADN-4100A supports most up-to-date encryption, WEP, and WPA-PSK/ WPA2-PSK. In order to simplify the security settings, ADN-4100A supports WPS configuration with PBC/PIN type. Your whole wireless network can be secured.

Advanced Networking function for Specific Application

Via the user-friendly management interface, ADN-4100A can be managed by workstations running standard web browsers. Furthermore, ADN-4100A provides DHCP server, NAT, Virtual Server, DMZ, Access Control, IP Filter, PPTP / IPSec

VPN, DDNS, and UPnP capability. For further IP compatibility it supports IPv6 as well.

1.1 Safety Precautions

Refer to 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.
- Use the power adapter packed within the device package.
- Pay attention to the power load of the outlet or prolonged lines. An overburden 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 the power cords at once.
- Proper space left for heat dissipation is necessary to avoid damage caused by overheating to the device. The long and thin holes on the device are designed for heat dissipation to ensure that the device works normally. Do not cover these heat dissipation holes.
- Do not put this device close to a place where a heat source exits or high temperature occurs. Avoid the device from direct sunshine.
- Do not put this device close to a place where it is over damp or watery. 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 this, because any wrong connection may cause power or fire risk.
- Do not place the device on an unstable surface or support.

1.2 LEDs and Interfaces

Front Panel



T I (11)			
The following	table describes	s the LEDS	of the device.

LED	Color	Status	Description				
	Green	On	The device is powered on and the				
PWR		On	initialization is normal.				
		Off	The power is off.				
	Red	On	The device is self-testing or self-testing is failed.				
		Slow Blinks	No signal is detected.				
Link	Croon	Fast	The device is handshaking with the physical				
LINK	Green	Blinks	layer of the office.				
		On	The device is connected to the physical laver of the office.				
	Green	On	The Internet connection is normal in the routing mode (for example: PPP dial-up is successful), and no Internet data is being transmitted.				
Data		Blinks	Internet data is being transmitted in the routing mode.				
		Off	The device is in the bridge mode.				
	Red	On	The Internet connection fails after successful synchronization in the routing mode (for example: PPP dial-up is failed).				
	Green	On	The LAN connection is normal.				
LAN4-1		Blinks	Data is being transmitted through the LAN interface, or the Internet data is being transmitted in the bridge mode.				
		Off	The LAN connection is not established.				
		On	The WLAN connection has been activated.				
WLAN	Green	Blinks	Data is being transmitted through the WLAN interface.				
		Off	The WLAN connection is not activated.				
WPS	Green	Blinks	WPS is activated and the device is waiting for negotiation with the clients.				
		Off	WPS is not activated.				

Rear Panel



The following table describes the interfaces and buttons of the device.

Interface/Button	Description				
	RJ-11 interface, for connecting the interface of the				
	telephone set through the telephone cable.				
LAN1,LAN2,	RJ-45 interface, for connecting the Ethernet interface of a				
LAN3,LAN4	computer or an Ethernet device.				
	Power interface, for connecting the interface of the power				
POWER	adapter.				
	Restore to factory defaults. To restore factory defaults,				
DECET	keep the device powered on, push a paper clip into the				
RESEI	hole to press the button for over 3 seconds and then				
	release.				
	• Press the button and hold it for 1 second, to				
	enable/disable WLAN.				
WF 3/ WLAN	• Press the button and hold it for 3 or more than 3				
	seconds, to initialize WPS negotiation.				
ON/OFF	Power switch, power on or off the device.				

1.3 System Requirements

Recommended system requirements are as follows:

- A 10Base-T/100Base-TX Ethernet card is installed on your PC.
- A hub or switch is available for connecting one Ethernet interface on the device and several PCs.
- Operating system: Windows 7 \ Vista \ XP \ 2008 server \ 2003 server \ 2000 \ ME \ 98SE.

 Internet Explorer V6.0 or higher, Netscape V4.0 or higher, or Firefox 1.5 or higher

1.4 Features

The device supports the following features:

Internet Access Features

- Shared Internet Access All users on the LAN can access the Internet through ADN-4100A using only a single external IP Address. The local (invalid) IP Addresses are hidden from external sources. This process is called NAT (Network Address Translation).
- Built-in ADSL 2/2+ Modem ADN-4100A provides ADSL 2/2+ modem, and supports all common ADSL connections.
- PPPoE, PPPoA, and Direct Connection Support Various WAN connections are supported by ADN-4100A.
- Multiple PVCs for Triple-Play Service(Data, IPTV, VoIP application)
 Co work with data, IPTV and IP telephony services protocol through specific
 PVCs at the same time.
- Fixed or Dynamic IP Address On the Internet (WAN port) connection, ADN-4100A supports both Dynamic IP Address (IP Address is allocated on connection) and Fixed IP Address.

Advanced Internet Functions

 QoS (Quality of Service) divides this capacity between the different applications and provides underplayed, continuous data transfer where data packets with higher priority are given preference.

- Firewall Supports simple firewall with NAT technology and provides option for access control from Internet, like Telnet, FTP, TFTP, HTTP, SNMP, and ICMP services. It also supports IP/MAC /Application/URL filtering.
- Port Forwarding (Virtual Server) This feature allows Internet users to access Internet servers on your LAN. The required setup is quick and easy.
- DMZ Support ADN-4100A can translate public IP addresses to private IP address to allow unrestricted 2-way communication with Servers or individual users on the Internet. This provides the most flexibility to run programs, which could be incompatible in NAT environment.
- Parental Control and Scheduling ADN-4100A provides parents to help protect their children and set restrictions while surfing Internet.
- Universal Plug and Play (UPnP) UPnP allows automatic discovery and configuration of the Broadband Router. UPnP is supported by Windows ME, XP, or later.
- Dynamic DNS Support When used with the Virtual Servers feature, ADN-4100A allows users to connect to Servers on your LAN using a Domain Name, even if you have a dynamic IP address which changes every time you connect.
- VPN Pass through Support PCs with VPN (Virtual Private Networking) software using PPTP, L2TP, and IPSec are transparently supported - no configuration is required.
- PPTP and IPSec VPN ADN-4100A supports PPTP and IPSec VPN tunneling, The IPSec VPN has DES, 3DES and AES encryption and SHA-1/MD5 authentication.

- RIP Routing ADN-4100A supports RIPv1/2 routing protocol for routing capability.
- Simple Network Management Protocol (SNMP) It is an easy way to remotely manage the router via SNMP.

LAN Features

- 4-Port Switch ADN-4100A incorporates a 4-Port 10/100BaseT switching hub, making it easy to create or extend your LAN.
- DHCP Server Support Dynamic Host Configuration Protocol provides a dynamic IP address to PCs and other devices upon request. ADN-4100A can act as a DHCP Server for devices on your local LAN and WLAN.
- IPv6 ADN-4100A implements the new IP version for further compatibility of network environment.

Wireless Features

- Standards Compliant ADN-4100A complies with IEEE 802.11n radio with wireless technology capable of up to 300Mbps data rate.
- Dipole Antenna with MIMO Technology ADN-4100A provides farther coverage, less dead spaces and higher throughput with 2T2R MIMO technology.
- Support IEEE 802.11b, g and 802.11n Wireless Station The 802.11n standard provides for backward compatibility with the 802.11b and 802.11g standard, so 802.11b, 802.11g, and 802.11n can be used simultaneously.
- WEP Support WEP (Wired Equivalent Privacy) is included. Key sizes of 64 Bit

and 128 Bit are supported.

- WPS Push Button Control ADN-4100A supports WPS (Wi-Fi Protected Setup) to easy connect wireless network without configuring the security.
- WPA-PSK Support WPA-PSK_TKIP and WPA2-PSK_AES encryption are supported.
- Wireless MAC Access Control The Wireless Access Control feature can check the MAC address (hardware address) of Wireless stations to ensure that only trusted Wireless Stations can access your LAN.
- WDS ADN-4100A supports wireless distribution system; it allows the wireless interconnection of access point in an IEEE 802.11 network.

2 Hardware Installation

- Step 1 Connect the LINE interface of the device and the Modem interface of the splitter with a telephone cable. Connect the phone set to the Phone interface of the splitter through a telephone cable. Connect the input cable to the Line interface of the splitter.
 The splitter has three interfaces:
 - Line: Connect to a wall phone interface (RJ-11 jack).
 - Modem: Connect to the LINE interface of the device.
 - Phone: Connect to a telephone set.
- Step 2 Connect the LAN interface of the device to the network card of the PC through an Ethernet cable (MDI/MDIX).



Use the twisted-pair cable to connect the hub or switch.

Step 3 Insert one end of the power adapter to the wall outlet and connect the other end to the **POWER** interface of the device.

Connection 1: Figure 1 shows the connection of the device, PC, splitter, and telephone set, when no telephone set is placed before the splitter. This type of connection is recommended.



Figure 1 Connection diagram (without a telephone set before the splitter)

Connection 2: Figure 2 shows the connection of the device, PC, splitter, and telephone set, when a telephone set is placed before the splitter.

As illustrated in the following figure, the splitter is installed close to the device:



Figure 2 Connection diagram (with a telephone set before the splitter)



Note:

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

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

3 Web Configuration

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

3.1 Accessing the Device

The following describes how to access the device for the first time in detail.

- Step 1 Open the Internet Explorer (IE) browser and enter .<u>http://192.168.1.1</u>. in the address bar.
- Step 2 The LOGIN page as shown in the following figure appears:

	PLANET, Networking & Communication
Input username and password	UserName admin Password login

In this page, enter the user name and the password. Then, click login.

- The user name and the password of the super user are **admin** and **admin** respectively.
- The user name and the password of the normal user are user and user respectively.

If the login information is incorrect, the page as shown in the following figure appears:



Click OK to log in again.



Note:

In the LAN, you can use either of the following two levels of user accounts (displayed in the user name/password format) to access the device: admin/admin and user/user.

In the WAN, you can use one of the following three levels of user accounts (displayed in the user name/password format) to access the device: admin/admin, user/user, and support/support.

3.2 **General Configuration**

3.2.1 Wizard

Wizard helps you to fast and accurately configure Internet connection and other important parameters. The following sections describe these various configuration parameters.

When subscribing to a broadband service, be aware of the Internect connection mode. The physical WAN device can be Ethernet, DSL, or both. Technical information about properties of 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, and the protocol, such as PPPoA or PPPoE, that you use to communicate on the Internet.

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



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



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

Step 3 Set the time and date. Then, click **Next**.

STEP 1: SET TIME AND DATE						
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 Saving can also be configured to automatically adjust the time when needed.						
TIME SETTING						
	Automatically synchronize with Internet time servers					
1st NTP time server :	192.168.2.10					
2nd NTP time server :	: 192.168.2.100					
TIME CONFIGURATION						
Time Zone :	(GMT) Greenwhich Mean Tim	e: Dublin, Lisbon, Lond	lon; Casablanca	v		
	Enable Daylight Saving					
Daylight Saving Start :	2000 Year 04 Mon	01 Day 02	Hour 00 Min	00 Sec		
Daylight Saving End :	2000 Year 09 Mon	01 Day 02	Hour 00 Min	00 Sec		
	Back Next	Cancel				

Step 4 Configure the Internet connection.

Select the protocol and the encapsulation mode. Set the VPI and the VCI.

If the **Protocol** is set to **PPPoE** or **PPPoA**, the page as shown in the following figure appears:

ase select your ISP (Internet Service Provider) from	the list below.	
Protocol :	PPPoE 💌	
Encapsulation Mode:	LLC 💌	
VPI :	8	(0-255)
VCI :	35	(32-65535)
ое/ррроа		_
OE/PPPOA ase enter your Username and Password as provided yrmation exactly as shown taking note of upper and	i by your ISP (Internet S i lower cases. Click "Next	→ ervice Provider). Please enter the " to continue.
OE/PPPOA ase enter your Username and Password as provided prmation exactly as shown taking note of upper and Username :	i by your ISP (Internet S i lower cases. Click "Next	ervice Provider). Please enter the " to continue.
OE/PPPOA hase enter your Username and Password as provided ormation exactly as shown taking note of upper and Username : Password :	by your ISP (Internet S lower cases. Click "Next :	ervice Provider). Please enter the " to continue.
OE/PPPOA asse enter your Username and Password as provided formation exactly as shown taking note of upper and Username : Password : Confirm Password :	i by your ISP (Internet S i lower cases. Click "Next :	ervice Provider). Please enter the " to continue.

You need to enter the user name and password for PPPoE or PPPoA dialup.

If the **Protocol** is set to **Dynamic IP**, the page as 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 :	8	(0-255)		
VCI :	35	(32-65535)		
Back Next Cancel				

If the **Protocol** is set to **Static IP**, the page as shown in the following figure appears:

STEP 2: SETUP INTERNET CONNECTION		
Please select your ISP (Internet Service Provider) from	the list below.	
Protocol :	Static IP	
Encapsulation Mode:	LLC 💌	
VPI :	8	(0-255)
VCI :	35	(32-65535)
STATIC IP		
You have selected Static IP Internet connection. Plea The Auto PVC Scan feature will not work in all cases so Click Next to continue.	se enter the appropriate in o please enter the VPI/VC	nformation below as provided by your ISP. I numbers if provided by the ISP.
IP Address	:	
Subnet Mask	:	
Default Gateway	:	
Primary DNS Server	:]
Back	Next Cancel	
rou need to enter the inf	ormation of the H	- address, subhet mask, and
galeway.		

If the **Protocol** is set to **Bridge**, the page as 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 :	8	(0-255)		
VCI :	35	(32-65535)		
Back Next Cancel				

After setting, click Next.

Step 5 Configure the wireless network. Enter the information and click Next.

Your wireless network is enab wireless network.	led by default. You can s	imply uncheck it to disable it and	l click "Next" to skip configuration of
Enabl	le Your Wireless Netwo	rk : 🗹	
Your wireless network needs recommended to change the	a name so it can be easily pre-configured network	recognized by wireless clients. I name.	For security purposes, it is highly
Wirele	ss Network Name (SSII	D): ADN-4100	
Select "Visible" to publish your wireless network so that user	r wireless network and SS s need to manually enter	SID can be found by wireless clie SSID in order to connect to you	nts, or select "Invisible" to hide your ir wireless network.
	Visibility State	us: 🖲 Visible 🔿 Invisible	
In order to protect your netw following wireless network sec	vork from hackers and una curity settings.	authorized users, it is highly reco	mmended you choose one of the
	S	ecurity Level	Best
None	0	O	
None None	O WEP	O WPA-PSK	O WPA2-PSK

Step 6 View the configuration information of the device. To modify the information, click Back. To effect the configuration, click Next.

STEP 4: COMPLETED AND RESTART

Setup complete. Click "Back" to review or modify settings.

If your Internet connection does not work, you can try the Setup Wizard again with alternative settings or use Manual 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 :	GMT
Daylight Saving Time :	0
VPI / VCI :	8/35
Protocol :	Bridge
Connection Type :	LLC
Wireless Network Name (SSID) :	ADN-4100
Visibility Status :	1
Encryption :	Basic
Pre-Shared Key :	
WEP Key :	alle alle alle alle alle alle alle alle

Back	Apply	Cancel
------	-------	--------



Note:

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

3.2.2 Internet Setup

Choose **Setup** > **Internet Setup**. The page as shown in the following figure appears:

INTERNET SE	TUP						
Choose "Add", "Edit", or "Delete" to configure WAN interfaces.							
WAN SETUP							
VPI/VCI VLAN ID ENCAP Service Name Protocol State Status Default Gateway Action							
Add Edit Delete							

In this page, you can configure the WAN interface of the device.

Click **Add** and the page as shown in the following figure appears:

VPI :	0	(0-255)
VCI :	35	(32-65535)
Service Category :	UBR With PCR	 Image: A set of the set of the
Peak Cell Rate :	0	(cells/s)
Sustainable Cell Rate :	0	(cells/s)
Maximum Burst Size :	0	(cells)
CONNECTION TYPE Protocol :	Bridging	
CONNECTION TYPE Protocol : Encapsulation Mode :	Bridging LLC v	¥
CONNECTION TYPE Protocol : Encapsulation Mode : 802.1Q VLAN ID :	Bridging LLC V	(0 = disable, 1 - 4094)
CONNECTION TYPE Protocol : Encapsulation Mode : 802.1Q VLAN ID :	Bridging LLC V 0 Enable Proxy Arp	(0 = disable, 1 - 4094)
CONNECTION TYPE Protocol : Encapsulation Mode : 802.1Q VLAN ID : Protocol Type :	Bridging LLC V 0 Enable Proxy Arp IPv4 V	(0 = disable, 1 - 4094)
CONNECTION TYPE Protocol : Encapsulation Mode : 802.1Q VLAN ID : Protocol Type :	Bridging LLC 0 Enable Proxy Arp IPv4	(0 = disable, 1 - 4094)
CONNECTION TYPE Protocol : Encapsulation Mode : 802.1Q VLAN ID : Protocol Type :	Bridging LLC V 0 Enable Proxy Arp IPv4 V	(0 = disable, 1 - 4094)

The following table describes the parameters in this page.

Field	Description			
ATM PVC CONFIG	FIGURATION			
VPI	Virtual Path Identifier (VPI) is the virtual path between two points in an ATM network. Its value range is from 0 to 255.			
VCI	Virtual Channel Identifier (VCI) is the virtual channel between two points in an ATM network. Its value range is from 32 to 65535 (0 to 31 is reserved for local management of ATM traffic).			
Service Category	Select UBR with PCR, UBR without PCR, CBR, Non Realtime VBR, or Realtime VBR from the drop-down list.			
Peak Cell Rate	Set the maximum transmission rate of the cell in ATM transmission.			
Sustainable Cell Rate	Set the minimum transmission rate of the cell in ATM transmission.			
Maximum Burst Size	Set the maximum burst size of the cell in ATM transmission.			
CONNECTION TY	PE			
Protocol	Select PPP over ATM (PPPoA), PPP over Ethernet (PPPoE), MAC Encryption Routing (MER), IP over ATM (IPoA), Bridging or PPTP from the drop-down list.			
Encapsulation Mode	Select LLC or VCMUX from the drop-down list. Usually, you can select LLC.			
802.1Q VLAN ID	If you enter a value, packets from the interface is tagged with the set 802.1q VLAN ID. Its value range is 0-4094, while 0 indicates to disable this function.			
Enable Proxy Arp	Check this to enable proxy arp.			
Protocol Type	You can select the IPv4,IPv6 or IPv4&6			
NETWORK ADDR	ESS TRANSLATION SETTINGS			
Enable NAT	Select or deselect the check box to enable or disable the NAT connection.			
NAT Туре	Select Symmetric Nat or Full cone Nat from the drop-down list			
Enable WAN Service	Select or deselect the check box to enable or disable the WAN connection.			

_

Field	Description
Convice Nome	The name to identify the WAN connection. You need not
Service Marrie	modify it.

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 points that bridge network traffic to a wired LAN.

Choose **Setup** > **Wireless**. The **WIRELESS SETTINGS** page as shown in the following figure appears:

WIRELESS SETTINGS WIRELESS BASIC	
Configure your wireless basic settings.	
Wireless Bas	c
WIRELESS SETTINGS WIRELESS SECURITY	
Configure your wireless security settings.	
Wireless Secu	ity

3.2.3.1 Wireless Basics

In the WIRELESS SETTINGS page, click Wireless Basic. The page as shown in

the following figure appears:

WIRELESS BASIC

Use this section to configure the wireless settings for your router. Please note that changes made in this section will also need to be duplicated to your wireless clients and PC.

Enable V	Vireless: 🗹
Enable MultiAP Is	olation: 🗌
Wireless Network Name	(SSID): ADN-4100
Visibility	Status : 💿 Visible 🔘 Invisible
Channel St	andard: ETSI(1-13) 💌
Control Si	deband: Upper 💌
Wireless C	hannel : Auto Scan 💌
802.11	Mode : 802.11b/g/n 💌
Band	Width : 40 M 💌
Please take note of your SSID a	is you will need to duplicate the same settings to your wireless devices and PC.

In this page, you can configure the parameters of wireless LAN clients that may connect to the device.

Field	Description
Enable Wireless	Select or deselect the check box to enable or disable
	the wireless function.
Enable MultiAP Isolation	Select or deselect the check box to enable or disable
	multiAP isolation. If this function is enabled, clients of
	different SSIDs cannot access each other.
Wireless Network	Network name. It can contain up to 32 characters. It
Name (SSID)	can consist of letters, numerals, and/or underlines.
Visibility Status	• Visible indicates that the device broadcasts the SSID.
	• Invisible indicates that the device does not broadcast the SSID.

The following table describes the parameters in this page.

Field	Description
Channel Standard	You can select from the drop-down list: FCC(1-11) ,
	ETS(1-13), JP(1-14)
Control Sideband	You can select Upper or Lower from the list
Wireless Channel	Select the wireless channel used by the device from the drop-down list. You can select Auto Scan or a value from CH1—CH13. Auto Scan is recommended.
802.11 Mode	Select the 802.11 mode of the device from the drop-down list. The device supports 802.11b, 802.11g, 802.11n, 802.11b/g, 802.11n/g, and 802.11b/g/n.
Band Width	You can set the bandwidth only in the 802.11n mode. You can set the bandwidth of the device to 20M or 40M .

Click Apply to save the settings.

3.2.3.2 Wireless Security

In the **WIRELESS SETTINGS** page, click **Wireless Security**. The page as shown in the following figure appears:

WIRELESS SECURITY		
Use this section to configure the wireless security settings for your router. Please note that changes made on this section will also need to be duplicated to your wireless clients and PC.		
WIRELESS SECURITY MODE		
To protect your privacy you can configure wireless security features. This device supports three wireless security modes including: WEP, WPA and WPA2. WEP is the original wireless encryption standard. WPA and WPA2 provides a higher level of security.		
Security Mode : None		
Please take note of your SSID and security Key as you will need to duplicate the same settings to your wireless devices and PC.		
Apply Cancel		

Wireless security is vital to your network to protect the wireless communication among wireless stations, access points and the wired network. This device

provides the following encryption modes: None, WEP, Auto (WPA or WPA2), WPA2 Only, and WPA Only.

WEP

If the **Security Mode** is set to **WEP**, the page as shown in the following figure appears:

WIRELESS SECURITY			
Use this section to configure the wireless security settings for your router. Please note that changes made on this section will also need to be duplicated to your wireless clients and PC.			
WIRELESS SECURITY MODE			
To protect your privacy you can configure wireless security features. This device supports three wireless security modes including: WEP, WPA and WPA2. WEP is the original wireless encryption standard. WPA and WPA2 provides a higher level of security.			
Security Mode :	WEP		
WEP			
If you choose the WEP security option	this device will ONLY operate in Legacy Wireless mode (802.11B/G).		
WEP is the wireless encryption standard. To use it you must enter the same key(s) into the router and the wireless stations. For 64 bit keys you must enter 10 hex digits into each key box. For 128 bit keys you must enter 26 hex digits into each key box. A hex digit is either a number from 0 to 9 or a letter from A to F. For the most secure use of WEP set the authentication type to "Shared Key" when WEP is enabled.			
You may also enter any text string into a WEP key box, in which case it will be converted into a hexadecimal key using the ASCII values of the characters. A maximum of 5 text characters can be entered for 64 bit keys, and a maximum of 13 characters for 128 bit keys.			
WEP Key Length :	64 bits(10 bex digits or 5 char)		
Choose WEP Key:			
WEP Key1:			
WEP Key2:			
WEP Key3:			
WEP Key4:			
Authentication :	Open 💌		
Please take note of your SSID and security Key as you will need to duplicate the same settings to your wireless devices and			
Apply Cancel			
	Concor		

The following table describes the parameters in this page.

Field	Description
WEP Key Length	You can select 64 bits or 128 bits from the drop-down
	list.
	• If you select 64 bits, you need to enter 10
	hexadecimal numbers or 5 characters.
	• If you select 128 bits, you need to enter 26
	hexadecimal numbers or 13 characters.
Choose WEP Key	Select the WEP key from the drop-down list. Its value
	range is 1—4.
WEP Keys 1—4	Set the 64 bits or 128 bits key, in the format of Hex or
	ASCII.
	Select the authentication mode from the drop-down list.
Authentication	You can select Open or Share Key .

Click **Apply** to save the settings.

Auto (WPA or WPA2)

If the **Security Mode** is set to **Auto (WPA or WPA2)**, the page as shown in the following figure appears:
WIRELESS SECURITY	
Use this section to configure the wireless se to be duplicated to your wireless clients and	curity settings for your router. Please note that changes made on this section will also need PC.
VIRELESS SECURITY MODE	
To protect your privacy you can configure WEP, WPA and WPA2. WEP is the original	wireless security features. This device supports three wireless security modes including: wireless encryption standard. WPA and WPA2 provides a higher level of security.
Security Mode :	Auto(WPA or WPA2)
WPA Encryption :	AES
VPA	
Use WPA or WPA2 mode to achieve a ba maintaining higher security with stations th best security, use WPA2 Only mode. This security. For maximum compatibility, use W mode.	ance of strong security and best compatibility. This mode uses WPA for legacy clients while at are WPA2 capable. Also the strongest cipher that the client supports will be used. For mode uses AES(CCMP) cipher and legacy stations are not allowed access with WPA IPA Only. This mode uses TKIP cipher. Some gaming and legacy devices work only in this
To achieve better wireless performance us	e WPA2 Only security mode (or in other words AES cipher).
WPA-PSK does not require an authentication	on server. The WPA option requires an external RADIUS server.
WPA Mode :	Auto(WPA or WPA2)-PSK
Group Key Update Interval :	100
PRE-SHARED KEY	
Pre-Shared Key :	
Please take note of your SSID and security	Key as you will need to duplicate the same settings to your wireless devices and PC.
	Apply Cancel

The following table describes the parameters in this page.

Field	Description
	You can select Auto (WPA or WPA2)-PSK or Auto (WPA
WPA Wode	or WPA2)-Enterprise from the drop-down list.
WPA Encryption	You can select AES or TKIP+AES from the drop-down list.
Group Key	
Update Interval	Set the interval for updating the key.
Pre-Shared Key	Set the pre-shared key to identify the workstation.

If the **WPA Mode** is set to **Auto (WPA or WPA2)-Enterprise**, the page as shown in the following figure appears:

WPA		
Use WPA or WPA2 mode to achieve a b while maintaining higher security with sta used. For best security, use WPA2 only with WPA security. For maximum compat work only in this mode.	balance of strong security and best compatibility. This mode uses WPA for legacy clients tions that are WPA2 capable. Also the strongest cipher that the client supports will be mode. This mode uses AES(CCMP) cipher and legacy stations are not allowed access biblity, use WPA Only . This mode uses TKIP cipher. Some gaming and legacy devices	
To achieve better wireless performance u	use WPA2 Only security mode (or in other words AES cipher).	
WPA-PSK does not require an authenticat	tion server. The WPA option requires an external RADIUS server.	
WPA Mode :	Auto(WPA or WPA2)-Enterprise 💌	
Group Key Update Interval: 100		
EAP (802.1X)		
When WPA enterprise is enabled, the rou	iter uses EAP (802.1x) to authenticate clients via a remote RADIUS server.	
RADIUS server IP Address :	192.168.1.1	
RADIUS server Port :	2801	
RADIUS server Shared Secret :	testradiuskey	
Please take note of your SSID and securit	y Key as you will need to duplicate the same settings to your wireless devices and PC.	
	Apply Cancel	

You need to enter the IP address, port, shared key of the RADIUS server. Click **Apply** to save the settings.

WPA2 Only

If the **Security Mode** is set to **WPA2 only**, the page as shown in the following figure appears:

WIRELESS SECURITY
Use this section to configure the wireless security settings for your router. Please note that changes made on this section will also need to be duplicated to your wireless clients and PC.
WIRELESS SECURITY MODE
To protect your privacy you can configure wireless security features. This device supports three wireless security modes including: WEP, WEP and WEPA2. WEP is the original wireless encryption standard. WEPA and WEPA2 provides a higher level of security.
Security Mode : WPA2 only
Security Fields Field
WPA Encryption : AES
WPA
Use WPA or WPA2 mode to achieve a balance of strong security and best compatibility. This mode uses WPA for legacy clients while maintaining higher security with stations that are WPA2 capable. Also the strongest client that the client supports will be used. For best security, use WPA2 Only mode. This mode uses AES(CCMP) clipher and legacy stations are not allowed access with WPA security. For maximum compatibility, use WPA Only. This mode uses TKIP clipher. Some gaming and legacy devices work only in this mode.
To achieve better wireless performance use WPA2 Only security mode (or in other words AES cipher).
WPA-PSK does not require an authentication server. The WPA option requires an external RADIUS server.
WPA Mode: WPA2-PSK
Group Key Undate Interval : 100
PRE-SHARED KEY
Pre-Shared Key :
Please take note of your SSID and security Key as you will need to duplicate the same settings to your wireless devices and PC.
Apply Cancel

Parameters in this page are similar to those in the page for **Auto (WPA or WPA2)**.Click **Apply** to save the settings.

WPA Only

If the **Security Mode** is set to **WPA only**, the page as shown in the following figure appears:

WIRELESS SECURITY
Use this section to configure the wireless security settings for your router. Please note that changes made on this section will also need to be duplicated to your wireless clients and PC.
WIRELESS SECURITY MODE
To protect your privacy you can configure wireless security features. This device supports three wireless security modes including: WEP, WPA and WPA2. WEP is the original wireless encryption standard. WPA and WPA2 provides a higher level of security.
Security Mode : WPA only • WPA Encryption : TKIP+AES •
WPA
Use WPA or WPA2 mode to achieve a balance of strong security and best compatibility. This mode uses WPA for legacy clients while maintaining higher security with stations that are WPA2 capable. Also the strongest cipher that the client supports will be used. For best security, use WPA2 Only mode. This mode uses AES(CCMP) cipher and legacy stations are not allowed access with WPA security. For maximum compatibility, use WPA Only. This mode uses TKIP cipher. Some gaming and legacy devices work only in this mode.
To achieve better wireless performance use WPA2 Only security mode (or in other words AES cipher).
WPA-PSK does not require an authentication server. The WPA option requires an external RADIUS server.
WPA Mode : WPA-PSK + Group Key Update Interval : 100
PRE-SHARED KEY
Pre-Shared Key :
Please take note of your SSID and security Key as you will need to duplicate the same settings to your wireless devices and pc.
Apply Cancel

Parameters in this page are similar to those in the page for Auto (WPA or WPA2).

Click **Apply** to save the settings.

3.2.4 Local Network

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

You can also enable the secondary LAN IP address. The primary and the secondary LAN IP addresses must be in different network segments.

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

LOCAL NETWORK				
This section allows you to configure the local network settings of your router. Please note that this section is optional and you should not need to change any of the settings here to get your network up and running.				
ROUTER SETTINGS				
Use this section to configure t the IP Address that you use t may need to adjust your PC's	he local network settings o access the Web-based in network settings to acce	of your router. The Router IP Address that is configured here is management interface. If you change the IP Address here, you ss the network again.		
Router IP Address :	192.168.1.1			
Subnet Mask :	255.255.255.0			
Domain Name :	planet.com			
IP Address :	Configure the second IP A	Address and Subnet Mask for LAN		
Subnet Mask :				

By default, **Enable DHCP Server** is selected for the LAN interface of the device. DHCP service provides IP settings to workstations configured to automatically obtain IP settings that are connected to the device through the Ethernet port. When the device is used for DHCP, it becomes the default gateway for DHCP client connected to it. If you change the IP address of the device, you must also change the range of IP addresses in the pool used for DHCP on the LAN. The IP address pool can contain up to 253 IP addresses. You can also make DHCP server just acting on the specific port, by default, those ports are selected.

If your DHCP server doesn't belong to the same segment with your pc, but you need to assign IP address from DHCP server, you must uncheck the **Enable DHCP Server** and selected the **Enable DHCP Relay** to set the DHCP Relay IP address. And you can also set the preferred and alternate DNS server.

ise this section to configure	the DUCE Relay for your	otur			
ose a lis section to conligure	une DHCP Kelay for your r	etwi	лк.		
	Enable DHCP Relay	_			
Relay IP Address :					
Jse this section to configure	the built-in DHCP Server t	io ass	ign IP addresses to th	e computers on yo	ur network.
	Enable DHCP Server				
DHCP IP Address Range :	192.168.1.2	to	192.168.1.254		
DHCP IP Mask :	255.255.255.0	1			
DHCP Router IP :	192.168.1.1	1			
DHCP Lease Time :	86400	(se	conds)		
Jse the following DNS server	addresses:				
	Enable DNS				
Preferred DNS server :					
Alternate DNS server :		1			
Use this section to configure	the DHCP Server in lan po	int inc	lividual:		
V	LAN Port1				
V	LAN Port2				
\checkmark	LAN Port3				
\checkmark	LAN Port4				
	WLAN Port1				
	WLAN Port2				
	WLAN Port3				
	WLAN Port4				
	A	pply	Cancel		

Click Apply to save the settings.

In the **DHCP CLIENT CLASS LIST** page, you can set an IP address range for some specification device. The page as shown in the following figure appears:

cherre chass	Min Address	Max Address	DNS Address
	Add	Edit Delete	
CP CLIENT CLASS(OPTI	ONAL)		
Client Class Name :			
Min IP Address :			
Max IP Address :			

The following table describes the parameters in this page.

Field	Description
Client Class Name	Enter the Client Class name
Min IP Address	The IP Address for minimum
Max IP Address	The IP Address for maximum
DNS Address	Enter the DNS Address with the client class

In the **LOCAL NETWORK** page, you can assign LAN IP addresses for specific computers according to their MAC addresses.

HCP RESERVATION	S LIST		
Status	Computer Name	MAC Address	IP Address
(Add) (Edit) (Delete			

Click **Add** to add static DHCP reservation. The page as shown in the following figure appears:

ADD DHCP RESERVATION (O	PTIONAL)
Enable :	
Computer Name :	
IP Address :	
MAC Address :	
	Apply Cancel

The following table describes the parameters in this page.

Field	Description	
Frabla	Select the check box to reserve the IP address for the	
Enable	designated PC with the configured MAC address.	
	Enter the computer name. It helps you to recognize the	
Computer Name	PC with the MAC address. For example, Father's	
	Laptop.	
IP Address	Enter the IP address of the computer.	
MAC Address	Enter the MAC address of the computer.	

Click **Apply** to save the settings.

After the DHCP reservation information is saved, the DHCP reservations list displays the information. If the DHCP reservations list is not empty, you can select one or more items and click **Edit** or **Delete**.

NUMBER OF DYNAMIC DHCP CLIENTS :1				
	Computer Name	MAC Address	IP Address	Expire Time
	gj558d	00:11:2f:68:de:69	192.168.1.2	42844

The **NUMBER OF DYNAMIC DHCP CLIENTS** page displays the DHCP clients (PCs or Laptops) currently connected to the device and the detailed information of the connected computers.

3.2.5 LAN IPv6

In this page,you can configure the LAN IPv6. Choose **Setup** > **LAN IPv6**. The **IPv6 LAN setting** page as shown in the following figure appears:

IPV6 LAN SETTINGS		
This page allows you to config IPv6 LAN		
Start Unique Local Prefix		
Unique Local GlobalID	11:22:33:44:55	
Auto get prefix from WAN	•	
Static	0	
Site Prefix		
Site Prefix Length	64	
LAN address config mode:	SLAAC DHCPv6	
	Apply Cancel	

The following table describes the parameters in this page.

Field	Description	
Start Unique Local	Check this enable the	
Prefix		
Unique Local	The default is 11:22:33:44:55	
GlobalID		
Auto get prefix from	Check this to apple the Auto get profix from WAN	
WAN	Check this to enable the Auto get prenx from WAN.	
Static	Check this to enable the static prefix set.	
Site Prefix	Type the Prefix address on this item.	
Site Prefix Length	Means the network ID length, the range is 16-64 bit.	
	You can select the SLAAC and DHCPv6 mode, the	
	describes as follow:	
LAN address config	SLAAC: The PC will obtained the prefix but not	
mode	obtained the DNS	
	DHCPv6: The PC will obtained the prefix and DNS	
	from DHCPv6	

3.2.6 Time and Date

Choose **Setup** > **Time and Date**. The **TIME AND DATE** page as shown in the following figure appears:

TIME AND DATE				
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 Saving can also be configured to automatically adjust the time when needed.				
TIME SETTING				
	Automatically synchronize with Internet time servers			
1st NTP time server :	192.168.2.10			
2nd NTP time server :	192.168.2.100			
TIME CONFIGURATION				
Current Local Time: 2010-10-10 00:05:09				
Time Zone:	(GMT) Greenwhich Mean Time: Dublin, Lisbon, London; Casablanca 🔻			
	Enable Daylight Saving			
Daylight Saving Start:	2000 Year 04 Mon 01 Day 02 Hour 00 Min 00 Sec			
Daylight Saving End:	2000 Year 09 Mon 01 Day 02 Hour 00 Min 00 Sec			
Apply Cancel				

In the **TIME AND DATE** page, you can configure, update, and maintain the time of the internal system clock. You can set the time zone that you are in and the network time protocol (NTP) server. You can also set daylight saving time to automatically adjust the time when needed.

Select **Auto matically synchronize with Internet time servers**. Select the appropriate time server and the time zone from the corresponding drop-down lists.

Select **Enable Daylight Saving** if necessary. Enter the correct the start and end time of the daylight saving.Click **Apply** to save the settings.

3.2.7 Logout

Choose **Setup** > **Logout**. The page as shown in the following figure appears:

LOGOUT

Logging out will close the browser.

Logout

Click Logout to log out of the configuration page.

3.3 Advanced Configuration

This section contains advanced features used for network management, security and administrative tools to manage the device. You can view the status and other information of the device, to examine the performance and troubleshoot.

3.3.1 Advanced Settings

In the **ADVANCED WIRELESS** page, click **Advanced Settings**. The page as shown in the following figure appears:

ADVANCED SETTINGS		
These options are for users that wish to change the behaviour of their 802.11g wireless radio from the standard setting. We does not recommend changing these settings from the factory default. Incorrect settings may impair the performance of your wireless radio. The default settings should provide the best wireless radio performance in most environments.		
ADVANCED WIRELESS SETTINGS		
Transmission Rate : Auto 💌		
Multicast Rate : Lower 🔽		
Transmit Power:	100% 😽	
Beacon Period :	100	(20 ~ 1024)
RTS Threshold :	2346	(0 ~ 2347)
Fragmentation Threshold :	2345	(256 ~ 2346)
DTIM Interval :	100	(1 ~ 255)
Preamble Type :	long 💙	

The following table describes the parameters in this page.

Field	Description	
ADVANCED WIRELESS SETTINGS		
Transmission Poto	Select the transmission rate of the wireless network	
Transmission Rate	from the drop-down list.	
Multi-sect Data	Select the multicast transmission rate of the wireless	
Multicast Rate	network from the drop-down list. You can select Lower	

Field	Description	
	or Higher .	
	Select the power for data transmission from the	
Transmit Power	drop-down list. You can select 100%, 80%, 60%, 40%,	
	or 20% .	
Dessen Deried	By default, the wireless beacon frame sends the data	
Beacon Period	once every 100ms. Its value range is 20—1024.	
DTO Thread ald	The threshold of transmission request. Its value range	
RIS Infeshold	is 0-2347 and the default value is 2346.	
Fragmentation	Its value range is 256—2346 and the default value is	
Threshold	2345.	
	Data beacon proportion (transmission quantity	
DTIM Interval	indication). Its value range is 1—255 and the default	
	value is 100.	
Dreemble Turne	Select the preamble code from the drop-down list. You	
Preamble Type	can select long or short .	

SSID

Enable Wireless :	\checkmark	
SSID	ADN-4100	
Visibility Status :	💿 Visible 🔘 Invisible	
User Isolation:	off 🖌	
Disable WMM Advertise :	off 📉	
Max Clients :	16	(1 ~ 32)

Field	Description
Enable Wireless	Select or deselect the check box to enable or disable the wireless function
SSID	Set the wireless network name, that is, SSID. SSID is used to distinguish different wireless networks.
Visibility Status	Select whether to hide the AP. You can select Visible or Invisible . If you select Invisible , the AP is hidden and the terminal cannot obtain the SSID through passive scanning.

User Isolation	Select whether users of the AP can communicate with each other. You can select Off or On from the drop-down list. On indicates that computers connected to the device cannot communicate with each other.
WMM Advertise	Select whether to enable WMM.
Max Clients	Set the maximum number of clients that can be connected to the AP at the same time. Its value range is 1–32.

_

SSID1	
Enable Wireless Guest Network : 🗌	
SSID: VAP1	
Visibility Status : 💿 Visible 🔘 Inv	isible
User Isolation : off ⊻	
Disable WMM Advertise : off 💌	
Max Clients: 16	(1 ~ 32)
SSID2	
Enable Wireless Guest Network: 🗌	
SSID: VAP2	
Visibility Status : 💿 Visible 🔘 Inv	isible
User Isolation : off 😪	
Disable WMM Advertise : off 😪	
Max Clients : 16	(1 ~ 32)
SSID3	
Enable Wireless Guest Network : 🗌	
SSID: VAP3	
Visibility Status : 💿 Visible 🔘 Inv	isible
User Isolation: off 🎽	
Disable WMM Advertise : off 🛩	
Max Clients: 16	(1 ~ 32)
(Apply)	Cancel

Field	Description
Enable Wireless	Select or deselect the check box to enable or disable
Guest Network	the wireless interface.
SSID	Similar to the primary SSID, it identifies a wireless AP.

These settings are applicable only for more 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.

Click Apply to save the settings.

3.3.1.1 MAC Filtering

In the **ADVANCED WIRELESS** page, click **MAC Filtering**. The page as shown in the following figure appears:

MAC ADDRESS					
The MAC Address Access Control mode, if enabled, permits access to this route from host with MAC addresses contained in the Access Control List.					
Enter the MAC address of the management station permitted to access this route, and click "Apply".					
ACCESS CONTROL MAC ADDRESSES					
MAC Address					
Add Delete					

Click Add and the page as shown in the following figure appears:

MAC ADDRESS			
MAC Addres	5:	(XX:XX:XX:XX:XX:XX)	
	Apply Cancel		

The following table describes the parameters in this page.

Field	Description
	Enter the MAC address of another device that is
MAC Address	included in MAC filtering.

Click Apply to save the settings.

3.3.1.2 Security Settings

In the **ADVANCED WIRELESS** page, click **Security Settings**. The page as shown in the following figure appears:

WIRELESS SECURITY
Use this section to configure the wireless security settings for your router. Please note that changes made on this section will also need to be duplicated to your wireless clients and PC.
WIRELESS SSID
Select SSID : ADN-4100 V
WIRELESS SECURITY MODE
To protect your privacy you can configure wireless security features. This device supports three wireless security modes including: WEP, WPA and WPA2. WEP is the original wireless encryption standard. WPA and WPA2 provides a higher level of security.
Security Mode : None
Please take note of your SSID and security Key as you will need to duplicate the same settings to your wireless devices and PC.
Apply Cancel

Select the desired SSID 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**. For parameters of different encryption types, see section.3.2.3.2. Wireless Security Click **Apply** to save the settings.

3.3.1.3 WPS Settings

In the ADVANCED WIRELESS page, click WPS Setting. The WIRELESS WPS page as shown in the following figure appears:

WIRELESS WPS				
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.				
WPS				
Enabled : 🗹				
SSID : ADN-4100				
Select Mode : Enrollee 💌				
Configuration State : Configured 💌				
Push Button : PBC				
Input Station PIN : PIN				
WPS Session Status :				
Apply Cancel				



Note:

Ensure that the network card supports the WPS function.

Field	Description
Enabled	The WPS service is enabled by default.
Select Mode	Select Enrollee or Registrar from the drop-down list.
	Select Configured or Unconfigured from the
Configuration State	drop-down list. Configured Means the WPS featuere
	already standby. Otherwise the Unconfigured means
	not yet ready
	If you are using the PIN method, you need a Registrar,
Input Station PIN	either an access point or a wireless router, to initiate
	the registration between a new device and an active

Field	Description
	access point or a wireless router.

You can use one of the following there methods to use WPS authentication:

- Press the WPS button on the side panel for 3 seconds.
- In the WIRELESS WPS page, click PBC. It has the same function of the • WPS button on the side panel. This is an optional method on wireless clients.



Note:

You need a Registrar when using the PBC method in a special case in which the PIN is all zeros.

3.3.1.4 WDS Settings

In the ADVANCED WIRELESS page, click WDS Settings. The WIRELESS WDS page as shown in the following figure appears:

WDS SETTINGS				
Wireless repeater function can make the WLAN signal cover more area. Fill the blanks and then Apply.				
Enable WDS:				
Wireless MAC of this router: 00:30:4f:23:45:67				
REPEATER MAC ADDRESS 1: REPEATER MAC ADDRESS 2: REPEATER MAC ADDRESS 3: REPEATER MAC ADDRESS 4:				

The Wireless repeater function can make the WLAN signal cover more area. Fill the blanks and then Apply.

3.3.2 Port Forwarding

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

Choose **Advanced** > **Port Forwarding**. The page as shown in the following figure appears:

PORT FORWARDING					
Port Forwarding allows you to direct incoming traffic from the WAN side (identified by protocol and external port)to the internal server with a private IP address on the LAN side. The internal port is required only if the external port needs to be converted to a different port number used by the server on the LAN side. A maximum of 80 entries can be configured.					
Select the service name, and enter the server IP address and click "Apply" to forward IP packets for this service to the specified server. Note: Modifying the Internal Port Start or Internal Port End is not recommended. If the External Port Start or the External Port End changes, the Internal Port Start or Internal Port End automatically changes accordingly.					
PORT FORWARDING SETUP					
Server Wan External Port Start/End Protocol Internal Port Start/End Server IP Schedule Remote Name Connection Start/End Protocol Start/End Address Rule IP					
Add Edit Delete					

Click **Add** to add a virtual server. See the following figure:

PORT FORWARDING SETUP

Remaining number of	f entries	that can b	e config	ured:	32		
WAN Conne	ection(s)	pppoe_0_3	35_0_0	*			
Serve	er Name:						
Select a	Service:	click to sel	ect			*	
Custon	1 Server:						
S	chedule:	always 🚩	View	Availat	ole Schedules:		
Server IP	Address:	192.168.1					
External Port Start	External	Port End	Proto	ocol	Internal Port Start	Internal Port End	Remote Ip
			TCP	*			
			TCP	~			
			TCP	*			
			TCP	~			
			TCP	*			
			TCP	~			
			TCP	*			
			TCP	~			
			TCP	~			
			TCP	~			
			TCP	~			
			TCP	*			
			1	Apply	Cancel		

Please refer the description as below:

Field	Description
WAN Connection	Select the WAN connection which you want the remote
WAN Connection	side via this connection to access in.
Select a Service	Select the default service for the port forwarding.
	If you can't find the service in the default service
Custome Server	column, you can create a new service name by
	yourself.
Schedule	Choose the schedule which you want to open the port

Field	Description
	forwarding feature. You also can click" View Available
	Schedules ."to select the schedule.
	Enter an IP address in the Server IP Address field, to
Server IP Address	appoint the corresponding PC to receive forwarded
	packets.
External Dart	Enter the service (service/Internet application) port
External Port	number from the Internet that will be re-directed to the
Stan-End	above Server IP Address host in your LAN
Protocol	Select the port number protocol type (TCP, UDP).
	This is the port number (of the above Server IP
Internal Port	Address) that the External Port number will be changed
Start-End	to when the packet enters your LAN (to the LAN
	Server/Client IP)
	The Remote IP means only this IP address can be
Remote Ip	forward to the local side, if leave this item blank, then
	every remoter IP can be forwarding.

Click **Apply** to save the settings. The page as shown in the following figure appears. A virtual server is added.

F	PORT FORWARDING									
Po int co	Port Forwarding allows you to direct incoming traffic from the WAN side (identified by protocol and external port)to the internal server with a private IP address on the LAN side. The internal port is required only if the external port needs to be converted to a different port number used by the server on the LAN side. A maximum of 80 entries can be configured.									
Se sp S t ac	Select the service name, and enter the server IP address and click "Apply" to forward IP packets for this service to the specified server. Note: Modifying the Internal Port Start or Internal Port End is not recommended. If the External Port Start or the External Port End changes, the Internal Port Start or Internal Port End automatically changes accordingly.									
РО	PORT FORWARDING SETUP									
	Server Wan External Port Protocol Internal Port Server IP Schedule Remote ID Start/End Address Rule ID									
	AUTH pppoe_0 113/113 tcp 113/113 192.168.1.2 Always									
	Add Edit Delete									

3.3.3 DMZ

Choose Advanced > DMZ. The page as shown in the following figure appears:

DMZ						
The DSL Router will forward IP packets from the WAN that do not belong to any of the applications configured in the Port Forwarding table to the DMZ host computer.						
Enter the computer's IP address and click "ApplyS" to activate the DMZ host.						
Clear the IP address field and click "Apply" to deactivate the DMZ host.						
DMZ HOST						
WAN Connection: pppoe_0_35_0_0						
Enable DMZ:						
DMZ Host IP Address						
(Apply) Cancel						

In this page, you can enable a DMZ host. In this way, access from Internet to the WAN IP address of the device is forwarded to the DMZ host and network server of the internal LAN is protected.

Click Apply to save the settings.

3.3.4 Parental Control

Choose **Advanced** > **Parental Control**. The **PARENTAL CONTROL** page as shown in the following figure appears:

PARENTAL CONTROL BLOCK WEBSITE	
Uses URL (i.e. www.yahoo.com) to implement	filtering.
	Block Website
PARENTAL CONTROL MAC FILTER	
Uses MAC address to implement filtering.	
	MAC Filter
	47

This page provides two useful tools for restricting Internet access. **Block Website** allows you to quickly create a list of websites that you wish to prevent users from accessing. **MAC Filter** allows you to control Internet access by clients or PCs connected to the device.

3.3.4.1 Block Website

In the **PARENTAL CONTROL** page, click **Block Website**. The page as shown in the following figure appears:

BLOCK WEBSITE							
This page allows you to block websites. If enabled, the websites listed here will be denied access to clients trying to browse that website.							
BLOCK WEBSITE							
URL Schedule							
	Add Edit Delete						

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

ADD SCHEDULE RULE					
URL :	http://				
Schedule :	Allways Y View Available Schedules				
O Manual Schedule :					
Day(s):	○ All Week ④ Select Day(s)				
	Sun Mon Tue Wed				
	Thu Fir Sat				
All Day - 24 hrs:					
Start Time":	: (hour:minute, 24 hour time)				
End Time:	: (hour:minute, 24 hour time)				
	Apply Cancel				

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

Click **Apply** to add the website to the **BLOCK WEBSITE** table. The page as shown in the following figure appears:

BLOCK WEBSITE								
This page allows you to block websites. If enabled, the websites listed here will be denied access to clients trying to browse that website.								
BLOCK WERSTTE								
	URL	Schedule						
O www.163 Always								
Add Edit Delete								

3.3.4.2 MAC Filter

In the **PARENTAL CONTROL** page, click **MAC Filter**. The page as shown in the following figure appears:

BLOCK MAC ADDRESS							
This page adds a time of day restriction to a special LAN device connected to the router. The "Current PC's MAC Address" 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 Windows-based PC, open a command prompt window and type "ipconfig /all".							
Mac Filtering Global Policy:							
BLACK_LISTAllow all packets but DENY tho WHITE_LISTDeny all packets but ALLOW the	se matching any of specific ru hose matching any of specific	ıles listed rules listed					
Apply Cancel							
BLOCK MAC ADDRESSBLACKLIST							
Username MAC Schedule							
Add Edit Delete							

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

User Name:	
O Current PC's MACAddress:	00:22:b0:68:de:69
Other MAC Address :	
Schedule:	Allways View Available Schedules
Manual Schedule :	
Day(s) :	○ All Week ④ Select Day(s)
	Sun Mon Tue Wed
	Thu Fri Sat
All Day - 24 hrs	
art Time	: (hour:minute, 24 hour time)
End Time	: (hour:minute, 24 hour time)
	(Apply) Capcel

The following table describes the parameters in this page.

Field	Description	
Lloor Nomo	Enter the name that identifies your configuration. For	
User Name	example, <i>kids</i> .	
Current PC's MAC	Enter the MAC address of the computer that connects	
Address	to the device.	
Other MAC Address	Enter the MAC address of another device that is	
Other MAC Address	included in MAC filtering.	
Cabadula	Select the time of MAC filter from the drop-down list.	
Schedule	You can select always or never .	
Manual Cabadula	If you select this check box, you need to manually set	
Manual Schedule	the time of MAC filtering.	

Enter the use name and MAC address. Select the corresponding time and days. Then, click **Apply** to add the MAC address to the **BLOCK MAC ADDRESS** table. The page as shown in the following figure appears:

BLOCK MAC ADDRESS								
This page adds a time of day restriction to a special LAN device connected to the router. The "Current PC's MAC Address" 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 Windows-based PC, open a command prompt window and type "ipconfig /all".								
Mac Filtering (Global Policy:							
BLACK_LISTAllow all packets but DENY those matching any of specific rules listed WHITE LISTDenv all packets but ALLOW those matching any of specific rules listed								
Apply Cancel								
BLOCK MAC ADDRESSBLACKLIST								
	Username MAC Schedule							
0	AB 00:11:22:33:44:55 Always							
Add Edit Delete								

3.3.5 Filtering Options

Choose **Advanced** > **Filtering Options**. The **FILTERING OPTIONS** page as shown in the following figure appears:

FILTERING OPTIONS IP FILTERING	
Uses IP address to implement filtering.	
IP Filtering	
FILTERING OPTIONS BRIDGE FILTERING	
Uses MAC address to implement filtering. Usefull only in bridge mode.	
Bridge Filtering	

3.3.5.1 IP Filtering

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

IP FILTER								
The screen allows you to create a filter rule to identify incoming IP traffic by specifying a new filter name and at least one condition below. All of the specified conditions in this filter rule must be satisfied for the rule to take effect. Click "Apply" to save and activate the filter.								
IREWALL								
Name	Interface	Туре	Default action	Bytes	Pkts			
	l l	Add Filter Edit F	ilter Delete Filter					
RULE								
Enabled Protoc	ol Action RejectTy	De IcmpType OrigI	P/ Mask OrigPort DestIP	/ Mask DestPort	Bytes Pkts			
		Add Rule Edit F	ule Delete Rule					

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

IP FILTER					
The screen allows y below. All of the sp filter.	ou to create a filter rule to acified conditions in this filt) identify incoming IP t ter rule must be satisfi	raffic by specifying a new filter na ed for the rule to take effect. Click	me and at least one "Apply" to save and	condition d activate the
FIREWALL					
Name	Interface	Туре	Default action	Bytes	Pkts
FILTER INFO		Add Filter Edit	Filter Delete Filter		
	Name: Interface: LAN	•			
	Type: In Permit	v t v			
	Default Chain: Local	~			
		Apply	Cancel		

Field	Description	
Name	Enter the name that identifies your configuration.	
Interfece	Select LAN or the other connection from the drop-down	
Internace	list.	
Туре	Select the In, Out or Both from the drop-down list.	
Default action	Select the Permit or Drop from the drop-down list.	
Default Chain	Select the Local, Forward or Both from the	
	drop-down list.	

After set the firewall info finish, click Add Rule to add an IP filter rule. The page as shown in the following figure appears:

RULE INFO				
Notes: 1.When Protocol is 'ICMP',one of IcmpType to be selected; 2.When Action is 'Reject',one of RejectType to be selected; 3.Only when Protocol is 'TCP',may RejectType select 'tcp-reset';				
Enabled:				
Protocol:	*			
Action:	Permit -			
RejectType:	-			
IcmpType:	T			
origIPAddress:				
origMask:				
origStartPort:	0			
origEndPort:	0			
destIPAddress:				
destMask:				
destStartPort:	0			
destEndPort:	0			
	Apply Cancel			

Check the Enabled and specify at least one of the following criteria: protocol, source/destination IP address, subnet mask, and source/destination port. Then, click **Apply** to save the settings.



Note:

The settings apply only when the firewall is enabled.

3.3.5.2 Bridge Filtering

In the **FILTERING OPTIONS** page, click **Bridge Filtering**. The page as shown in the following figure appears:

BRIDGE FILTER				
Bridge Filtering is only effective on ATM PVCs configured in Bridge mode. ALLOW means that all MAC layer frames will be ALLOWED except those matching with any of the specified rules in the following table. DENY means that all MAC layer frames will be DENIED except those matching with any of the specified rules in the following table.				
Create a filter to identify the MAC layer frames by specifying at least one condition below. If multiple conditions are specified, all of them take effect. Click "Apply" to save and activate the filter.				
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.				
Bridge Filtering Global Policy: ③ ALLOW all packets but DENY those matching any of specific rules listed. ○ DENY all packets but ALLOW those matching any of specific rules listed				
Apply Cancel				
DISPLAY LIST				
VPI/VCI protocol DMAC SMAC DIR TIME				
Add Edit Delete				

This page is used to configure bridge parameters. In this page, you can modify the settings or view the information of the bridge and its attached ports.

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

DD BRIDGE FILTER		
Protocol Type: (Click to Sele	ect) 💙	
Destination MAC Address:	(x00000000000)	
Source MAC Address:		
Frame Direction: WAN=>LAN	×	
Time schedule: always 💌	View Available Schedules	
Wan interface: select all inte	erface 💌	
	Apply Cancel	

The following table describes the parameters in this page.

Field	Description
Protocol Type	Select the protocol type to be mapped from the

Field	Description
	drop-down list. You can select PPPoE, IPv4, IPv6,
	AppleTalk, IPX, NetBEUI, or IGMP.
Destination MAC	Enter the destination MAC address to be manual
Address	Enter the destination MAC address to be mapped.
Source MAC	Estantia source MAC address to be menned
Address	Enter the source MAC address to be mapped.
	Select the frame direction to be mapped from the
Frame Direction	drop-down list. The device supports frame direction
	from LAN to WAN and WAN to LAN.
Time schedule	Select the time that you want to apply the rule from the
	drop-down list. You can select Always or Never.
Wan interface	Select the WAN interface to be mapped from the
	drop-down list.

Click Apply to save the settings.

3.3.6 QoS Configuration

Choose **Advanced** > **QoS Configuration**. The page as shown in the following figure appears:

QOS GLOBAL OPTIONS	
Configure QoS Global Options.	
	Configure QoS Global Options
QOS QUEUE CONFIGURATION	
Configure QoS Queue.	
	Configure QoS Queue
QOS CLASSIFICATION CONFIGURATION	
Configure QoS Classification.	
	Configure QoS Classification

3.3.6.1 QoS Global Option

In the **QoS Configuration** page, click **QoS Global Option**. The page as shown in the following figure appears:

QOS GLOBAL CONFIGURATION	
Enable Queuing Operation 🗵	
	Submit Refresh

In this page, you can select or deselect the check box to enable or disable the Queuing Operation.

3.3.6.2 Queue Configuration

In the **QoS Configuration** page, click **Qos Queue Configuration.** The page as shown in the following figure appears:

Direction 💿 Uplink(Lan -> Wan) 🔘 Downstream(Wan -> Lan)				
	Enable 🔽			
Upstream Bandwidth 0 Kbps (0 means no limit bandwidth)			bandwidth)	
Schee	luling Strateg	y SP 🔽	(Note: Scheduling change would clear	the queue configuration)
Enabl	e DSCP Remar	k 🗌		
Enable 802.1P Remark				
Enable :	802.1P Remar	k 🗆		
Enable : REAM QUE	802.1P Remar UE CONFIGURA Name	k TTON Enable	Precedence	Egress Interface
Enable S REAM QUE Number 1	BO2.1P Remar	K	Precedence	Egress Interface WAN 💌
Enable S REAM QUE Number 1 2	BO2.1P Remar	K	Precedence 1 2	Egress Interface WAN V
Enable : REAM QUED Number 1 2 3	B02.1P Remar	TION Enable	Precedence 1 2 3	Egress Interface WAN ♥ WAN ♥

In this page, you can configure the upstream bandwidth and downstream bandwidth of each interface. The uplink rate and the downlink rate are limited according to the configured bandwidth. You also can set the priority of the queue.

The device supports the following four priority levels: 1,2,3,4. Click **Submit** to save the settings.

3.3.6.3 Classification Configuration

In the **QoS Configuration** page, click **QoS Classification Configuration**. Click **Add** and the page as shown in the following figure appears:

QOS FLOW CLASSIFY CONFIG		
Classify Type O Upstream Flow Classify O Downstream Flow Classify Enable		
CLASSIFY CONDITIONS		
Ip Protocol Type	IPv4	
Input Interface	LAN	
Source MAC address		
Source MAC mask		
802.1P	Not Match 💙	
Source IPv4 address		
Source subnet mask		
Destination subjet mask		
DSCP Check	Not Match	
Protocol Type	Not Match 💙	
Source port range		
Destination port range	-	
CLASSIFY MATCH RESULT		
Classify Queue	Unbound 💌	
DSCP Mark	Not Mark	
COS Mark	Not Mark 💌	

The following table describes the parameters in this page.

Field	Description
	You can select Upstream Flow Classify or
Classify Type	Downstream Flow Classify
Enable	Select or deselect the check box to enable or disable

Field	Description		
	QoS classification.		
SPECIFY TRAFFIC CLASSIFICATION RULES			
Input Interface	Select the physical port of the packet from the drop-down list. For example, ethernet1, ethernet2, ethernet3, and ethernet4.		
Source MAC Address	Enter the source MAC address of the packet.		
Source MAC Mask	Use mask 000000ffffff to mask the MAC address. 00 indicates not mapped and ff indicates mapped.		
802.1P	Select the 802.1p priority of the packet from the drop-down list. You can select Not match or a value in the range of 0—7. Note that this function is not supported at the moment.		
Source IPv4 Address	Enter the Source IP address of the packet.		
Source subnet mask	Enter the Source subnet mask of the packet.		
Destination IPv4 Address	Enter the destination IP address of the packet.		
Destination subnet mask	Enter the destination subnet mask of the packet.		
Ethernet Type	Select the layer 2 protocol type from the drop-down list. For example, IP protocol and IPX protocol.		
DSCP check	You can use this feature to differentiate the complex data type from the drop-down list.		
Protocol Type	Select the protocol on this column.		
Source port range	Enter the source port range of the packet.		
Destination port range	Enter the destination port range of the packet.		
CLASSIFY MATCH RE	SULT		
Classify Queue	Specify the queue to which the packet belongs. You can set the queue in the classification configuration.		
DSCP Mark	Attach the DSCP mark to the mapped packet.		
Cos Mark	Attach the 802.1p mark to the mapped packet.		

Click **Submit** Apply to save the settings.

3.3.7 Firewall Settings

A denial-of-service (DoS) attack is one of the most common network attacks and is characterized by an explicit attempt by attackers to prevent legitimate users of a service from using that service. It usually leads to overload of system server or core dump of the system.

Choose **Advanced** > **Firewall Settings**. The page as shown in the following figure appears:

FIREWALL SETTINGS		
Click "Apply" button to make the changes effective immediately.		
FIREWALL CONFIGURATION		
Enable Attack Prevent		
Icmp Echo 🔽		
Fraggle 🗹		
Echo Chargen 🗹		
IP Land 🗹		
Port Scan 🗹		
TCP Flags: Set "SYN FIN" 🔽		
TCP Flags: Set "SYN RST" 🔽		
TCP Flags: Set "FIN RST" 🔽		
TCP DoS: 🗹		
TTCP DoS Max Rate: 50 (packets/second)		
Apply Cancel		

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 as shown in the following figure appears:

DNS			
Click "Apply" button to save the new configuration.			
DNS SERVER CONFIGURATION			
Wan Connection : br_0_35_0_0 🗸			
 Obtain DNS server address automatically 			
 Use the following DNS server addresses 			
Preferred DNS server :			
Alternate DNS server :			
Apply Cancel			

The following table describes the parameters in this page.

Field	Description	
Wan Connection	Select the WAN interface of the DNS server to be	
	connected from the drop-down list.	
	If you select this radio button, the device	
Obtain DNS server	automatically obtains IP address of the DNS server	
address automatically	from the ISP. You need not manually enter the IP	
	address of the server.	
Use the following DNS server addresses	If you select this radio button, you need to manually enter the IP address of the server provided by the ISP.	
Preferred DNS server	Enter the IP address of the primary DNS server.	
	Enter the IP address of the secondary DNS server. If	
Alternate DNS server	the primary DNS server fails to work, the device tries	
	to connect the secondary DNS server.	

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 if 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 as shown in the following page appears:

DDNS The Dynamic DNS feature allows you to host a server (Web, FTP, Game Server, etc) using a domain name that you have purchased (www.xox.com) with your dynamically assigned IP address. Most broadband Internet Service Providers assign dynamic (changing) IP addresses. Using a DDNS service provider, your friends can enter your host name to connect to your game server no matter what your IP address is.				
Hostname	Username	Service	Interface	
Add Edit Delete				

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

ADD DYNAMIC DNS	
DDNS provider:	DynDNS.org 💌
Hostname:	
Interface:	pppoe_0_35_0_0 💌
Username:	
Password:	
(Apply) Cancel	
The following table describes the parameters in this page.

Field	Description
DDNS provider	Select the DDNS provider from the drop-down list. You
	can select Planet , DynDns.org, TZO, or GnuDIP.
Hostname	Enter the host name that you register with your DDNS
	provider.
	Select the interface that is used for DDNS service from
Interface	the drop-down list. The IP address of the interface
	corresponds to the host name.
Username	Enter the user name of your DDNS account.
Password	Enter the password of your DDNS account.

Click Apply to save the settings.

3.3.10 Network Tools

Choose **Advanced** > **Network Tools**. The **NETWORK TOOLS** page as shown in the following figure appears:

NETWORK TOOLS PORT MAPPING
Port Mapping supports multiple port to PVC and bridging groups. Each group will perform as an independent network.
Port Mapping
NETWORK TOOLS IGMP PROXY
Transmission of identical content, such as multimedia, from a source to a number of recipients.
IGMP Proxy
NETWORK TOOLS IGMP SNOOPING
Transmission of identical content, such as multimedia, from a source to a number of recipients.
IGMP Snooping
NETWORK TOOLS UPNP
Allows you to enable or disable UPnP.
Upnp
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NETWORK TOOLS ADSL	
Allows you to configure advanced settings for ADSL.	
	ADSL
NETWORK TOOLS SNMP	
Network Tools SNMP	
	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
NETWORK TOOLS PPTP	
рртр	
	PPTP
NETWORK TOOLS TREEC	
HEIWORK IOULS IPSEC	
Allows you to configure ipsec.	
	IPSEC

This page contains the following function items: **Port Mapping**, **IGMP Proxy**, **IGMP Snooping**, **UPnP**, **ADSL**, **SNMP**, **TR-069**, **Certificates**, **PPTP**.and **IPSec**

3.3.10.1 Port Mapping.

In the **NETWORK TOOLS** page, click **Port Mapping**. The page as shown in the following figure appears:

PORT	PORT MAPPING	
Port Mapping A maximum 5 entries can be configured Port Mapping supports multiple port to PVC and bridging groups. Each group will perform as an independent network. To support this feature, you must create mapping groups with appropriate LAN and WAN interfaces using the "Add" button. The "Delete" button will remove the grouping and add the ungrouped interfaces to the Default group.		
PORT	MAPPING SETUP	
	Group Name	Interfaces
	Lan1	ethernet1, ethernet2, ethernet3, ethernet4, wlan0, wlan0-vap0, wlan0-vap1,
		Add Edit Delete

In this page, you can bind the WAN interface and the LAN interface to the same

group. Click **Add** to add port mapping. The page as shown in the following figure appears:

ADD PORT MAPPING	
To create a new mapping group:	
 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.	
PORT MAPPING CONFIGURATION	
Group Name:	
Grouped Interfaces Available Interfaces	
ethernet1	
ethernet2 ethernet3	
ethernet4	
wian0	
<- wiano-vapo	
wlan0-vap2	
Apply Cancel	

To create a mapping group, do as follows:

- **Step 1** Enter the group name.
- Step 2 Select interfaces from the Available Interfaces list and click the -arrow button to add them to the Grouped Interfaces list, in this way, you can create the required mapping of the ports. The group name must be unique.
- Step 3 Click Apply to save the settings.

3.3.10.2 IGMP Proxy

In the **NETWORK TOOLS** page, click **IGMP Proxy**. The page as shown in the following figure appears:

IGMP PROXY		
IGMP proxy enables the system to issue IGMP host interfaces. The system acts as a proxy for its hosts 1. Enabling IGMP proxy on a WAN interface (upstrea 2. Enabling IGMP on a LAN interface (downstream),	messages on behalf of hosts when you enable it by: m), which connects to a rou which connects to its hosts.	that the system discovered through standard IGMP ter running IGMP.
IGMP PROXY CONFIGURATION		
	Enable IGMP Proxy	
WAN Connection :	*	
Enable PassThrough :		
Enable FastLeaving :		
General Query Interval :	120	(seconds)
General Query Response Interval:	1	(*100 milliseconds)
Group Query Interval :	125	(seconds)
Group Query Response Interval:	1	(*100 milliseconds)
Group Query Count :	3	
Last Member Query Interval :	1	(seconds)
Last Member Query Count :	2	
	Apply Cancel]

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

Select Enable IGMP Proxy and select the desired WAN and click **Apply** to save the settings.

3.3.10.3 IGMP Snooping

When IGMP snooping is enabled, only hosts that belong to the group receive the multicast packets. If a host is deleted from the group, the host cannot receive the multicast packets any more.

In the **NETWORK TOOLS** page, click **IGMP Snooping**. The page as shown in the following figure appears:

IGMP
Transmission of identical content, such as multimedia, from a source to a number of recipients.
IGMP SETUP
Enable IGMP Snooping
(Apply) Cancel

Click Apply to save the settings.

3.3.10.4 UPnP

In the **NETWORK TOOLS** page, click **Upnp**. The page as shown in the following figure appears:

UPNP	
Universal Plug and Play (UPnP) supports peer-to-peer Plug and Play functionality for network devices.	
UUPNP SETUP	
Enable UPnP	
WAN Connection:	
LAN Connection:	
Apply Cancel	

In this page, you can enable universal plug and play (UPnP) and then the system serves as a daemon.

UPnP is widely applied in audio and video software. It automatically searches devices in the network. If you are concerned about UPnP security, you can disable it. Select the WAN and LAN interfaces at which you want to enable UPnP and click **Apply** to save the settings.

3.3.10.5 ADSL Settings

In the **NETWORK TOOLS** page, click **ADSL**. The page as shown in the following figure appears:

ADSL SETTINGS
This page is used to configure the ADSL settings of your ADSL router. You need to disable DSL before you change the ADSL mode.
DSL SETTINGS
Enable DSL
☑ G.Dmt Enabled
G.Lite Enabled
T1.413 Enabled
☑ ADSL2 Enabled
🗹 AnnexL Enabled
ADSL2+ Enabled
AnnexM Enabled
Capability
🗹 Bitswap Enable
SRA Enable
1 bit Constellation Modulation Enable
Apply

In this page, you can select the ADSL modulation. Normally, you are recommended to keep the factory defaults. The device supports the following modulation types: G.Dmt, G.lite, T1.413, ADSL2, AnnexL, ADSL2+, and AnnexM. The device negotiates the modulation mode with the DSLAM.

Click **Apply** to save the settings.

3.3.10.6 SNMP

In the **NETWORK TOOLS** page, click **SNMP**. The page as shown in the following figure appears:

SNMP CONFIGURATION		
This page is used to configure the SNMP protocol.		
SNMP CONFIGURATION	SNMP CONFIGURATION	
V	Enable SNMP Agent	
Read Community:	public	
Set Community:	private	
Trap Manager IP:		
Trap Community:	public	
Trap Version:	v2c 💌	
	(Apply) Cancel	

In this page, you can set the SNMP parameters. The following table describes the parameters in this page.

Field	Description
Enable SNMP Agent	Select or deselect the check box to enable or disable
	SNMP agent.
	Universal character to obtain the device information. It
Read Community	is similar to the password. The SNMP application entity
	can use it to directly obtain the device information.
Set Community	Universal character to modify the device configuration.
	It is similar to the password. The SNMP application
	entity can use it to directly modify the device
	configuration.
Trap Manager IP	Enter the address of the server that receives the trap
	message.
Trap Community	The field that is included in the trap message sent by
	the device.
Trap Version	Select the trap version from the drop-down list. You can
	select v1 or v2c.

Click Apply to save the settings.

3.3.10.7 TR-064

In the **NETWORK TOOLS** page, click enable item to enable the **TR-064**. The page as shown in the following figure appears:

TR064 CONFIGURATION
This page is used to configure the TR064 protocol.
TR064 CONFIGURATION
Enable TR064
Apply Cancel

3.3.10.8 TR-069

In the **NETWORK TOOLS** page, click **TR-069**. The page as shown in the following figure appears:

TR-069	
WAN Management Protocol (TR-069) allows a A diagnostics to this device.	uto-Configuration Server (ACS) to perform auto-configuration, provision, collection, and
Select the desired values and click "Apply" to co	nfigure the TR-069 client options.
R-069 CLIENT CONFIGURATION	
TR069 Configuration	O Disabled
Inform:	O Disabled
Inform Interval:	86400
ACS URL:	
ACS User Name:	
ACS Password:	•••••
	Connection Request Authentication
Connection Request User Name:	
Connection Request Password:	
	Apply Cancel

In this page, you can configure the TR-069 CPE. The following table describes the parameters in this page.

Field	Description	
TR069 Configuration	You can select Disabled or Enabled to disable or enable TR-069 configuration.	
Inform	 You can select Disabled or Enabled to disable or enable notification. Disabled indicates that the device does not automatically send requests to the TR069 server. Enabled indicates that the device automatically sends a request of connection to the TR069 server. The following function items are available only when Inform is set to Enabled. 	
Inform Interval	The interval of sending a request of connection to the TR069 server from the device.	
ACS URL	The path of the TR069 server to which the device sends a request.	
ACS User Name	The user name that the devices uses to log in to the TR069 server.	
ACS Password The password that the devices uses to log in to the TR069 server.		
Connection Request Authentication	Select the check box to enable authentication of connection request. If you enable the function, you need to enter the user name and password for authentication.	
Connection Request User Name	The user name that the TR069 server uses to access the TR069 progress of the device.	
Connection Request Password	The password that the TR069 server uses to access the TR069 progress of the device.	

Click **Apply** to save settings.

3.3.10.9 Certificates

In the NETWORK TOOLS page, click Certificates. The Certificates page as shown in the following figure appears:

CERTIFICATES TRUSTED CA	
Trusted CA certificates are used by you to verify peers's certificates. Trusted CA	

Click **Trusted CA** and the page as shown in the following figure appears:

ſR	USTED CA (CERTIFICATE	AUTHORITY) CERTIFICATES		
	Name	Subject	Туре	Action
Input Certificate				

- 1



Note:

Before importing a certificate, you must synchronize the system time with time server. Otherwise, the certificate fails to be imported.

Click Input Certificate to import a certificate. The page as shown in the following figure appears:

TRUSTED CA CERTIF	ICATES		
Enter certificate name and paste certificate content			
IMPORT CA CERTIFIC	ATE		
Certificate Name:			
Certificate:	<pre>BEGIN CERTIFICATE END CERTIFICATE </pre>		
M			
	Back Apply Cancel		

3.3.10.10 PPTP

The **Point-to-Point Tunneling Protocol** (PPTP) is a method for implementing virtual private networks. PPTP uses a control channel over TCP and a GRE. tunnel operating to encapsulate PPP packets.

In the **NETWORK TOOLS** page, click **PPTP**, the page as shown in the following figure appears.

рртр				
Allows you to transmit data in safety	tunnel.			
PPTP SETUP				
Enable PPTP				
Local IP Start:	192.168.1.1			
Local IP Num.:	20			
Remote IP Start:	192.168.1.100			
Remote IP Num.:	20			
Netmask:	255.255.255.0 Apply	Cancel		
User	name	Password		
	Add Edit	Deiete		
CONNECTION LISTT				
0	Tunnel(s)Used	20 Tunnel(s)Availiable		
User Name	Remote Address	PPTP IP Address		

The following table describes the parameters in this page.

Field	Description
Local IP Start	The started IP address of the local network.
	The valid numbers of local IP addresses. It works
Local IP Num	together with the Local IP Start to determine the range
	of the local IP addresses.
Remote IP Start	The started IP address of the remote network.
	The valid numbers of remote IP addresses. It works
Remote IP Num	together with the Remote IP Start to determine the
	range of the remote IP addresses.
Notmask	It is valid for both the local network and the remote
Nelmask	network.
Tunnel(s)Used	The number means which PPTP tunnel have be used.
Tunnel(s)Availiable	The number means how many PPTP are available.

Clicks add, the page as shown in the following figure appears.

Username:		
Password:		
Password:		

The following table describes the parameters in this page.

Field	Description
Licornamo	The user name that is used for dialup to connect the
Usemanie	modem to the PPTP.
Password	The password that is used for dialup to connect the
	modem to the PPTP.

3.3.10.11 IPSec

In the **NETWORK TOOLS** page, click **IPSEC**. The page as shown in the following figure appears.

IPSEC				
Add, delete IPSec tunnel connections in this page.				
IPSEC TUNNEL MODE CONNECTIONS.				
Enable IPSEC				
Name Remote Gateway Local Addresses Remote Addresses Interface				
	Ad	ld Edit Dele	te	

In this page, you can add, edit and delete the IPSec tunnel connections

Select **Enable IPSEC**, and click **Add**, the page as shown in the following figure appears.

IPSEC				
Add, delete IPSec tunnel connections in thi	s page.			
IPSEC TUNNEL MODE CONNECTIONS.				
✓ Enable IPSEC				
Name Remote Gateway	Local Addresses	Remote Addresses	Interface	
	Add Edit Delete			
IPSEC SETTINGS				
IPSec Connection Name	: name			
Tunnel Mode	: ESP 🕶			
Remote IPSec Gateway Address	: 0.0.0.0			
Tunnel access from local IP address	: Subnet 💌			
IP Address for VPN	: 0.0.0.0			
IP Subnetmask	: 255.255.255.0			
Tunnel access from remote IP address	: Subnet			
IP Address for VPN	: 0.0.0.0			
IP Subnetmask	: 255.255.255.0			
Key Exchange Method	: Auto(IKE) V			
Pre-Shared Key	: key			
IKE Settings				
Phase 1				
Mode				
Integrity Alogorithm	: MD5 V			
Diffie-Hellman Group Key Exchange	: 768bit 🛩			
Key Life Time	: 3600			
Phase 2				
Encryption Algorithm	: DES 💌			
Integrity Alogorithm	: MD5 🖌			
Key Life Time	: 3600			
Use Interface	: pppoe_0_35_0_0 💌			
	Apply Cancel			

Field	Description		
IPSec Connection	The connection name of the marker IPSec.		
Name			
Tunnel Mode	You can select ESP or AH.		
Remote IPSec	The IP or domain name of the Remote IPSec		
Gateway Address	Gateway.		
Tunnel access from	You can select Subnet or Single Address.		
local IP address	If you select Single Address, it allows only one PC		
	from local to connect remote hosts with IPSEC		
	mode. You must enter the IP address of the PC in		
	fourth item.		
	If you select subnet , it allows more than one PC		
	from local to connect remote hosts with IPSEC		
	mode.		
IP Address for VPN	If you select Single Address, it is the IP address of		
	the PC. If you choose Subnet , it is the subnet		
	address.		
IP Subnetmask	Enter the subnetmask for IP.		
Tunnel access from	You can select Subnet or Single Address.		
remote IP address			
Key Exchange Method	You can select from the drop-down list.		
	Auto(IKE)		
	Auto(IKE)		
	ivianuai .		
Pre-Shared Key	Enter the pre-shared key.		
IKE Settings			
	You can select from the drop-down list.		
Mode	Main 💌		
Mode	Main		
	Aggressive		
Encryption Algorithm	You can select from the drop-down list.		

Field	Description		
	DES DES 3DES AES-128 AES-192 AES-256		
Integrity Algorithm	You can select from the drop-down list. MD5 MD5 SHA1		
Diffie-Hellman Group Key Exchange	You can select from the drop-down list. 768bit 768bit 1024bit 1536bit 2048bit 3072bit 4096bit		
Key Life Time	Enter the time of key life.		
Use Interface	Select the use interface		

This is a dynamic page. The displays are different (some options are shown and hidden) when different types or connections are chosen.

In this page, set the parameters such as the IPSec connection name, tunnel mode, and remote IPSec gateway address.

After finishing setting, click **Apply** to save the settings.

3.3.11 Routing

Choose **Advanced** > **Routing**. The page as shown in the following page appears:

STATIC ROUTE	
Static Route.	
	Static Route
POLICY ROUTE	
Policy Route.	
	Policy Route
DEFAULT GATEWAY	
Default Gateway.	
	Default Gateway
RIP SETTINGS	
RIP Settings.	
	RIP Settings

This page contains the following function items: **Static Route, Policy Router, Default Gateway** and **RIP setting**.

3.3.11.1 Static Route

Choose **Advanced** > **Routing** and click **Static Route**. The page as shown in the following figure appears:

STATIC ROUTE			
Enter the destination network addre entry to the routing table.	ess, subnet mask, gateway AND/OR a	vailable WAN interface th	nen click "Apply" to add the
A maximum 30 entries can be co	nfigured.		
ROUTING STATIC ROUTE			
Destination	Subnet Mask	Gateway	Interface
	Add Edit Delet	е	

This page displays the information of existing static routes. Click **Add** and the page as shown in the following figure appears:

STATIC ROUTE ADD	
Destination Network Address :	
Subnet Mask:	
Use Gateway IP Address:	
Use Interface:	pppoe_0_35_0_0
	Apply Cancel

The following table describes the parameters in this page.

Field	Description	
Destination Network	The destination IP address of the device. The subnet mask of the destination IP address.	
Address		
Subnet Mask		
Use Gateway IP	The noteway ID address of the daying	
Address	The gateway IP address of the device.	
	Select the interface of the static routing used by the	
Use interrace	device from the drop-down list.	

Note: You can enter the gateway IP address of the device in the Use Gateway IP Address field or set the User Interface, but cannot apply the two settings at the same time.

3.3.11.2 Policy Route

Choose **Advanced** > **Routing** and click **Policy Route.** Click Add and the page as shown in the following figure appears:

POLICY ROUTE	
Policy Route :chose one Wanconnection and one Lanconnection then bind them.	
OLICY ROUTE SETUP	
WAN	LAN
Add Delete	
WAN INSTANCE AND LAN INSTANCE	
WAN Connection pppoe_0_35_0_5_Internet v	
LAN Connection ethernet1	
Apply Cancel	

In this page, you can select the interfaces on your device that use RIP of the protocol used.

If you enable RIP, the device communicates with other devices using the routing information protocol (RIP).Click **Apply** to save the settings.

3.3.11.3 Default Gateway.

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

DEFAULT GATEWAY
If Enable Automatic Assigned Default Gateway checkbox is selected, this router will accept the first received default gateway assignment from one of the PPPoA, PPPoE or MER/DHCP enabled PVC(s). If the checkbox is not selected, enter the static default gateway OR a WAN interface. Click "Apply" button to save it.
DEFAULT GATEWAY
Enable Automatic Assigned Default Gateway
Use Gateway IP Address :
Use Interface. pppoe_0_35_0_0 V
Apply Calcel

In this page, you can select **Enable Automatic Assigned Default Gateway**, or enter the information in the **Use Gateway IP Address** and **Use Interface** fields. Click **Apply** to save the settings.

3.3.11.4 RIP Settings

Choose **Advanced** > **Routing** and click **RIP**. The page as shown in the following figure appears:



In this page, you can view the interfaces on your device that use RIP and the version of the protocol used. If you enable RIP, the device communicates with other devices using the routing information protocol (RIP). Click **Apply** to save the settings.

3.3.12 Schedules

Choose **Advanced** > **Schedules**. The page as shown in the following figure appears:

SCHEDULES					
Schedule allows you to create scheduling rules to be applied for your firewall.					
Maximum number of	Maximum number of schedule rules: 20				
SCHEDULE RULES					
Rule Name Sun Mon Tue Wed Thu Fri Sat Start Time stop time					
Add Edit Delete					

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

ADD SCHEDULE RULE
Name :
Day(s): O All Week ③ 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)
(Apply) Cancel

The following table describes the parameters in this page.

Field	Description	
Name	Set the name of the schedule.	
Dav(s)	You can select one, more, or all of the seven days in a	
Duy(0)	week.	

Field	Description		
All Day 24 brs	If you select the check box, the rule applies throughout		
All Day – 24 115	the 24 hours of the day.		
Start Time	Set the start time of the firewall.		
End Time	Set the end time of the firewall.		

Click Apply to save the settings.

3.3.13 NAT

Choose **Advanced** > **NAT**. The page as shown in the following figure appears:

AT		
ditional NAT wou	Id allow hosts within a private network to transparently access hos	sts in the external network, in most cases. In a
eptional basis usi	ng static address maps for pre-selected hosts.	ons in the opposite direction may be allowed of
TABLES		
Name	Totownol TD Addunge	External ID Address
wanie	Internal IP Address	External IP Address
	Add Edit Delete	
SETTINGS		
	Entry Name :	
	Internal IP Type : Single IP 💌	
Int	ernal IP Address :	
	External IP Type : Single IP 💌	
Ext	ernal IP Address :	

Traditional NAT would allow hosts within a Internal network to transparently access hosts in the external network, you can select **Single IP** or **IP Range** with the Internal and External IP type and enter the Internal and External IP address to decide witch Internal IP address transparently the specify External IP address.

3.3.14 Logout

Choose **Advanced** > **Logout**. The page as shown in the following figure appears:

LOGOUT		
Logging out will close the browser.		
	Logout	

Click Logout to log out of the configuration page

3.4 Management

3.4.1 System

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

SYSTEM REBOOT
Click the button below to reboot the router.
Reboot
SYSTEM BACKUP SETTINGS
Back up Router configurations. You may save your router configurations to a file on your PC.
Note: Please always save configuration file first before viewing it.
Backup Setting
SYSTEM UPDATE SETTINGS
Update Router settings. You may update your router settings using your saved files.
Settings File Name: Browse
Update Settings
SYSTEM RESTORE DEFAULT SETTINGS
Restore Router settings to the factory defaults.
Restore Default Setting

In this page, you can restart the device, back up the current settings to a file, update the backup file, and restore the factory default settings.

The following table describes the buttons in this page.

Button	Description		
Reboot	Restart the device.		
	Specify the path to back up the current configuration in		
Backup Setting	a configuration file on your computer. You can rename		
	the configuration file.		
	Click Browse to select the configuration file of device		
Update Settings	and click Update Settings to update the configuration		
	of the device.		
Restore Default			
Setting	Reset the device to default settings.		



Caution:

Do not turn off your device or press the Reset button when the procedure is in progress.

3.4.2 Firmware Update

Choose **Management** > **Firmware Update**. The page as shown in the following figure appears:



In this page, you can upgrade the firmware of the device. To update the firmware, do as follows:

Step 1 Click Browse...to select the file.

Step 2 Select Clear Config.

Step 3 Click Update Firmware to update the configuration file.

The device loads the file and reboots automatically.

Caution:

Do not turn off your device or press the Reset button when the procedure is in progress.

3.4.3 Access Controls

Choose **Management** > **Access Controls**. The **ACCESS CONTROLS** page as shown in the following figure appears:

ACCESS CONTROLS ACCOUNT PASSWORD
Manage DSL Router user accounts.
Account Password
ACCESS CONTROLS SERVICES
A Service Control List ("SCL") enables or disables services from being used.
Services
ACCESS CONTROLS IP ADDRESS
Permits access to local management services.
IP Address

This page contains Account Password, Services, and IP Address.

3.4.3.1 Account Password

In the **ACCESS CONTROLS** page, click **Account Password**. The page as shown in the following figure appears:

ACCOUNT PASSWORD

Access to your DSL Router is controlled through three user accounts: admin, support, and user.

The user name "support" is used to allow an ISP technician to access your DSL Router for maintenance and to run diagnostics. This user name can not be used in local.

The user name "user" can access the DSL Router, view configuration settings and statistics, as well as update the router's firmware.

Use the fields below to enter up to 16 characters and click "Apply" to change or create passwords. Note: Password cannot contain a space.

ACCOUNT PASSWORD

Username:	admin 💌
New Username:	admin
Current Password:	
New Password:	
Confirm Password:	
(Passwords support 16 characters,	such as 0~9,a~z,A~Z)
	Apply Cancel
WEB IDLE TIME OUT SETTINGS	
Web Idle Time Out:	29 (5 ~ 30 minutes)
	Apply Cancel

In this page, you can change the password and set the time for automatic logout. You are recommended to change the default password to ensure the security of your network. Ensure that you remember the new password or write it down and keep it in a safe location for future reference. If you forget the password, you need to reset the device to the factory default settings. In that case, all configuration settings of the device are lost.

Field	Description		
ACCOUNT PASSWORD			
	Select a user name from the drop-down list to access		
Usemane	the device. You can select admin, user.		
New Username	Enter the new username.		
Current Password	Enter the password of the user.		
New Password	Enter the new password.		
Confirm Password	Enter the new password again for confirmation.		
WEB IDLE TIME OUT SETTINGS			
Set the time after which the system automatically			
Web Idle Time Out	the configuration page. Its value range is 5—30		
	minutes.		

The following table describes the parameters in this page.

Click Apply to apply the settings.

3.4.3.2 Services

In the **ACCESS CONTROLS** page, click **Services**. The page as shown in the following figure appears:

SERVICES						
A Service Control List ("SCL") enables or disables services from being used.						
ACCESS CON	ITROL SERVICES					
Se	lect WAN Connections	0 35 0 0 💌				
Service	LAN	WAN	WAN Access	Destination Host(IP	/ Mask	: : Port)
HTTP			0.0.0.0	/ 0.0.0.0	:	80
ICMP			0.0.0.0	/ 0.0.0.0	:	0
TELNET			0.0.0.0	/ 0.0.0.0	:	23
TFTP	V		0.0.0.0	/ 0.0.0.0	:	69
DNS	V	✓	0.0.0.0	/ 0.0.0.0	:	53
Apply Cancel						

In this page, you can enable or disable the services that are used by the remote host. For example, if telnet service is enabled at port 23, the remote host can access the device by telnet through port 23.

Select the management services that you want to enable or disable at the LAN or WAN interface and click **Apply** to apply the settings.



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

3.4.3.3 IP Address

In the **ACCESS CONTROLS** page, click **IP Address**. The page as shown in the following figure appears:

IP ADDRESS			
The IP Address Access Control mode, if enabled, permits access to local management services from IP addresses contained in the Access Control List. If the Access Control mode is disabled, the system will not validate IP adresses for incoming packets. The services are the system applications listed in the Service Control List.			
Enter the IP address of the management station permitted to access the local management services, and click "Apply".			
ACCESS CONTROL IP ADDRESSES			
Enable Access Control Mode			
IP			
Add Delete			

In this page, you can configure the IP address in the access control list (ACL). If ACL is enabled, only devices of the specified IP addresses can access the device.

Select Enable Access Control Mode to enable ACL.

D Note:

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

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

IP ADDRESS			
IP Address :			
	Apply	Cancel	

Enter the IP address of the desired device in the IP Address field and click **Apply** to apply the settings.

3.4.4 Diagnostics

Choose **Management** > **Diagnosis**. The page as shown in the following figure appears:

WAN DIAGNOSTICS		
WAN Diagnostics.		
	WAN Diagnostics	
PING DIAGNOSTICS		
Ping Diagnostics		
	Ping Diagnostics	

This page contains WAN Diagnostics and Ping Diagnostics.

3.4.4.1 WAN Diagnostics

In the $\ensuremath{\text{Diagnosis}}$ page, click $\ensuremath{\text{WAN}}$ $\ensuremath{\text{Diagnostics.}}$ The page as shown in the

following figure appears:

DIAGNOSTICS
The DSL router can test your DSL connection. The individual tests are listed below. If a test displays a fail status, click the "Run Diagnostic Test" button again to make sure the fail status is consistent.
WAN Connection br_0_35_0_0

In this page, you can test the connection status of the device. Click **Run Diagnostic Test** to run diagnostics. The page as shown in the following figure appears:

TEST THE CONNECTION TO YOUR LOCAL NETWORK

Test your LAN 1 Connection	FAIL
Test your LAN 2 Connection	FAIL
Test your LAN 3 Connection	PASS
Test your LAN 4 Connection	FAIL
Test your Wireless Connection	PASS

TEST THE CONNECTION TO YOUR DSL SERVICE PROVIDER

Test ADSL Synchronization	FAIL
Test ATM 0AM F5 Segment Loopback	FAIL
Test ATM OAM F5 End-to-end Loopback	FAIL
Test ATM OAM F4 Segment Loopback	FAIL
Test ATM OAM F4 End-to-end Loopback	FAIL

3.4.4.2 Ping Diagnostics

In the **Diagnosis** page, click **Ping Diagnostics.** The page as shown in the following figure appears:

PING DIAGNOSTICS	
Run Ping diagnostics.	
PING CONFIGURATION	
Host :	192.168.1.1
Number of Packets Repreat :	5
Timeout (ms) :	1000
Packet Size :	56
Ping Results :	
	×
	Ping

In this page, you can test the IP address on the same segment connect status of the device. Click **Ping** to run diagnostics.

3.4.5 Log Configuration

Choose **Management** > **Log Configuration**. The **SYSTEM LOG** page as shown in the following figure appears:

SYSTEM LOG				
If the log mode is enabled, the system will begin to log all the selected events. If the selected mode is "Remote" or "Both", 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.				
Select the desired values and click "Apply" to configure the system log options.				
Note: This will not work correctly if modem time is not properly set! Please set it in "Setup/Time and Date"				
SYSTEM LOG CONFIGURATION				
Enable Log				
Mode : Local 💌				
Server IP Address :				
Server UDP Port :				
Apply Cancel View System Log View Firewall Log				

In this page, you can enable the log function. You can set **Mode** to **Local**, **Remote**, or **Both**. **Local** indicates to save the log in the local computer. **Remote** indicates to send the log to the remote log server. **Both** indicate to save the log in the local computer and the remote log server.

To log the events, do as follows:

- Step 1 Select Enable Log.
- Step 2 Select a mode from the drop-down list.If you select Remote or Both, enter the IP address and port number of the server.
- Step 3 Click Apply to apply the settings.
- Step 4 Click View System Log or View Firewall Log to view the detail information of the system log.

3.4.6 Logout

Choose **Management** > **Logout**. The page as shown in the following figure appears:

LOGOUT	
Logging out will close the browser.	
	Logout

Click **Logout** to log out of the configuration page.

3.5 Status

In the **Status** page, you can view the system information and monitor the performance of the device.

3.5.1 Device Information

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

This information reflects	s the current status of you	r WAN connection.		
SYSTEM INFO				
Modem Name :		ADN	4100	
Serial Number :		0030	4fce945a	
Time and Date :		2010	-10-10 00:23:00	
HardwareVersion :		ADN	4100	
SoftwareVersion :		V1.7		
Firmware Version :		V1.7		
System Up Time :		00:2	3:54	
INTERNET INFO				
Internet INFO	Status : 💌			
INTERNET INFO Internet Connection Internet Connection	Status : 🔽			
INTERNET INFO Internet Connection Internet Connection Wan service type:	Status : 🔽			
Internet Connection Internet Connection Unternet Connection Wan service type: Default Gateway:	Status : 🔽			
Internet Connection Internet Connection Wan service type: Default Gateway: Preferred DIIS Serv	Status : 🔽 n Status: er:			
Internet Connection Internet Connection Wan service type: Default Gateway: Preferred DNS Serv Alternate DNS Serv	Status : 💌 n Status: er: er:			
Internet Connection Internet Connection Wan service type: Default Gateway: Preferred DNS Serv Alternate DNS Serv Ipv6 link local addr	Status : 💌 n Status: er: er: :			
Internet Connection Internet Connection Wan service type: Default Gateway: Preferred DNS Serv Alternate DNS Serv Ipv6 link local addr IPv6 RA addr	Status : 💌 n Status: er: er: :			
Internet Connection Internet Connection Wan service type: Default Gateway: Preferred DNS Serv Alternate DNS Serv Ipv6 link local addr IPv6 RA addr IPv6 DHCP:	Status : 💌 n Status: er: er: :			
Internet Connection Internet Connection Wan service type: Default Gateway: Preferred DNS Serv Alternate DNS Serv Ipv6 link local addr IPv6 RA addr IPv6 DHCP: Downstream Line R	Status : 💌 n Status: er: er: : ate (Kbps):)	
Internet Connection Internet Connection Wan service type: Default Gateway: Preferred DNS Serv Alternate DNS Serv Ipv6 link local addr IPv6 RA addr IPv6 DHCP: Downstream Line Rate	Status : V n Status: er: er: : ate (Kbps): (Kbps):	2400 160		
Internet Connection Internet Connection Wan service type: Default Gateway: Preferred DIS Serv Alternate DIS Serv Ipv6 link local addr IPv6 RA addr IPv6 RA addr IPv6 DHCP: Downstream Line Rate	Status : 💌 n Status: er: er: : : ate (Kbps): : (Kbps):	2400 160		
Internet Connection Internet Connection Wan service type: Default Gateway: Preferred DIS Serv Alternate DIS Serv Ipv6 link local addr IPv6 RA addr IPv6 RA addr IPv6 DHCP: Downstream Line Rate	Status : V n Status: er: er: : ate (Kbps): (Kbps): constant ertite (Kbps):	2400 160)	

elect wireless : ADN-4100 💌		
MAC Address: 00:30:4f:ce:94:63		
Status:	Enable	
Network Name (SSID):	ADN-4100	
Visibility: Visible		
Security Mode:	Basic	
Security Mode: CAL NETWORK INFO MAC Address:	Basic 00:30:4f:ce:94:5a	
Security Mode: CAL NETWORK INFO MAC Address: IP Address:	Basic 00:30:4f:ce:94:5a 192.168.1.1	
Security Mode: CAL NETWORK INFO MAC Address: IP Address: Subnet Mask:	Basic 00:30:4f:ce:94:5a 192.168.1.1 255.255.255.0	

The page displays the summary of the device status, including the system information, WAN connection information, wireless information, and local network information.

3.5.2 Wireless Clients

Choose **Status** > **Wireless Clients**. The page as shown in the following page appears:

WIRELESS CLIENTS					
This page shows authenticated wireless stations and their status.					
WIRELESS AUTHENTICATED STATIONS					
Mac Associated Ip Address Authorized SSID Interface					
Refresh					

The page displays authenticated wireless stations and their statuses.

3.5.3 DHCP Clients

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

DHCP CLIENTS	DHCP CLIENTS				
This information reflects the	This information reflects the current DHCP client of your modem.				
DHCP LEASES					
Hostname	Hostname MAC Address IP Address Expires In				
gj558d	00:11:2f:68:de:69	192.168.1.2	42554		
Refresh					

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

3.5.4 IPv6 STATUS

Choose **Status** >IPv6 **Status**. The page as shown in the following figure appears:

IPV6 STATUS	
In this section you can see the information for the IPv6 Connection.	
IPV6 CONNECTION	
Wan Connection :	*
Connection Type :	
IPv6 Address/Prefix Len :	
Gateway :	
Pri Dns :	
Sec Dns :	
Prefix Info :	
Status :	
Refresh	
In this section you can see the information for the IPv6 Connection. Click **Refresh** to refresh the system IPv6 status shown in the page.

3.5.5 Logs

Choose **Status** > **Logs**. The page as shown in the following figure appears:

LOGS			
This page allows you to view system logs.			
SYSTEM LOG			
			~
			×
	Refresh		

This page displays the system log. Click **Refresh** to refresh the system log shown in the box.

3.5.6 Statistics

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

DEVICE INFO

This information reflects the current status of your DSL connection.

LOCAL NETWORK & WIRELESS

interface	face Received			Transmitte	Transmitted			
	Bytes	Pkts	Errs	Rx drop	Bytes	Pkts	Errs	Tx drop
ADN-4101	66034626	879783	0	0	7900049	34189	0	0

INTERNET

Service	VPI/VCI	Protocol	Receive	d			Transmi	tted		
			Bytes	Pkts	Errs	Drops	Bytes	Pkts	Errs	Drops

Downstream	0 Enable ACTIVATING. Upstream
Downstream	Enable ACTIVATING. Upstream
Downstream	ACTIVATING.
Downstream	Upstream
Downstream	Upstream
Downstream	Upstream
0	
U	0
0	0
0.0	0.0
0	0
0	0
0	0
0	0
0 Clear	0 Clear
0	0
0	0
0	0
0	0
0	0
0	0
	0.0 0.0 0 0 0 0 Clear 0 0 0 0 0 0 0 0 0 0 0 0 0

The information helps technicians to identify whether the device is functioning properly. The information does not affect the functions of the device.

3.5.7 Route information

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

OUTE INFO							
VICE INFO ROUTE							_
Destination	Gateway	Subnet Mask	Flags	Metric	Service	Interface	
192.168.1.0	0.0.0.0	255.255.255.0	U	0	0	br1	
	OUTE INFO gs: U-up, !-reject, G-g VICE INFO ROUTE Destination 192.168.1.0	OUTE INFO gs: U-up, !-reject, G-getway, H-host, R VICE INFO ROUTE Destination Gateway 192.168.1.0 0.0.0.0	OUTE INFO gs: U-up, I-reject, G-getway, H-host, R-reinstate, D-dynamic (red VICE INFO ROUTE Pestination Gateway Subnet Mask 192.168.1.0 0.0.0.0 255.255.255.0	OUTE INFO gs: U-up, I-reject, G-getway, H-host, R-reinstate, D-dynamic (redirect), M-m //ICE INFO ROUTE Destination Gateway Subnet Mask Flags 192.168.1.0 0.0.0.0 255.255.255.0 U	OUTE INFO gs: U-up, I-reject, G-getway, H-host, R-reinstate, D-dynamic (redirect), M-modified (redir VICE INFO ROUTE Destination Gateway Subnet Mask Flags Metric 192.168.1.0 0.0.0.0 255.255.255.0 U 0	OUTE INFO gs: U-up, I-reject, G-getway, H-host, R-reinstate, D-dynamic (redirect), M-modified (redirect) //ICE INFO ROUTE Destination Gateway Subnet Mask Flags Metric Service 192.168.1.0 0.0.0.0 255.255.255.0 U 0 0	OUTE INFO gs: U-up, I-reject, G-getway, H-host, R-reinstate, D-dynamic (redirect), M-modified (redirect) //ICE INFO ROUTE Destination Gateway Subnet Mask Flags Metric Service Interface 192.168.1.0 0.0.0.0 255.255.255.0 U 0 0 br1

The table displays destination routes commonly accessed by the network.

3.5.8 Logout

Choose Status > Logout. The page as shown in the following figure appears:

LOGOUT		
Logging out will close the browser.		
	Logout	

Click **Logout** to log out of the configuration page.

3.6 Help

If you want to realize some information for each configuration, you can click the hyperlink in the Help page

HELP MENU
• Setup • Advanced • Management • Status
SETUP HELP
Wizard Internet Setup Wretess Local Network, Time and Date
ADVANCED HELP
Advanced Wireless Port Forwarding OMZ Parental Control Filtering Options Firewall Settings ODIS DONS Network Topis Return Schedules
MANAGEMENT HELP
System Management Firmware Ludate Access Controls Diagnosis Log Configuration
STATUS HELP
Device Info Wreless Clients DHCP: Clients Loads Statistics Route Info

Appendix A : Specification

Product		802.11n Wireless ADSL 2/2+ 4-Port Router			
Model		ADN-4100A			
Hardwar	e				
Standard	d	 Compliant with ADSL Standard Full-rate ANSI T1.413 Issue 2 G.dmt (ITU G.992.1) G.lite (ITU G.992.2) G.hs,Multimode (ITU G.994.1) Capable of ADSL2 Standard G.dmt.bis (ITU G.992.3) Capable of ADSL2+ Standard G.dmt.bisplus (ITU G.992.5) Reach Extended ADSL (RE ADSL) Support Annex A, B, M, L 			
Protocol		 RFC 2364 - PPP over ATM (LLC/VCMUX) RFC 2516 - PPP over Ethernet (LLC/VCMUX) RFC 1483 -Ethernet over ATM-(Bridge or Router Mode) RFC 1577 -Classical IP over ATM RFC 2684 - Bridged IP over ATM (LLC/VCMUX) RFC 2684 - Routed IP over ATM (LLC/VCMUX) 			
AAL and ATM Support		 Support up to 8 PVCs ATM Forum UNI 3.1/4.0 PVC VC and LLC Multiplexing Integrated ATM AAL5 support(UBR,CBR,VBR-rt, and VBR-nrt) 0~255 VPI plus 1~65535 VCI address range OAM F4 & F5 Segment end-to-end loop-back, AIS, and RDI OAM cells 			
	LAN	4 x Ethernet (10/100Mbps, Auto-Negotiation, Auto MDI/MDI-X)			
Ports	WLAN	2 x 802.11b/g/n Access Point with one 5dBi dipole antenna			
	WAN	1 x RJ-11			
LED Indi	icators	PWR, Link, Data, LAN 1~4, WLAN, WPS			
Button WLAN, Reset, WPS, Power					

Max. Concurrent	2048
Sessions	
Wireless Standard	IEEE 802.11b, g and 802.11n
Wireless Frequency	2.4 to 2.4835GHz (Industrial Scientific Medical Band)
	America/ FCC: 2.414~2.462GHz (11 Channels)
Wireless Channels	Europe/ ETSI: 2.412~2.472GHz (13 Channels)
	Japan/ TELEC: 2.412~2.484GHz (14 Channels)
Wireless Data	64 bit / 128 bit WEP, WPA-PSK / WPA2-PSK, and WPS
Encryption	PBC
	 802.11n (40MHz):
	270/243/216/162/108/81/54/27Mbps
	135/121.5/108/81/54/40.5/27/13.5Mbps (Dynamic)
Wireless Data Bata	 802.11n (20MHz):
Wheless Data Rate	130/117/104/78/52/39/26/13Mbps
	65/58.5/52/39/26/19.5/13/6.5Mbps (Dynamic)
	 802.11g: 54/48/36/24/18/12/9/6Mbps (Dynamic)
	 802.11b: 11/5.5/2/1Mbps (Dynamic)
Transmission Distance	Indoor up to 100m
	outdoor up to 300m (it is limited to the environment)
	11b mode: 17dBm
Transmit Power	11g mode: 14dBm
	11n mode: 14dBm
	270M: -68dBm@10% PER
	130M: -68dBm@10% PER
	108M: -68dBm@10% PER
Receiver Sensitivity	54M: -68dBm@10% PER
	11M: -85dBm@8% PER
	6M: -88dBm@10% PER
	1M: -90dBm@8% PER
Software	
Protocols/Features	NAT supports PAT and multimedia applications
	NAT, Static Routing, and RIPv1/2
	Transparent Bridging
	Dynamic Domain Name System (DDNS)
	DNS relay and IGMP proxy
	Diviz and virtual Server
	TP 060 Poody
	IR-009 Reduy
	UFIIF

VPN	PPTP/IPSec VPN pass through				
	2 PPTP VPN Tunnel				
	8 IPSec VPN Tunnel				
Security	PPP over PAP (Password Authentication Protocol,				
	RFC1334)				
	PPP over CHAP (Challenge Authentication Protocol,				
	RFC1994)				
	DoS Protection				
	ACL (Access Control)				
	Stateful Packet Inspection (SPI) Firewall				
	Password protection for system management				
Management	Web bood configuration				
linanagomont	web-based configuration				
	Embedded Telnet server for remote and local				
	management				
	Firmware upgraded and configuration data				
	upload/download via WEB				
	SNMP v1/v2c MIB supported				
	Support DHCP Server/Client/Relay				
	Built-in Diagnostic tool				
	TR-069				
Environment Specificatio	n				
Dimension(W x D x H)	169 x 118 x 29 mm (W x D x H)				
Power	12V DC, 0.8A				
Temmenetune	Operating temperature: 0 ~ 50 Degree C				
lemperature and	Storage temperature: -10 ~ 70 Degree C				
numuity	Humidity: 10 ~ 95% non-condensing				
Emission	FCC, CE				