

I-Fly Wireless Router ADSL 4 Fast Ethernet ports, Firewall, VPN with 3DES accelerator

A02-WRA4-54G

User's Reference Guide V1.0



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CE Mark Warning

This is a Class A product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

Important Note

The antenna(s) used for this equipment must be installed to provide a separation distance of at least 30 cm from all persons.

This equipment must not be operated in conjunction with any other



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Chapter 1 Introduction

1.1 An Overview of the ADSL Firewall Router

Broadband Sharing and IP sharing

The I-Fly Wireless Router ADSL supports 4 ports 10/100 Mbps auto-negotiating Fast Ethernet for connection to your local area network (LAN) and downstream (with built-in ADSL modem) rate up to 8Mbps.

With integrated IEEE802.11g Wireless Access Point, the device offers quick and easy access among wired network and wireless network. The I-Fly Wireless Router also supports WPA security, it increases the level of data protection and access control for Wireless LAN.

Power by NAT technology, dozens of network users can surf on the Internet and share the ADSL connection simultaneously by using one ISP account and one single IP address. Firmware upgradeable to ADSL2.

Quality of Service and IP Throttling

QoS gives you full control over which types of outgoing data traffic should be given priority by the router, ensuring important data like gaming packets move through the router at lightning speed, even under heavy load.

If you have ever found your net speed has slowed to a crawl because another family member is using a P2P file sharing program, you'll understand why the Quality of Service (QoS) features on the router are such a breakthrough.

Using IP Throttling, bandwidth limits can be enforced on any system within your LAN, or even on a particular application.

Firewall Security with (SPI, DoS) and VPN (IPSec, PPTP)

The I-Fly Wireless Router ADSL offers not only NAT but also provides powerful firewall, which are able to filter the advanced hacker pattern. It can automatically detect and block Denial of Service (DoS) attacks and thanks to the ability of Stateful Packet Inspection (SPI) it determines if a data packet is allowed through the firewall to the private Lan. It manages the VPNs IPSec or PPTP, for establishing a private tunnel over the public Internet to ensure transmission security between two or more sites. With built-in DES/3DES accelerator, the router enhances the IPSec VPN performance significantly. Up to 16 simultaneous VPN tunnels are supported.

Easy Configuration and Management

Support web based GUI, Telnet and Hyperterminal for configuration and management. Also supports remote management (Web and telnet) capability for remote user to configure and manage this product. It incorporates besides a client DynamicDNS



1.2 Package Contents

- One I-Fly Wireless Router ADSL
- One CD-ROM containing the online manual
- One Quick Start Guide
- One RJ-11 ADSL/telephone cable
- One CAT-5 LAN cable
- One AC-DC power adapter (12VDC, 1A)
- One PS2-RS232(DB9) cable

If any of the above items are missing, please contact your reseller.

1.3 I-Fly Wireless Router ADSL Features

Wireless ADSL Firewall Router provides the following features:

- **ADSL Multi-Mode Standard:** Supports downstream transmission rates of up to 8Mbps and upstream transmission rates of up to 1024Kbps. It also supports rate management that allows ADSL subscribers to select an Internet access speed suiting their needs and budgets. It is compliant with Multi-Mode standard (ANSI T1.413, Issue 2; G.dmt (G.992.1); G.lite (G992.2).
- Upgradeable to ADSL2: Supports downstream transmission rates of up to 12Mbps
- Wireless Ethernet 802.11g: With built-in 802.11g access point for extending the communication media to WLAN while providing the WEP and WPA for securing your wireless networks. The I-Fly Wireless Router ADSL has included the first solution for turbo charging 802.11g systems called PRISM Nitro. It provides up to 50% greater throughput performance in homogenous 802.11g networks and enhanced protection mechanisms to significantly increase mixed-mode network performance.
- **Fast Ethernet Switch:** A 4-port 10/100Mbps fast Ethernet switch is supported in the LAN site and automatic switching between MDI and MDI-X for 10Base-T and 100Base-TX ports is supported. An Ethernet straight or cross-over cable can be used directly, this fast Ethernet switch will detect it automatically.
- Quality of Service and IP Throttling: QoS gives you full control over which types of outgoing data traffic should be given priority by the router, ensuring important data like gaming packets move through the router at lightning speed, even under heavy load. If you have ever found your net speed has slowed to a crawl because another family member is using a P2P file sharing program, you'll understand why the Quality of Service (QoS) features on the router are such a breakthrough. Using IP Throttling, bandwidth limits can be enforced on any system within your LAN, or even on a particular application.
- **Multi-Protocol to Establish A Connection:** Supports PPPoA (RFC 2364 PPP over ATM Adaptation Layer 5), RFC 1483 encapsulation over ATM (bridged or routed), PPP over Ethernet (RFC 2516), and IPoA (RFC1577) to establish a connection with the ISP. The product also supports VC-based and LLC-based multiplexing.
- **Quick Installation Wizard:** Supports a WEB GUI page to install this device quickly. With this wizard, an end user can enter the information easily which they from the ISP, then surf the Internet immediately.





- Universal Plug and Play (UPnP) and UPnP NAT Traversal: This protocol is used to enable simple and robust connectivity among stand-alone devices and PCs from many different vendors. It makes network simple and affordable for users. UPnP architecture leverages TCP/IP and the Web to enable seamless proximity networking in addition to control and data transfer among networked devices.
- Network Address Translation (NAT): Allows multi-users to access outside resource such as Internet simultaneously with one IP address/one Internet access account. Besides, many application layer gateway (ALG) are supported such as web browser, ICQ, FTP, Telnet, E-mail, News, Net2phone, Ping, NetMeeting and others.
- **Firewall:** Supports SOHO firewall with NAT technology. Automatically detects and blocks the Denial of Service (DoS) attack. The URL-blocking, packet filtering and SPI are also supported. The hacker's attack will be recorded associated with timestamp in the security logging area. More firewall features will be added continually, please visit our web site to download latest firmware.
- **Domain Name System (DNS) relay:** provides an easy way to map the domain name (a friendly name for users such as <u>www.yahoo.com</u>) and IP address. When a local machine sets its DNS server with this router's IP address, then every DNS conversion requests packet from the PC to this router will be forwarded to the real DNS in the outside network. After the router gets the reply, then forwards it back to the PC.
- **Dynamic Domain Name System (DDNS):** The Dynamic DNS service allows you to alias a dynamic IP address to a static hostname. This dynamic IP address is the WAN IP address. For example, to use the service, you must first apply an account from this free Web server <u>http://www.dyndns.org/</u>. There are more than 5 DDNS servers supported.
- Virtual Private Network (VPN): Allows a user to make a tunnel with a remote site directly to secure the data transmission among the connection. Users can use embedded PPTP client/server supported by this router to make a VPN tunnel or the user can run the PPTP client in PC and the router already provides IPSec and PPTP pass through function to establish a VPN connection if the user likes to run the PPTP client in his local computer.
- **PPP over Ethernet (PPPoE):** Provide embedded PPPoE client function to establish a connection. Users can get greater access speed without changing the operation concept, sharing the same ISP account and paying for one access account. No PPPoE client software is required for the local computer. The Always ON, Dial On Demand and auto disconnection (Idle Timer) functions are provided too.
- Virtual Server: Users can specify some services to be visible from outside users. The router can detect incoming service request and forward it to the specific local computer to handle it. For example, users can assign a PC in a LAN acting as a WEB server inside and expose it to the outside network. Outside users can browse an inside web server directly while it is protected by NAT. A DMZ host setting is also provided to a local computer exposed to the outside network, Internet
- **Rich Packet Filtering:** Not only filters the packet based on IP address, but also based on Port numbers. It also provides a higher-level security control.
- **Dynamic Host Control Protocol (DHCP) client and server:** In the WAN site, the DHCP client can get an IP address from the Internet Server Provider (ISP) automatically. In the LAN



site, the DHCP server can allocate up to 253 client IP addresses and distribute them including IP address, subnet mask as well as DNS IP address to local computers. It provides an easy way to manage the local IP network.

- Static and RIP1/2 Routing: Supports an easy static table or RIP1/2 routing protocol to support routing capability.
- SNTP: An easy way to get the network real time information from an SNTP server.
- Web based GUI: supports web based GUI for configuration and management. It is userfriendly with an on-line help, providing necessary information and assist user timing. It also supports remote management capability for remote users to configure and manage this product.
- **Firmware Upgradeable:** the device can be upgraded to the latest firmware through the WEB based GUI.
- **Rich management interfaces:** Supports flexible management interfaces with local console port, LAN port, and WAN port. Users can use terminal application through console port to configure and manage the device, or Telnet, WEB GUI, and SNMP through LAN or WAN ports to configure and manage a device.



1.4 I-Fly Wireless Router ADSL Application





Chapter 2 Using Wireless ADSL Router

2.1 Cautions for using the I-Fly Wireless Router ADSL



Do not place the ADSL Wireless Router under high humidity and high temperature. Do not use the same power source for ADSL Wireless Router with other equipment. Do not open or repair the case yourself. If the ADSL Wireless Router is too hot, turn off the power immediately and have a qualified serviceman repair it. Place the ADSL Wireless Router on a stable surface.



Only use the power adapter that comes with the package.

Do NOT upgrade firmware on any Atlantis Land product over a wireless connection. Failure of the device may result. Use only hard-wired network connections.

2.2 The Front LEDs



	LED	Meaning
1	Power	Lit when power ON
2	Sys	Lit when system is ready
3-6	Lan	Lit when connected to Ethernet device Green for 100Mbps; Orange for 10Mbps Blinking when data transmit/received
7	WLan	Lit green when the wireless connection is established. Flashes when sending/receiving data.
10	Mail	Blinking when there is email in the email account
11	РРР	Lit when there is a PPPoA/PPPoE connection
13	ADSL	Lit when successfully connected to an ADSL DSLAM



2.3 The Rear Ports



	PORT	MEANING
1	LINE	Connect the supplied RJ-11 cable to this port when connecting to the ADSL/telephone network.
2	PS2(Console)	Connect a RS-232 cable to this port when connecting to a PC's RS-232 port (9-pin serial port).
3	LAN 4X (RJ-45 connector)	Connect an UTP Ethernet cable to one of the four LAN ports when connecting to a PC or an office/home network of 10Mbps or 100Mbps.
4	Reset	After the device has turned on, press it to reset the device or restore to factory default settings. The operation is as below: 0-3 seconds: reset the device 3-6 seconds: no action
		6 seconds or above : restore to factory default settings (this is used when you can not login to the router, e.g. forgot the password)
5	PWR	Connect the supplied power adapter to this jack.
6	Power Switch	A Power ON/OFF switch

2.4 Cabling

The most common problem is bad cabling or ADSL line. Make sure that all connected devices are turned on. On the front of the product is a bank of LEDs. As a first check, verify that the LAN Link and ADSL line LEDs are lit. If they are not, verify that you are using the proper cables.





Chapter 3 Configuration

The ADSL Wireless Router can be configured with your Web browser. The web browser is included as a standard application in the following operation systems, UNIX, Linux, Mac OS, Windows 95/98/NT/2000/Me, and etc. The product provides a very easy and user-friendly interface for configuration.

3.1 Before Configuration

This section describes the configuration required by LAN-attached PCs that communicate with the ADSL Wireless Router, either to configure the device or for network access. These PCs must have an Ethernet interface (or wireless adapter) installed properly, be connected to the ADSL Wireless Router either directly or through an external repeater hub, and have TCP/IP installed and configured to obtain an IP address through a DHCP server or a fixed IP address that must be in the same subnet of the ADSL Firewall Router. The default IP address of the ADSL Wireless Router is 192.168.1.254 and subnet mask is 255.255.255.0. The best and easy way is to configure the PC to get an IP address from the ADSL Wireless Router. Also make sure you have UNINSTALLED any kind of software firewall that can cause problems while accessing the 192.168.1.254 IP address of the router.

Please follow the steps below for PC's network environment installation. First of all, please check your PC's network components. The TCP/IP protocol stack and Ethernet network adapter must be installed. If not, please refer to MS Windows related manuals.



Any TCP/IP capable workstation can be used to communicate with or through the ADSL Wireless Router. To configure other types of workstations, please consult the manufacturer's documentation.

3.2 Connecting the I-Fly Wireless Router ADSL

- Connect the Router to a LAN (Local Area Network) and the ADSL/telephone network.
- Power on the device
- Make sure the PWR and SYS LEDs are lit steady & LAN/WLAN LED is lit.
- Before taking the next step, make sure you have uninstalled any software firewall.



3.3 Configuring PC in Windows

For Windows 95/98/ME

- 1. Go to Start / Settings / Control Panel. In the Control Panel, double-click on Network and choose the Configuration tab.
- 2. Select TCP / IP -> NE2000 Compatible, or the name of any Network Interface Card (NIC) in your PC.
- 3. Click Properties.

Network
Configuration Identification Access Control
KetRELIL > DiakUp Adapter
VetBEUL -> NE2000 Compatible
TCP/IP -> Dial-Up Adapter
TCP/IP -> NE2000 Compatible
File and printer sharing for Microsoft Networks
Add Remove Properties
Primary Network Logon:
Client for Microsoft Networks
<u>File and Print Sharing</u>
Description TCP/IP is the protocol you use to connect to the Internet and wide-area networks.
OK Cancel

4. Select the IP Address tab. In this page, click the Obtain an IP address automatically radio button.



СРЛР	Properties				?	12
B	lindings	Adv	anced		NetBIOS	-
DNSIC	Configuration	Gateway	WINSU	Configuratio		SS
An II If yo your the s	^D address can ur network doe network admir space below.	be automal :s not autor nistrator for	ically assi natically a an addres	gned to thi ssign IP ad s, and ther	s computer. Idresses, ask h type it in	
> °	<u>O</u> btain an IP a <u>S</u> pecify an IP	address au address:—	omatically			
	[P Address:					
	S <u>u</u> bnet Mask	c		·		

- 5. Then select the DNS Configuration tab.
- 6. Select the **Disable DNS** radio button and click "**OK**" to finish the configuration.

TCP/IP Properties
Bindings Advanced NetBIOS ONS Configuration Gateway WINS Configuration IP Address
© Disable DNS
Host:
DNS Server Search Order
<u>R</u> emove
Domain Suffix Search Order
Remove
OK Cancel





For Windows NT4.0

- 1. Go to Start / Settings / Control Panel. In the Control Panel, double-click on Network and choose the Protocols tab.
- 2. Select TCP/IP Protocol and click Properties.

twork	vices Protoc	ols Adapters Bind	ings
Network Protoco	ls:	10 - X2	
จักetBEUI Pro จักษไเก่ห IP× จักษไเก่ห Net จั <mark>กษศาย Prot</mark>	otocol VSPX Compatil BIOS ocol	ole Transport	
<u>A</u> dd	<u>R</u> emove	Properties	<u>U</u> pdate
Description: Transport Cont area network p diverse intercol	rol Protocol/Int rotocol that pro nnected netwo	ernet Protocol. The d vides communication rks.	efault wide across
		ОК	Cancel

3. Select the Obtain an IP address from a DHCP server radio button and click "OK".



	roperties			
Address DNS	WINS Addre	ss Routir	ig	
An IP address can by a DHCP server ask your network a the space below.) be automatica . If your netwo administrator fo	ally assigne rk does no r an addres	d to this t have a ss, and th	network caro DHCP serve nen type it in
Ada <u>p</u> ter:				
(your network ad	apter)			
(your network ad	apter)	5.1105		Ľ
(your network ad ↓ _ <u>O</u> btain an IF _ ○ Specify an I	apter) ^D address from Paddress —	a DHCP se	erver	
Crour network ad ↓ ○ Obtain an IF - ○ Specify an I IP Address:	apter) ^o address from P address	a DHCP se	erver	J
Crour network ad <u>O</u> btain an IF <u>Specify an I</u> IP Address: Subnet Mask:	apter) ^o address from P address	a DHCP se		

For Windows 2000

- 1. Go to Start / Settings / Control Panel. In the Control Panel, double-click on Network and Dial-up Connections.
- 2. Double-click LAN Area Connection.



3. In the LAN Area Connection Status window, click Properties.

Status:	Connected
Duration:	05:54:27
Speed:	10.0 Mbps
Packets:	Sent — En Received 300 138
\frown	

4. Select Internet Protocol (TCP/IP) and click Properties.

Local Area Connection 2 Properties
General Sharing
Connect using:
Bealtek RTL8139(A) PCI Fast Ethernet Adapter
Configure
Components checked are used by this connection:
NWLink IPX/SPX/NetBIOS Compatible Transport Proto NetBEUI Protocol Thermet Protocol Thermet Protocol (TCP/IP)
Install Uninstall Properties
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.
Sho <u>w</u> icon in taskbar when connected
OK Cancel

- 5. Select the Obtain an IP address automatically and the Obtain DNS server address automatically radio buttons.
- 6. Click "OK" to finish the configuration.



Obtain an IP address automatically Use the following IP address: IP address:	
Use the following IP address: IP address:	
IP address:	
Sybnet mask:	
Default gateway:	
Obtain DNS server address automatically Use the following DNS server addresses: Ereferred DNS server:	_
Alternate DNS server:	

For Windows XP

- 1. Go to Start / Control Panel (in Classic View). In the Control Panel, double-click on Network Connections.
- 2. Double-click Local Area Connection



3. In the LAN Area Connection Status window, click Properties.

Connection		
Status:		Connected
Duration:		00:05:34
Speed:		100.0 Mbps
Activity	Sent — 🛐	
Bytes:	1,403	1,749
Properties	Disable	

4. Select Internet Protocol (TCP/IP) and click Properties.

占 Local	Area Connec	tion Prope	erties		? ×
General	Authentication	Advanced			
Conne	at using:				
	D-Link DFE-530T	× PCI Fast E	thernet Adap	oter (rev.B)	
]	Configure	±]
This co	nnection uses th	e following ite	ems:		
	QoS Packet So	oneduler ol (TCP/IP)			
Desc	ristall	Uninsta		Properties	
Tran wide acro	ismission Control I area network pro ss diverse interco	Protocol/Inte otocol that pr onnected net	rnet Protoco ovides comm works.	I. The defau	lt
C Sho	w icon in notifica	tion area whe	en connecte	d	
			ОК	Ca	ancel

- 5. Select the Obtain an IP address automatically and the Obtain DNS server address automatically radio buttons
- 6. Click "OK" to finish the configuration.



ternet Protocol (TCP/IP) P	roperties 🤗
General Alternate Configuration	
You can get IP settings assigned this capability. Otherwise, you ne the appropriate IP settings.	automatically if your network supports ed to ask your network administrator for
Obtain an IP address autor	natically
OUse the following IP addres	s:
IP address:	
Subnet mask:	
Default gateway:	
Contain DNS server address	automatically
OUse the following DNS serv	er addresses:
Preferred DNS server:	
Alternate DNS server:	
	Advanced
	OK Cancel

3.4 Factory Default Settings

Before configurating this ADSL Wireless Router, you need to know the following default settings.

- Username: admin
- Password : atlantis
- IP Address : 192.168.1.254
- Subnet Mask : 255.255.255.0
- DHCP server is enabled.
- Wireless: SSSID= wlan-ap, Channel=6, WEP=disable

3.4.1 Username and Password

The default username and password are admin and atlantis respectively.



If you ever forget the password to log in, you may press the RESET button to restore the factory default settings..

3.4.2 LAN and WAN Port Addresses

The parameters of LAN and WAN ports are pre-set in the factory. The default values are shown below.



LAN Port		WAN Port
IP address	192.168.1.254	N/A
Subnet Mask	255.255.255.0	
DHCP server function	Enabled	

3.5 Information from the ISP

Before configuring this device, you have to check with your ISP (Internet Service Provider) what kind of service is provided such as PPPoE, PPPoA, RFC1483, IPoA, or PPTP-to-PPPoA Relaying.

Gather the information as illustrated in the following table and keep it for reference.

РРРоЕ	VPI/VCI, VC-based/LLC-based multiplexing, Username, Password, Service Name, and Domain Name System (DNS) IP address (it can be automatically assigned from ISP or be set fixed).		
РРРоА	VPI/VCI, VC-based/LLC-based multiplexing, Username, Password, and Domain Name System (DNS) IP address (it can be automatically assigned from ISP or be set fixed).		
RFC1483 Bridged	VPI/VCI, VC-based/LLC-based multiplexing and configure this product into BRIDGE Mode.		
RFC1483 Routed	VPI/VCI, VC-based/LLC-based multiplexing, IP address, Subnet mask, Gateway address, and Domain Name System (DNS) IP address (it is fixed IP address).		
ІРоА	VPI/VCI, IP address, Subnet mask, Gateway address, and Domain Name System (DNS) IP address (it is fixed IP address).		

3.6 Configuring with the Web Browser

Open the web browser, enter the local port IP address of this ADSL Wireless Router, which defaults at http://192.168.1.254, and click "Go", a username and password window will appear. The default username & password are admin & atlantis, in respectively

Enter Net	work Passw	ord	<u>?×</u>
? >	Please type y	our user name and password.	
3	Site:	192.168.1.254	
	Realm		
	<u>U</u> ser Name		
	Password		
	□ <u>S</u> ave this	password in your password list	
		DK Can	cel



You will get a status report web page when login successfully.

ATLANTIS	I-Fly Wireless F	Router ADSL				
AND						
Status	Status					
Quick Start	Device Information	Device Information				
Configuration	Model Name	ADSL Modem/Ro	ADSL Modem/Router			
Save Config to FLASH	Host Name 💽	home.gateway				
Language	System Up-Time	00:01:53s				
	Current Time 💿	Thu, 01 Jan 1970	- 02:01:38	Sync Now		
	Hardware Version	He500/He400 ADS	SL-AVVG v1.00			
	Software Version	4.54c				
	MAC Address	00:04:ED:11:23:1E				
	Home URL	Atlantis Land S.p.A.				
	LAN					
	IP Address 🔘	192.168.1.254				
	SubNetmask	255.255.255.0				
	DHCP Server 🕥	Enabled				
	WAN					
	Primary DNS 🕥	None				
	Port Status	Port Status				
	Port	Ethernet 🔘	ADSL 🕥	Wireless 🔿		
	Connected	\checkmark	×	~		
	Statistics					
	Ethernet o		Rx : 0/ 0			
				SAVE CONFIG	RESTART	LOGOUT

At the configuration homepage, the left navigation page where bookmarks are provided links you directly to the desired setup page, including:

- Status (ARP Table, Routing Table, DHCP Table, PPTP Status, Email Status, Event Log & Error Log)
- Quick Start
- Configuration (LAN, WAN, System, Firewall, VPN, QoS, Virtual Server & Advanced)
- Save Config to FLASH
- Language (provides user interface in multi-languages).

Click on the desired item to expand the page in the main navigation page.

3.6.1 STATUS

Status section provides and contains many items including device H/W and S/W information, LAN, WAN, Port status and all defined interfaces. It also provides various and useful information for user to exam the status of the device.

- ARP Table
- Wireless Association
- Routing Table
- DHCP Table
- PPTP Status



- IPSec Status
- L2TP
- Email Status
- Event Log
- Error Log
- NAT Sessions
- UPnP PortMap

A	I-Ely Wireless Rou	ter ADSI	
AND	in ty micress rou		
Status	Status		
ARP Table	Device Information		
	Model Name	ADSL Modem/Router	
	Host Name 🔘	home.gateway	
	System Up-Time	00:22:28s	
	Current Time O	Thu, 01 Jan 1970 - 02:22:03	Sync Now
	Hardware Version	He500/He400 ADSL-A/WG v1.00	
	Software Version	4.54c	
	MAC Address	00:04:ED:11:23:1E	
	Home URL	Atlantis Land S.p.A.	
	LAN		
NAT Sessions	IP Address O	192.168.1.236	
	SubNetmask	255.255.255.0	
Quick Start	DHCP Server O	Enabled	
Configuration	WAN		
Save Config to FLASH	ipwan 🕥		
Language	VPL/VCI	8 / 35	
	PPP Connection	Cable disconnected	
	IP Address	0.0.0.0	
	SubNetmask	255.0.0.0	
		SAVE CONFIG	RESTART

When you click the **ARP Table**, you will see the data of the IP address of each PC in your LAN as well as its associated MAC address.

When you click the **DHCP Table**, you can see the status of the assigned IP addresses with its associated information.

When you click the **PPTP Status**, it gives you a quick view to know the ADSL Router's current status. The status of PPTP connection will be shown.

When you click the **Email Status**, it gives you a quick view to know if there is email in your predefined email account. You will see the unread emails in the email server and, once you have configured successfully the "Check Emails" in **Configuration** \rightarrow **Advance**.

When you click the **Event Log**, it displays the valuable system event logging information and status after the power is turned on, such as ADSL line, WAN port, SNTP, Firewall, and etc.

When you click the **Error Log**, it shows the error message log. When you face a problem, please send this error log to support for a quick feedback.



3.6.2 Quick Start

Quick Start		
Connection		
Encapsulation	PPP ₀ A	🖌 🖌 Auto Scan
VPI	8	
VCI	35	
NAT	⊙Enable ODi	sable
Optional Settings		
IP Address	(D.0.0.0' means '	Obtain an IP address automatically')
SubNetmask		
Default Gateway		
DNS		
Primary DNS		
Secondary DNS		
PPP		
Username		
Password		
Apply Cancel		

If you use this device to access the Internet through the ISP, this web page is enough for you to configure this router and access the Internet without a problem. Please check Chapter 3.5 (*Information from the ISP*), then enter the proper values into this web page, click the **Apply** button and then **Save Config to FLASH** in the left panel. After the router reboot, you may check the Status web page to check whether the router is connected to the ISP or not. In most cases, you can access the Internet immediately. If not, please refer to the sections below for more information.

3.6.3 Configuration

When you click this item, you get following sub-items to configure the ADSL router. LAN, WAN, System, Firewall, VPN, QoS, Virtual Server and Advanced These functions are described below in the following sections.

3.6.3.1 LAN

There are four items within the LAN section: Ethernet, Wireless, Wireless Security, Port Setting and DHCP Server.



3.6.3.1.1 Ethernet

When you click **Ethernet**, you get the following picture below.

Primary IP Address		10.00	1910		
IP Address	192	168	. 1	. 254	
SubNetmask	255	255	255	. 0	
RIP		• v1 🗌 R	IP v2	RIP v2 M	lulticast
Secondary IP Address					
The Secondary IP Address same Subnet Mask.	should be on the	same subn	et as the l	Primary IP	Address and uses the
ID Addroop	0	0	0	. 0	

It supports two Ethernet IP addresses in the LAN. With this function, the ADSL Wireless router can support two different IP. Usually, there is only one subnet in LAN and no need to configure a Secondary IP address. The 192.168.1.254 is the default IP address for this ADSL Wireless router. RIP: RIP v1, RIP v2, and RIP v2 Multicast. Check to enable RIP function.

3.6.3.1.2 Wireless

Wireless	
Parameters	
WLAN Service	⊙ Enable O Disable
Mode	802.11b + g 💌
Nitro Mode	⊙ Enable O Disable
ESSID	wlan-ap
ESSID Broadcast	⊙ Enable O Disable
Regulation Domain	Europe 💌
Channel ID	Channel 6 (2.437 GHz)
Reset	false 💌
Connected	true
AP Firmware Version	1.2.1.0

WLAN Service: Default setting is set to Enable.

- **Mode:** The factory default is 802.11b + g.
 - 802.11b + g (Mixed mode)
 - 802.11b
 - 802.11g

Nitro Mode: Default is enabled for increasing performance in mixed 802.11b and 802.11g wireless networks.



ESSID: Enter the unique ID given to the Access Point (AP), which is already built-in to the router's wireless interface. To connect to this device, your wireless clients must have the same ESSID as the device.

ESSID Broadcast:

- **Disable:** Any client that using the "any" setting cannot discover the Access Point (AP) in question.
- Enable: Any client that using the "any" setting can discover the Access Point (AP) in question.

Regulation Domain: There are five Regulation Domains for you to choose from, including North America (N.America), Europe, France, etc. The Channel ID will be different based on this setting. Channel ID: Select the ID channel that you would like to use.

Reset: Reset the Access Point (AP), which is already built-in to the router's wireless interface.

Connected: true or false. That it is the connection status between the system and the build-in wireless card.

AP Firmware Version: The Access Point firmware version.

3.8.2.1.3 Wireless Security

You can disable or enable with WPA or WEP for protecting wireless network. The default mode of wireless security is disabled.

Wireless Security			
Parameters			
Security Mode	Disable	¥	
	Disable		
Apply Cancel	WPA Pre-Shared WEP	Кеу	

• WEP

Parameters	
Security Mode	WEP
WEP Encryption	OWEP64 ⊙WEP128 Hex 👻
Passphrase	Generate
Default Used WEP Key	0 (0~3)
Кеу О	10-B3-19-A9-0F-76-3B-10-76-0C-65-D9-B9
Key 1	10-B3-19-A9-0F-76-3B-10-76-0C-65-D9-B9
Key 2	10-B3-19-A9-0F-76-3B-10-76-0C-65-D9-B9
Кеу З	10-B3-19-A9-0F-76-3B-10-76-0C-65-D9-B9

WEP Encryption: To prevent unauthorized wireless stations from accessing data transmitted over the network, the router offers highly secure data encryption, known as WEP. If you require high security for transmissions, there are two alternatives to select from: WEP 64 and WEP 128. WEP 128 will offer increased security over WEP 64.

Passphrase: This is used to generate WEP keys automatically based upon the input string and a pre-defined algorithm in WEP64 or WEP128. You can input the same string in both the AP



and Client card settings to generate the same WEP keys. Please note that you do not have to enter Key (0-3) as below when the Passphrase is enabled.

Default Used WEP Key: Select the encryption key ID, please refer to Key (0-3) below.

Key (0-3): Enter the key to encrypt wireless data. To allow encrypted data transmission, the WEP Encryption Key values on all wireless stations must be the same as the router.

There are four keys for your selection. The input format is in HEX [0,1,2,3,4,5,6,7,8,9,A,B,C,D,E,F] style, 5 and 13 HEX codes are required for WEP64 and WEP128 respectively, the separator is "-".

• WPA Pre Shared Key

Parameters			
Security Mode	WPA Pre-Shared K		
WPA Algorithms	TKIP		
WPA Shared Key			
Group Key Renewal	600	seconds	

WPA Algorithms: TKIP (Temporal Key Integrity Protocol) utilizes a stronger encryption method and incorporates Message Integrity Code (**MIC**) to provide protection against hackers. **WPA Shared Key:** The key for network authentication. The input format is in character style and key size should be in the range between 8 and 63 characters.

Group Key Renewal: The period of renewal time for changing the security key automatically between wireless client and Access Point (AP).

3.6.3.1.4 Port Settings

This section allows you to configure the settings for the router's Ethernet ports to solve some of the compatibility problems that may be encountered while connecting to the Internet, as well allowing users to tweak the performance of their network.

Parameters			
Port1 Connection Type	Auto	*	
Port2 Connection Type	Auto	*	
Port3 Connection Type	Auto	*	
Port4 Connection Type	Auto	~	
IPv4 TOS Priority Control	O Enable	💿 Disable	
Set High Priority TOS	7 6	5 4	3 2 2 1 0 0

Port # Connection Type: Five options to choose from: Auto, 10M half-duplex, 10M fullduplex, 100M half-duplex or 100M full-duplex. Sometimes, there are Ethernet compatibility problems with legacy Ethernet devices, and you can configure different types to solve compatibility issues. The



default is Auto, which users should keep unless there are specific problems with PCs not being able to access your LAN.

IPv4 TOS priority Control (Advanced users): TOS, Type of Services, is the 2nd octet of an IP packet. Bits 6-7 of this octet are reserved and bit 0-2 are used to specify the priority (precedence) of the packet, and bits 3-5 are specified the delay, throughput and reliability.

This feature uses bits 0-2 to classify the packet's priority. If the packet is high priority, it will flow first. Therefore, when this feature is enabled, the router's Ethernet switch will check the 2nd octet of each IP packet. If the value in the Precedence of TOS field matches the checked values in the table (0 to 7), this packet will be treated as high priority.

3.6.3.1.5 DHCP

When you click **DHCP Server**, you will get the following figure. You can disable or enable the DHCP server or enable the DHCP relay functions.

DHCP Server	
Configuration	
	O Disable
DHCP Server Mode	O DHCP Server
	O DHCP Relay Agent
Next	

If you check **Disabled** and click **Next**, then click **Apply**. The DHCP server function is disabled. Each PC in the LAN should assign a fixed IP address and set the PC's gateway to the ADSL Router.

If you check **DHCP Server** and click **Next**, you can configure parameters of the DHCP server including the IP pool (starting IP address and ending IP address), leased time for each assigned IP address, DNS IP address, and Gateway IP address. Those messages are sent to the DHCP client when it requests an IP address from the DHCP server. Click **Apply** to enable this function. If you check "Use Router as a DNS Server", the ADSL Router will find the IP address from the outside network automatically and forward it back to requesting PC in the LAN.

If you check **DHCP Relay Agent** and click **Next**, then you will have to enter the IP address of the DHCP server, which will assign an IP address back to the DHCP client in the LAN. Click **Apply** to enable this function.

DHCP Server

• **Disable:** Check to disable the ADSL Firewall Router from distributing IP Addresses to the local network.

If you check this selection, remember to specify a static IP address, subnet Mask, and DNS setting for each of your local computers. Be careful NOT to assign the same IP address to different computers.

• **DHCP Server:** Check to enable the ADSL Firewall Router to distribute IP Addresses, subnet mask and DNS setting to computers. Hence, the following fields will be activated.

Starting IP Address: Enter the starting address of this local IP network address pool. The pool is a piece of continuous IP address segment. The default value is **192.168.1.100**.

Ending IP Address: Enter the ending address of this local IP network address pool. The pool is a piece of continuous IP address segment. The default value is **192.168.1.199**

Defaul Lease Time: Value that expresses in second the validity time of assigned address.

Maximum Lease Time: Value that expresses in second the maximum validity time of assigned address.

Use Router as DNS Server: Each DNS request will be received by router and forwarder to DNS Server



Primary/Secondary DNS Server Address: Insert here remote DSN server addresses, it will be forwarded to LAN hosts by DHCP server.

Use Router as Default Gateway: Specify here which address will be used by LAN hosts as Default Gateway

DHCP Relay: Selecting this option the DHCP request performed by LAN host will by delivered by a remote DHCP server passing through ADSL Firewal Router.

3.6.3.2 WAN

There are two items under the WAN section, ISP, DNS and ADSL.

3.6.3.2.1 ISP

Check one of the access methods among the 5 listed items and clicks **Next** to configure the right connection method.

When you click ISP, you will get the following screen.

Please se	lect the type of service you wish	to create	
	⊙ RFC 1483 Routed	ORFC 1483 Bridged	
ATM	OPPPoA Routed	O IPoA Routed	
	OPPPoE Routed	Quick Start 🕥	

The factory default is PPPoE mode. If your ISP uses the same access protocol, please click **Edit** to input other parameters as below. If your ISP does not use PPPoE mode, you can delete it, click **Delete**. Then you may click **Create** to create a connection to your ISP to surf the Internet. Refer to the figure after the PPPoE mode description below.



• PPPoA

WAN Connection	
PPPoA Routed	
Description	PPPoA Routed
VPI	8
VCI	35
ATM Class	UBR
NAT	⊙ Enable ◯ Disable
Username	
Password	
IP Address	('0.0.0.0' means 'Obtain an IP address automatically')
Authentication Protocol	Chap(Auto) 💌
Connection	Always On 👻
Idle Timeout	0 minutes
RIP	RIP v1 RIP v2 RIP v2 Multicast
MTU	1500

Description: User-definable name for the connection.

VPI/VCI: Enter the information provided by your ISP.

ATM Class: The Quality of Service for ATM layer.

NAT: The NAT (Network Address Translation) feature allows multiple users to access the Internet through a single IP account, sharing a single IP address. If users on your LAN have public IP addresses and can access the Internet directly, the NAT function can be disabled.

Username: Enter the username provided by your ISP. You can input up to 128 alphanumeric characters (case sensitive). This will usually be in the format of "username@ispname" instead of simply "username".

Password: Enter the password provided by your ISP. You can input up to 128 alphanumeric characters (case sensitive).

IP Address: Specify an IP address allowed to logon and access the router's web server.

Note: IP 0.0.0.0 indicates all users who are connected to this router are allowed to logon the device and modify data.

Authentication Protocol Type: Default is Chap (Auto). Your ISP will advise you whether to use Chap or Pap.

Always on: If you want the router to establish a PPPoA session when starting up and to automatically re-establish the PPPoA session when disconnected by the ISP.

Connect to Demand: If you want to establish a PPPoA session only when there is a packet requesting access to the Internet (i.e. when a program on your computer attempts to access the Internet).

Idle Timeout: Auto-disconnect the broadband firewall gateway when there is no activity on the line for a predetermined period of time.

Detail: You can define the destination port and packet type (TCP/UDP) without checking by timer. It allows you to set which outgoing traffic will not trigger and reset the idle timer.



RIP: RIP v1, RIP v2, and RIP v2 Multicast. Check to enable RIP function.

MTU: Maximum Transmission Unit. The size of the largest datagram (excluding mediaspecific headers) that IP will attempt to send through the interface.

VAN Connection	
PPoE Routed	
Description	PPPoE Routed
VPI	8
VCI	35
ATM Class	UBR 💌
NAT	⊙Enable ○Disable
Username	
Password	
Service Name	
IP Address	(D.O.O.O' means 'Obtain an IP address automatically')
Authentication Protocol	Chap(Auto) 💌
Connection	Always On 💌
Idle Timeout	0 minutes
RIP	🗌 RIP v1 🔲 RIP v2 🔲 RIP v2 Multicast
MTU	1492

Apply

Description: User-definable name for the connection.

VPI/VCI: Enter the information provided by your ISP.

ATM Class: The Quality of Service for ATM layer.

NAT: The NAT (Network Address Translation) feature allows multiple users to access the Internet through a single IP account, sharing a single IP address. If users on your LAN have public IP addresses and can access the Internet directly, the NAT function can be disabled.

Username: Enter the username provided by your ISP. You can input up to 128 alphanumeric characters (case sensitive). This will usually be in the format of "username@ispname" instead of simply "username".

Password: Enter the password provided by your ISP. You can input up to 128 alphanumeric characters (case sensitive).

Service Name: This item is for identification purposes. If it is required, your ISP will provide you the information. Maximum input is 20 alphanumeric characters.

IP Address: Specify an IP address allowed to logon and access the router's web server.

Note: IP 0.0.0.0 indicates all users who are connected to this router are allowed to logon the device and modify data.

Authentication Protocol Type: Default is Chap (Auto). Your ISP will advise you whether to use Chap or Pap.



Always on: If you want the router to establish a PPPoE session when starting up and to automatically re-establish the PPPoA session when disconnected by the ISP.

Connect to Demand: If you want to establish a PPPoE session only when there is a packet requesting access to the Internet (i.e. when a program on your computer attempts to access the Internet).

Idle Timeout: Auto-disconnect the broadband firewall gateway when there is no activity on the line for a predetermined period of time.

Detail: You can define the destination port and packet type (TCP/UDP) without checking by timer. It allows you to set which outgoing traffic will not trigger and reset the idle timer.

RIP: RIP v1, RIP v2, and RIP v2 Multicast. Check to enable RIP function.

MTU: Maximum Transmission Unit. The size of the largest datagram (excluding mediaspecific headers) that IP will attempt to send through the interface.

RFC 1483 Bridge .

WAN Connection

RF	С	1483	Bridged	
	-		Diragoa	

RFC 1483 Bridged	
Description	RFC 1483 bridged mode
VPI	8
VCI	35
ATM Class	UBR 💌
Encapsulation Method	LLC Bridged 💌
Ether Filter Type	All 💌
Spanning Bridge Interface	⊙ Enable ◯ Disable

Apply

VPI and VCI: Enter the information provided by your ISP.

ATM Class: The Quality of Service for ATM layer.

Encapsulation method: Select the encapsulation format, this is provided by your ISP.

Ether Filter Type: Specify the type of ethernet filtering performed by the named bridge interface.

Spanning Bridge Interface: Enable/Disable spanning tree function of modem. **Ether Filter Type:**

ALL	Allows all types of ethernet packets through the port.	
IP	Allows only IP/ARP types of ethernet packets through the port.	
PPPoE	Allows only PPPoE types of ethernet packets through the port.	



• RFC 1483 Routed/RFC1 1577(IPoA)

WAN Connection	
RFC 1483 Routed	
Description	RFC 1483 routed mode
VPI	8
VCI	35
ATM Class	UBR
NAT	• Enable O Disable
Encapsulation Method	LLC Routed
	Obtain an IP address automatically via DHCP client
	OUse the following IP address
IP Assignment	IP Address
	Netmask
	Gateway
RIP	RIP v1 RIP v2 RIP v2 Multicast
MTU	1500
Apply	

Description: Your description of this connection.

VPI and VCI: Enter the information provided by your ISP.

ATM Class: The Quality of Service for ATM layer.

NAT: The NAT (Network Address Translation) feature allows multiple users to access the Internet through a single IP account, sharing the single IP address. If users on your LAN have public IP addresses and can access the Internet directly, the NAT function can be disabled.

Encapsulation method (only for RFC 1483 Routed) : Select the encapsulation format, the default is LlcBridged. Select the one provided by your ISP.

LLC Bridged VcMux Bridged LLC Routed VcMux Routed LLC MER

DHCP client: Enable or disable the DHCP client, specify if the Router can get an IP address from the Internet Service Provider (ISP) automatically or not. Please click **Obtain an IP address automatically via DHCP client** to enable the DHCP client function or click

Specify an IP address to disable the DHCP client function, and specify the IP address manually. The setting of this item is specified by your ISP.

RIP: RIP v1, RIP v2, and RIP v2 Multicast. Check to enable RIP function.

MTU: Maximum Transmission Unit. The size of the largest datagram (excluding mediaspecific headers) that IP will attempt to send through the interface.



3.6.3.2.2 DNS

A Domain Name System (DNS) contains a mapping table for domain name and IP addresses. In the Internet, every host has a unique and friendly name such as <u>www.yahoo.com</u> and an IP address. As the IP Address is hard to remember, the DNS converts the friendly name into its equivalent IP Address. You can obtain a Domain Name System (DNS) IP address automatically, if your ISP provides it when you logon. Usually when you choose PPPoE or PPPoA as your WAN - ISP protocol, the ISP will provide the DNS IP address automatically. You may leave it as blank. Or your ISP may provide you with an IP address of their DNS. If this is the case, you must enter the DNS IP address.

3.6.3.2.3 ADSL

Parameters			
Connect Mode	Multimode 💌		
Activate Line	true 💌		
Tx Attenuation	0		
DSP FirmwareVersion	A.27.4.7		
Connected	false		
Operational Mode	Inactive		
Annex Type	AnnexA		
Upstream	0		
Downstream	0		

Connect Mode: The default is Multimode; it will detect the ADSL line code, G.dmt, G.lite, and T1.413 automatically. But in some area, it cannot detect the ADSL line code well. At this time, please adjust the ADSL line code to G.dmt or T1.413 first. If it still fails, please try the other values such as ALCTL, ADI, etc.

Activate Line: Aborting (false) your ADSL line and making it active (true) again for taking effect with setting of Connect Mode.

Tx Attenuation: Setting ADSL transmission gain, the value is between 0~12.

DSP FirmwareVersion: Current ADSL line code firmware version.

Connected: Display current ADSL line sync status.

Operational Mode: Display current ADSL mode standard (Operational Mode) your Router is using when ADSL line has sync.

Annex Type: ADSL Annex A, which works over a standard telephone line. Annex B, which works over an ISDN line.

Upstream: Display current upstream rate of your ADSL line.

Downstream: Display current downstream rate of your ADSL line.

3.6.3.3 System

There are six items under the SYSTEM section, Time Zone, Remote Access, Firmware Upgrade, Backup/Restore, Restart Router & User Management.


3.6.3.3.1 Time Zone

When you click Time Zone, you get the following figure.

Time Zone									
Parameters									
Time Zone O Enable O Disable									
Time Zone List	⊙ By City OBy Time Difference								
Local Time Zone (+-GMT Time)	(GMT+01:00)Amsterdam, Berlin, Bern, Rome, Stockholm, Vienna								
CNITD Convex ID Address	140.162.8.3	192.43.244.18							
SINTP Server IP Address	128.138.140.44	129.6.15.29							
Daylight Saving	Automatic								
Resync Period	1	minutes Sync Now							
Apply Cancel									

The router does not have a real time clock on board; instead, it uses the simple network time protocol (SNTP) to get the current time from the SNTP server from the outside network. Please choose your local time zone, click **Enable**, **choose either By City or By Time Difference setting** and click the Apply button. You will get the correct time information after you really establish a connection to the Internet. If you prefer to enter your own SNTP server, please enter and use it as the first choice.

3.6.3.3.2 Remote Access

When you click **Remote Access** and then click **Enable**, you may temporarily permit remote administration of the ADSL Firewall Router.

Remote Access									
You may temporarily permit remote administration of this network device									
Allow Access for	30	minutes.							
Enable									



3.6.3.3.3 Firmware Upgrade

You may upgrade the system software on your network device									
New Firmware Image	Sfoglia								

When you click **Firmware Upgrade**, it allows you to input the location of firmware stored on your PC and click the Upgrade button to upgrade to the new firmware.



Do NOT upgrade firmware on any Atlantis Land product over a wireless connection.

Failure of the device may result. Use only hard-wired network connections.

3.6.3.3.4 Backup / Restore

When you click **Backup/Restore**, it allows you to save your current settings into a file on your PC. If you like to restore it back (input the location of this configuration file in the PC and click the **Restore** button to save it back).

Backup/Restore	
Allows you to backup the or restore configuration fro	configuration settings to your computer, m your computer.
Backup Configuration	
Backup configuration to your	computer.
Backup	
Restore Configuration	
Configuration File	Sfoglia
"Restore" will overwrite the cu configuration, please use "Ba	arrent configuration and restart the device. If you want to keep the current ackup" first to save current configuration.
Restore	

When you click **Restart Router**, you have two functions. One is to restart it with current settings and the other is to restart it with factory default settings if you check **Reset to factory default settings**.

When you click **User Management**, you are able to edit existing user's database or to create other user accessing this device.



3.6.3.4 Firewall

Your router includes a full SPI (Stateful Packet Inspection) firewall for controlling Internet access from your LAN, as well as helping to prevent attacks from hackers. In addition to this, when using NAT (Network Address Translation. Please see the **WAN** configuration section for more details on NAT) the router acts as a "natural" Internet firewall, as all PCs on your LAN will use private IP addresses that cannot be directly accessed from the Internet.

Firewall: Prevents access from outside your network. The router provides three levels of security support:

NAT natural firewall: This masks LAN users' IP addresses which are invisible to outside users on the Internet, making it much more difficult for a hacker to target a machine on your network.

This natural firewall is on when NAT function is enabled.

Firewall Security and Policy (General Settings): Inbound direction of Packet Filter rules to prevent unauthorized computers or applications accessing your local network from the Internet.

Intrusion Detection: Enable Intrusion Detection to detect, prevent and log malicious attacks.

Access Control: Prevents access from PCs on your local network:

Firewall Security and Policy (General Settings): Outbound direction of Packet Filter rules to prevent unauthorized computers or applications accessing the Internet.

MAC Filter rules: To prevent unauthorized computers accessing the Internet.

URL Filter: To block PCs on your local network from unwanted websites.

You can find six items under the Firewall section: General Settings, Packet Filter, Intrusion Detection, MAC Address Filter, URL Filter and Firewall Log.

You can choose not to enable Firewall, to add all filter rules by yourself, or enable the Firewall using preset filter rules and modify the port filter rules as required. The Packet Filter is divided into two sections: Port Filters and Address Filters, used to filter packets based-on Applications (Port) or IP addresses.

There are four options when you enable the Firewall, they are:

- All blocked/User-defined: no pre-defined port or address filter rules by default, meaning that all inbound (Internet to LAN) and outbound (LAN to Internet) packets will be blocked. Users have to add their own filter rules for further access to the Internet.
- High/Medium/Low security level: the pre-defined port filter rules for High, Medium and Low security are displayed in Port Filters of Packet Filter.

Select either **High**, **Medium** or **Low security level** to enable the Firewall. The only difference between these three security levels is the preset port filter rules in the Packet Filter. Firewall functionality is the same for all levels; it is only the list of preset port filter that changes between each setting.

If you choose of the preset security levels and then add custom filters, you may temporarily disable the firewall and recover your custom filter settings by re-selecting the same security level.

The "**Block WAN Request**" is a stand-alone function and not relate to whether security enable or disable. Mostly it is for preventing any scan tools from WAN site by hacker.



General Settings

Firewall Security									
Security	⊙Enable ○Disable								
	O All blocked/User-defined								
Policy	O High security level								
Foncy	Medium security level								
	O Low security level								
(If some applications cannot work after enabling Firewall, please check the Packet Filter especially Port Filter rules. For example, adding (TCP:443,outbound allowed) will let HTTPS data go through Firewall).									
Block WAN Request	⊙Enable ○Disable								

Apply

Firewall Security: When you enable Firewall function, you can select one of the firewall security policies.

All blocked/User-defined: By default, all of traffic between WAN and LAN are blocked. You have to configure the type of traffic passed between WAN and LAN, please refer to Packet Filter below.

High, Medium and Low security level: By default, your system uses High, Medium and Low firewall security level between the WAN and LAN. For example, when you select High, the Port Filters of Packet Filter screen will be set automatically according to High security level settings. Look the table below for details:

Application	Protocol	Port		Firewall	(High)	Firewall(Medium)	Firewall	(Low)
		Num	ber						
		Start	End	Inbound	Outbound	Inbound	Outbound	Inbound	Outbound
HTTP(80)	TCP(6)	80	80	NO	YES	NO	YES	NO	YES
DNS (53)	UDP(17)	53	53	NO	YES	NO	YES	NO	YES
DNS (53)	TCP(6)	53	53	NO	YES	NO	YES	NO	YES
FTP(21)	TCP(6)	21	21	NO	NO	NO	YES	NO	YES
Telnet(23)	TCP(6)	23	23	NO	NO	NO	YES	NO	YES
SMTP(25)	TCP(6)	25	25	NO	YES	NO	YES	NO	YES
POP3(110)	TCP(6)	110	110	NO	YES	NO	YES	NO	YES
NEWS(119)	TCP(6)	119	119	NO	NO	NO	YES	NO	YES
RealAudio	UDP(17)	7070	7070	NO	NO	YES	YES	YES	YES
(7070)									
ICMP	ICMP(1)	N/A	N/A	NO	YES	NO	YES	NO	YES
H.323(1720)	TCP(6)	1720	1720	NO	NO	NO	YES	YES	YES
T.120(1503)	TCP(6)	1503	1503	NO	NO	NO	YES	YES	YES
SSH(22)	TCP(6)	22	22	NO	NO	NO	YES	NO	YES
NTP(123)	UDP(17)	123	123	NO	YES	NO	YES	NO	YES
HTTPS(443)	TCP(6)	443	443	N/A	N/A	NO	YES	NO	YES
ICQ(5190)	TCP(6)	5190	5190	N/A	N/A	N/A	N/A	YES	YES
MSNP	TCP(6)	1863	1863	N/A	N/A	N/A	N/A	YES	YES
ASF3	UDP(17)	7001	7001	N/A	N/A	N/A	N/A	YES	YES
РРТР	TCP(1723)	1723	1723	N/A	N/A	N/A	N/A	N/A	N/A
IPSEC	UDP(6)	500	500	N/A	N/A	N/A	N/A	N/A	N/A



Firewall Logging: When both of Firewall Security and Firewall Logging are enabled, the device will detect the blocked and/or intrusion packets, once the setting has configured. Then the router will log the corresponding (blocking or intrusion detection) logs into the Event Log under Status.

The Firewall – Packet Filter is shown as below.

Packet Filter									
Firewall Security									
Туре	Configuration		Note						
external < > internal	Port Filters 🔿	Address Filters 🜔	 By default, all protocol types and TCP/UDP ports are blocked. Only the listed IP addresses are blocked 						

You may configure to filter inbound (incoming) and outbound (outgoing) packets based on PORT or IP address.

If it is based on PORT, click Port Filters for more options. You may filter the packets based on PORT and packet type (TCP or UDP or any). For example, the protocol number 1 means ICPM. You may enter 1 to protocol number of Raw IP Filtering web page. Port ranges are supported.

If it is based on IP address, click Address Filters for more options. You may enter the IP address and again to select the inbound or outbound packets.

For example, to allow TCP packet, port 0 to 1000 passing router between WAN and LAN and blocks host IP address, 192.168.1.100. Then you have to configure the port filter \rightarrow add TCP filter > 0 to 1000 and ALLOW in both direction. Then click address filter \rightarrow add address filter \rightarrow enter host IP 192.168.1.100, subnet mask 255.255.255.0 and both direction.

3.6.3.4.1 Configuring Packet Filter

1. Click Packet Filter, you will get the following figure.

			C	ick Port Filt	ers	
	Þ	Status Quick Start			<u>F</u>	Packet Filter
	¥	Configuration	Туре	🔶 Cont	iguration	Note
<	_	► LAN ► System Firowall Participations <th>external 5 > internal</th> <th>Part Fillers O</th> <th>Addrass Fitars O</th> <th>1. By default, all protocol types and TCP/UDP ports are blocked. 2. Only the listed IP addresses are blocked</th>	external 5 > internal	Part Fillers O	Addrass Fitars O	1. By default, all protocol types and TCP/UDP ports are blocked. 2. Only the listed IP addresses are blocked
	٥	Save Config to FLASH				
	٠	Logout				
		Language English 👻				

2. Click Port Filters, the pre-defined port filter rules screen of low security level is shown as below.

>	Status						FOIL	rillers	
0	Quick Start	Bart	C i Bra na						
v		Туре	Start	End	Inbound	Outbound			
	⊳ System	Б	80	8D	false	true	Delete 🛛 🗲		- Click De
	General Settings	17	53	53	true	true	Delete 👔		
	Packet Filter Intrusion Detection	Б	53	63	true	true	Delete 🕥		
	MAC Address Filter URL Filter	Б	21	21	false	true	Delete O		
	▷ VPN ▷ Advanced	Б	23	23	false	true	Delete O		
	Save Config to FLASH	Б	25	25	false	true	Delete 🕥		
)	Logout	Б	110	110	false	true	Delete 👔		
	Lanmana	Б	119	119	false	true	Delete 👔		
	English 💙	17	7070	7070	true	true	Delete 👔		
		1	N/A	N/A	false	true	Delete 👩		
		Б	1720	1720	true	true	Delete 🕥		
		Б	1503	1503	true	true	Delete 🕥		
		Б	22	22	true	true	Delete 🕥		
		17	123	123	false	true	Delete 🕥		
		6	443	443	false	true	Deleteo		

- 3. Click Delete to delete the HTTP rule.
- 4. Click Add TCP Filter.

	Status	Б	53	53	true	frue	Delete 🕼
0	Quick Start	Б	21	21	false	irue	Delete 🕥
∇	Configuration	Б	23	23	false	true	Delete 😰
	▷ LAN ▷ WAN	6	25	25	false	true	Delete 🕥
	I≫ System ▼ Firewall	Б	110	110	false	irue	Delete 🕥
_	General Settings Packet Filter	Б	119	119	false	irue	Delete 🕥
	Intrusion Detection MAC Address Filter	17	7070	7070	true	frue	Delete 🕥
	URL Filter	1	N/A	N/A	false	true	Delete 🕥
	Advanced	Б	1720	1720	true	true	Delete 🕥
۰	Save Config to FLASH	Б	1503	1503	true	1rue -	Delete 🕥
٥	Lagout	Б	22	22	true	irue	Delete 👔
	Language	17	123	123	false	true	Delete 🕦
	English 💙	Б	443	443	false	1rue -	Delete 🚺
		Add T(Add U Add R Add R	CP Filte CP Filte awr IP F	r O 91 O ilter (0	— Click Ad	ld TCP Filter

5. Input the port number and set the inbound & outbound as Allow.



Þ	Status			Fire	wall Ac	id TCF	Port Filte	er
0	Quick Start							
V	Configuration	Transport	Port Range		Direction			
	⊳ LAN ⊳ WAN	Туре	Start	End	Inbound	Outbound		
	I≫ System ▼ Firewall	TCP	80	80	Allow 💌	Allow 🔽		
<	Ganeral Settings Packet Filter Intrusion Detection MAC Address Filter URL Filter VPN P Advanced	Арріу Retum Ф	Input HTTF) port numb	er Sele	ct Allow	a A	
0	Save Config to FLASH							
•	Logout							
	Language English 🐨							

6. The port filter rule of HTTP is shown as below.

b	s Status	· · · · · · · · ·	·	<1	×1	INIPA	11 11 11 11 11 11 11 11 11 11 11 11 11	melere A			
	Quick Start	e	3	23	23	false	true	Delete 🕥			
	Configuration	E	5	25	25	false	true	Delete 🕥			
	IP LAN I≫ WAN	E	; ·	110	110	false	true	Delete 🕥			
	I≫ System ▼ Firewali	E	3 ·	119	119	false	true	Delete 🕥			
	General Settings Packet Filter	ŀ	17	7070	7070	true	true	Delete 🕥			
	Intrusion Detection MAC Address Filter	-	1	N/A	N/A	false	true	Delete 🕥			
	URL Filter	E	5	1720	1720	true	true	Delete 🕥			
	Advanced	E	i	1503	1503	true	true	Delete 🕥			
C	Save Config to FLASH	e	6	22	22	true	true	Delete 🕥			
C	> Logout	F	17	123	123	false	true	Delete 🕥			
	Language	E	5	443	443	false	true	Delete O			
	English 👻 <	6	;	80	80	true	true	Delete 🔿	>		
		A	Add TCP Filter O								
		Ą	Add UDP Filter								
		Ą	dd Rav	v IP Fi	lter	>					
		R	eturn	0							

3.6.3.4.2 INTRUSION DETECTION

The router's *Intrusion Detection System* (IDS) is used to detect hacker attacks and intrusion attempts from the Internet. If the IDS function of the firewall is enabled, inbound packets are filtered and blocked depending on whether they are detected as possible hacker attacks, intrusion attempts or other connections that the router determines to be suspicious.

Blacklist: If the router detects a possible attack, the source IP or destination IP address will be added to the Blacklist. Any further attempts using this IP address will be blocked for the time period specified as the **Block Duration**. The default setting for this function is false (disabled). Some attack types are denied immediately without using the Blacklist function, such as *Land attack* and *Echo/CharGen scan*.

Block Duration:

• **DoS Attack Block Duration**: This is the duration for blocking hosts that attempt a possible Denial of Service (DoS) attack. Possible DoS attacks this attempts to block include *Ascend Kill* and *WinNuke*. Default value is 1800 seconds.





- Scan Attack Block Duration: This is the duration for blocking hosts that attempt a possible Scan attack. Scan attack types include *X'mas scan, IMAP SYN/FIN scan* and similar attempts. Default value is 86400 seconds.
- Victim Protection Block Duration: This is the duration for blocking *Smurf* attacks. Default value is 600 seconds.

Victim Protection: If enabled, IDS will block Smurf attack attempts. Default is false.

Max TCP Open Handshaking Count: This is a threshold value to decide whether a *SYN Flood* attempt is occurring or not. Default value is 100 TCP SYN per seconds.

Max PING Count: This is a threshold value to decide whether an *ICMP Echo Storm* is occurring or not. Default value is 15 ICMP Echo Requests (PING) per second.

Max ICMP Count: This is a threshold to decide whether an *ICMP flood* is occurring or not. Default value is 100 ICMP packets per seconds except ICMP Echo Requests (PING).

For SYN Flood, ICMP Echo Storm and ICMP flood, IDS will just warn the user in the Event Log. It cannot protect against such attacks.

Intrusion Detection	- rani	
Victim Protection Block Duration	500	seconds
Scan Attack Block Duration	36400	seconds
DOS Attack Block Duration	1800	seconds
Maximum TCP Open Handshaking Count	100	per second
Maximum Ping Count	15	per second
Maximum ICMP Count	100	per second
Maximum ICMP Count	100	per second

Hacker attack types recognized by the IDS

Attack	Detect Parameter	Blacklist	Type of Block	Drop	Show
			Duration	Packet	Log
Ascend Kill	Ascend Kill	Src IP	DoS	Yes	Yes
Win Nuke	TCP, Port=135, 137-139	Src IP	DoS	Yes	Yes
	Flag:URG				
Smurf	ICMP type 8	Dst IP	Victim	Yes	Yes
	Des IP is broadcast		Protection		
Land Attack	SrcIP = DstIP			Yes	Yes
Echo/CharGen	UDP Echo Port and			Yes	Yes
Scan	CharGen Port				
Echo Scan	UDP Dst Port =Echo(7)	Src IP	Scan	Yes	Yes
CharGen Scan	UDP Dst Port =CharGen(19)	Src IP	Scan	Yes	Yes
X'Mas Tree Scan	TCP Flag: X'mas	Src IP	Scan	Yes	Yes
IMAP SYN/FIN	TCP Flag: SYN/FIN	Src IP	Scan	Yes	Yes
Scan	DstPort: IMAP(143)				



	SrcPort: 0 or 65535				
SYN/FIN/RST/ACK	TCP, No Existing session	Src IP	Scan	Yes	Yes
Scan	And Scan Hosts more than five				
Net Bus Scan	TCP No Existing session	Src IP	Scan	Yes	Yes
	DstPort = Net Bus				
	12345,12346, 3456				
Back Orifice Scan	UDP, DstPort=Orifice Port	Src IP	Scan	Yes	Yes
	(31337)				
SYN Flood	Max TCP Open Handshaking				Yes
	Count(Def=100 s)				
ICMP Flood	Max ICMP Count (Def=100 s)				Yes
ICMP Echo	Max Ping Count (Def=15 s)				Yes

3.6.3.4.3 MAC Filtering

INAC AUDICSS I IICI	
Filtering Rules	
MAC Address Filter	◯ Enable ⊙ Disable
For LAN ethernet frames, only the following Source MAC Address(es) are	○ Allowed
MAC Address	00:00:00:00:00
	4
Apply	

MAC filtering function enables you to configure your ADSL Firewall Router to block internal user (MAC address) from Internet access.

• Enable / Disable: Check Enable / Disable radio button to active / disable, in respectively, the MAC address filter function. If you check Enable, remember to choose either Allowed or Blocked the MAC Address listed in the table, as shown above. If you select Blocked, the packet with the MAC address in the table will be dropped and others will be forwarded. If you select Allowed, the packet with the MAC address in the table will be forwarded and others will be dropped. Then select Apply button to save the setting.

3.6.3.4.4 URL Filtering

URL filter rules allow you to prevent users on your network from accessing particular websites by their URL. There are no predefined URL filter rules; you can add filter rules to meet your requirements.



URL Filter		
Configuration		
URL Filtering	Enable O Disable	
	Always Block	
Block Mode	08 V: 00 V to 18 V: 00 V	
	Monday v to Friday	
Keywords Filtering	🗌 Enable Details 오	
Demaine Filtering	🗌 Enable Details 오	
Domains Filtening	Disable all WEB traffic except for Trusted Domains	
Destrict UDL Continues	Block Java Applet	
Restrict URL Features	Block surfing by IP address	
Apply Cancel		

Keywords Filtering:

Allows blocking by specific keywords within a particular URL rather than having to specify a complete URL (e.g. to block any image called "advertisement.gif").

When enabled, your specified keywords list will be checked to see if any keywords are present in URLs accessed to determine if the connection attempt should be blocked.

Please note that the URL filter blocks web browser (HTTP) connection attempts using port 80 only.

For example, if the URL is http://www.helloworld.com.tw/abcde.html, it will be dropped as the keyword "abcde" occurs in the URL.

Domains Filtering:

This function checks the domain name in URLs accessed against your list of domains to block or allow. If it is matched, the URL request will be sent (Trusted) or dropped (Forbidden). The checking procedure is:

1. Check the domain in the URL to determine if it is in the trusted list. If yes, the connection attempt is sent to the remote web server.

2. If not, check if it is listed in the forbidden list, and if present then the connection attempt is dropped..

3. If the packet does not match either of the above two items, it is sent to the remote web server.

4. Please be note that the domain only should be specified, not the full URL. For example to block traffic to www.sex.com, enter "sex" or "sex.com" instead of "www.sex.com". In the example below, the URL request for www.helloworld.com.tw will be sent to the remote web server because it is listed in the trusted list, whilst the URL request for www.sex or www.sex.com will be dropped, because helloworld.com is in the forbidden list.

Restrict URL Features:

Block Java Applet: This function can block Web content which including the Java Applet. It is for preventing someone who wants to damage your system via standard HTTP protocol. **Block surfing by IP address:** Preventing someone who uses the IP address as URL for skipping **Domains Filtering** function.



3.6.3.4.5 Firewall Log

Firewall Log display log information of any unexpected action with your firewall settings. Check the **Enable** box to activate the logs.

Log information can be seen in the Status – Event Log after enabling.

Firewall Log		
Event will be shown in the	Status - Event Log	
Filtering Log	💿 Enable 🔿 Disable	
Intrusion Log	💿 Enable 🔿 Disable	
URL Blocking Log	💿 Enable 🔿 Disable	
URL Blocking Log	💿 Enable 🔘 Disable	
Apply		



3.6.3.5 VPN

Your router support 2 main types of VPN (Virtual Private Network), PPTP and IPSec, and these are the two major section choices from the menu on the left. Click **Create** to select one of applications to continually setup.

VPN - PPTP

The router supports PPTP VPN to establish secure, end-to-end private network connections over a public networking infrastructure. There are two kinds of PPTP VPN connections, one is remote access (dial-in & dial-out), and the other is LAN-to-LAN access.

Deploying a remote access VPN enables users to reduce the cost by leveraging the local dial-up infrastructures of the ISP, in addition, transmitting data over a secure VPN tunnel.

LAN-to-LAN PPTP VPN is an alternative WAN infrastructure that is used to connect offices and home offices to share network resources with each other over a secure VPN tunnel.

There are two types of PPTP VPN supported, Remote Access and LAN-to-LAN (please refer below for more information.). Click Create to configure a new VPN connection.

Remote Access Co	onnection				
Connection Name	Dial-IN				
Tuss	◯ Dial out,	Server IP Addr	ess (or Hostnam	e)	
туре	💿 Dial in,	Private IP Add	ress Assigned to) Dialin User	192.168.1.200
Username	Username				
Password	•••••				
Auth. Type	Chap(Auto) 💌				
Data Encryption	Auto 🔽	Key Length	Auto 💌	Mode	stateful 💌
Idle Timeout	0 minutes				

Connection Name: This allows you to identify this particular connection, e.g. "Connection to office LAN".

Type: Check **Dial Out** if you want your router to operate as a client (connecting to a remote VPN server, e.g. your office server), check **Dial In** operates as a VPN server.

- When configuring your router as a Client, enter the remote Server IP Address (or Hostname) you wish to connection to.
- When configuring your router as a server, enter the **Private IP Address Assigned to Dial in** User address.

Username: If you are a Dial-Out user (client), enter the username provided by your Host. If you are a Dial-In user (server), enter your own username.

Password: If you are a Dial-Out user (client), enter the password provided by your Host. If you are a Dial-In user (server), enter your own password.

PPP Authentication Type: Default is Auto if you want the router to determine the authentication type to use, or else manually specify CHAP (Challenge Handshake Authentication Protocol) or PAP (Password Authentication Protocol) if you know which type the server is using (when acting as a client), or else the authentication type you want clients connecting to you to use (when acting as a server). When using PAP, the password is sent unencrypted, whilst CHAP encrypts the password



before sending, and also allows for challenges at different periods to ensure that the client has not been replaced by an intruder.

Data Encryption: Data sent over the VPN connection can be encrypted by an MPPE algorithm. Default is **Auto**, so that this setting is negotiated when establishing a connection, or else you can manually **Enable** or **Disable** encryption.

Key Length: The data can be encrypted by MPPE algorithm with 40 bits or 128 bits. Default is **Auto**, it is negotiated when establishing a connection. 128 bit keys provide stronger encryption than 40 bit keys.

Mode: You may select **Stateful** or **Stateless** mode. The key will be changed every 256 packets when you select Stateful mode. If you select Stateless mode, the key will be changed in each packet.

Idle Time: Auto-disconnect the VPN connection when there is no activity on the connection for a predetermined period of time. 0 means this connection is always on.

Click Apply after changing settings.

An Example of Configuring a Remote Access PPTP VPN Dial-in Connection

Background of the Example

A remote worker establishes a PPTP VPN connection with the head office using Microsoft's VPN Adapter, a piece of software included with Windows 2000/ME, etc. The Router is installed in the Office Lan, connected to a couple of PCs and Servers.

Application Diagram





Configuring PPTP VPN in the Office LAN Router

The input IP address 192.168.1.200 will be assigned to the remote worker, please make sure this IP is not used in the Office LAN.

PPTP					
Remote Access C	onnection				
Connection Name	Dial-IN				
Tura	◯ Dial out,	Server IP Addr	ess (or Hostname)		
rype	⊙ Dialin,	Private IP Add	lress Assigned to I	Dialin User	192.168.1.200
Username	Username				
Password	•••••				
Auth. Type	Chap(Auto) 💌				
	Auto	Key Length	Auto 🗸	Mode	stateful 🗸
Data Encryption		rioj Longin		1000 To To To	

Configuring PPTP VPN in Remote Side

You can configure VPN client with commercial VPN client software package (e.g. SSH) or the Dialup Adaptor in Windows. Please follow the steps below if you are a Windows 2000/XP user. 1. Click Network and Dial-up Connection and Make new connection

🔁 Network and Dial-up Connections	<u>_8×</u>
File Edit View Favorites Tools Advanced Help	
← Back → → → 🖬 🔞 Search 🖓 Folders 🎯 History 📲 🧏 🗙 🖄 📰 -	
Address 🗃 Network and Dial-up Connections	
New Connections New Connection Create Shortcut	
Make New Connection	
The Network Connection wicard helps you rearge a new connection access to other computers and networks.	
Creates a new connection.	
🏽 Start 🛛 🙆 🤤 🔁 Network and Dial-up C	🍕 🕮 10:02 AM

2. Follow the step and select "Connect to a private network through the Internet"





3. Enter the IP address of the ADSL Router located in the office Lan (or Dynamic DNS name).

twork Connection Wizard	
Destination Address What is the name or address of the destin	ation?
Type the host name or IP address of the c connecting.	omputer or network to which you are
Host name or IP address (such as microso	ft.com or 123.45.6.78):
	< Back Next > Cancel

4. Follow the step, the following screen appears. The setup is completed.





Network Connection Wizard	
S	Completing the Network Connection Wizard
	Type the name you want to use for this connection:
	Virtual Private Connection
	To create this connection and save it in the Network and Dial-up Connections folder, click Finish.
	To edit this connection in the Network and Dial-up Connections folder, select it, click File, and then click Properties.
	Add a shortcut to my desktop
	< Back Finish Cancel

5. To make the connection, click the Virtual Private Connection icon in Dial-up Networking Group, and input the username & password set in ADSL Router.

Connect ¥irtua	Private Connection
User name:	username
Password:	жжжжж
	Save Password
Connect	Cancel Properties Help



An Example of Configuring a Remote Access PPTP VPN Dial-out Connection

Background of the Example

Corporate establishes a PPTP VPN connection with the file server located in the remote side. The router is installed in the office, connected with a couple of PCs and Servers.

Application Diagram



Configuring PPTP VPN in the Office

You can either input the IP address (80.123.23.45 in this case) or hostname to reach the Server. **PPTP**

Connection Name	ToFileServer					
Tune	⊙ Dial out,	Server IP Address (or Hostname)			80.123.23.45	
туре	◯ Dialin,	Private IP Add	ress Assig	ned to D	Dialin User	
Username	username					
Password						
Auth. Type	Chap(Auto) 💌					
Data Encryption	Auto 💌	Key Length	Auto	~	Mode	stateful 💌
Idle Timeout	0 minutes					

Refer also to **PPTP VPN – remote access (dial-in)** for the other parameters.



PPTP Status

This shows details of your configured PPTP VPN Connections.

PPTP	Status	;						
VPN/PPT	P for Re	emote A	ccess Ap	plication				
Name		Туре	Enable	Active	Tunnel Connected	Call Connected	Encryption	
ToFileServer c		dialout 🗙		×	×	×	encryption none	
₽ N/ PPT	P for LA	N-to-LA	AN Applica	ation				
Name	Туре	Ena	able /	Active	Tunnel Connected	Call Connected	Encryption	

Name: The name you assigned to the particular PPTP connection in your VPN configuration. **Type:** The type of connection (dial-in/dial-out).

Enable: Whether the connection is currently enabled.

Active: Whether the connection is currently active.

Tunnel Connected: Whether the VPN Tunnel is currently connected.

Call Connected: If the Call for this VPN entry is currently connected.

Encryption: The encryption type used for this VPN connection.



An Example of Configuring a LAN-to-LAN PPTP VPN Connection

Background of the Example

The Remote LAN establishes a PPTP VPN tunnel with the Office LAN to connect two private networks by leveraging the Internet infrastructure. The routers are installed in the Office Lan and Remote Lan accordingly.

Application Diagram



	Remote LAN	Office LAN
Product Code	A02-RA3+	A02-WRA4-54G
Picture		
Public IP	80.17.56.78	69.121.1.32
NAT	Yes	Yes
LAN IP	192.168.1.X	192.168.2.X
Subnet Mask	255.255.255.0	255.255.255.0
РРТР	Client PPTP	Server PPTP



Configuring PPTP VPN in the Office Lan

The input IP address 192.168.2.200 will be assigned to the router located in the Remote LAN. Please make sure this IP is not used in the head office LAN.

LAN to LAN					
Connection Name	Lan-To-Lan				
Tuno	O Dial out,	Server IP Address (or Hostname)			
туре	💿 Dial in,	Private IP Address Assigned to Dialin User			192.168.2.200
Peer Network IP	192.168.1.0	Netmask			255.255.255.0
Username	Username				
Password		1			
Auth. Type	Chap(Auto) 🔽				
Data Encryption	Auto 💌	Key Length	Auto	Mode	stateful 💌
Idle Timeout	0 minutes				

Configuring PPTP VPN in the Remote Lan

The input IP address 69.121.1.32 is the **Public IP** address of the router located in the Office Lan. If you have a domain name assigned to this IP address - either you registered the DDNS (please refer to the **DDNS** section), or you have a static IP with a domain name, you can also use the Hostname instead of the IP address to reach the router.

FFIF					
LAN to LAN	A:				
Connection Name	Lan-To-Lan				
Tuna	💿 Dial out,	Server IP Addr	ess (or Hostname)	i.	69.121.1.32
Type	O Dial in,	Private IP Add			
Peer Network IP	192.168.2.0	Netmask			255.255.255.0
Username	Username				
Password					
Auth. Type	Chap(Auto) 🔽				
Data Encryption	Auto 💌	Key Length	Auto 💌	Mode	stateful 💌
Idle Timeout	0 minutes				

Refer also to Configuring PPTP VPN in the Office LAN for other parameters.





PPTP Status in the Office LAN

This shows details of your configured PPTP VPN Connections.

Name: The name you assigned to the particular PPTP connection in your VPN configuration.

Type: The type of connection (dial-in/dial-out).

Enable: Whether the connection is currently enabled.

Active: Whether the connection is currently active.

Tunnel Connected: Whether the VPN Tunnel is currently connected.

Call Connected: If the Call for this VPN entry is currently connected.

Encryption: The encryption type used for this VPN connection.



VPN - IPSec

The router supports IPSec VPN to establish secure, end-to-end private network connections over a public networking infrastructure.

Jreate			
Connection Name			
Local			
	 Single Address 	IP Address	
NetWork	O Subnet	IP Address	Netmask
	◯ IP Range	IP Address	End IP
Remote			
Secure Gateway Address	s(or Hostname)		
	⊙ Single Address	IP Address	
NetWork	O Subnet	IP Address	Netmask
	◯ IP Range	IP Address	End IP
Proposal			
0.500	Authentication	None 💌	
© ESP	Encryption	NULL 💌	
O AH	Authentication	MD5 💌	
Perfect Forward Secrecy	None 💌		
Pre-shared Key			

Connection Name: A user-defined name for the connection (e.g. "To Remote Lan or To Office LAN ").

Local:

Local Network: Set the IP address, subnet or address range of the local network.

- Single Address: The IP address of the local host.
- Subnet: The subnet of the local network. For example, IP: 192.168.1.0 with netmask 255.255.255.0 specifies one class C subnet starting from 192.168.1.1 (i.e. 192.168.1.1 through to 192.168.1.254).
- IP Range: The IP address range of the local network. For example, IP: 192.168.1.1, end IP: 192.168.1.10

Remote:

- Secure Gateway Address (or hostname): The IP address or hostname of the remote VPN device that is connected and establishes a VPN tunnel.
- Network: Set the IP address, subnet or address range of the remote network.

Proposal:

- **Proposal:** Select the IPSec security method. There are two methods of checking the authentication information, AH (authentication header) and ESP (Encapsulating Security Payload). Use ESP for greater security so that data will be encrypted and authenticated. Using AH data will be authenticated but not encrypted.
- Authentication: Authentication establishes the integrity of the datagram and ensures it is not tampered with in transmit. There are three options, Message Digest 5 (MD5), Secure Hash Algorithm (SHA-1) or NONE. SHA-1 is more resistant to brute-force attacks than MD5, however it is slower.



- **MD5:** A one-way hashing algorithm that produces a 128-bit hash.
- **SHA-1:** A one-way hashing algorithm that produces a 160-bit hash.
- Encryption: Select the encryption method from the pull-down menu. There are four options, DES, 3DES, AES and NONE. NONE means it is a tunnel only with no encryption. 3DES and AES are more powerful but increase latency.
 - **DES:** Stands for Data Encryption Standard, it uses 56 bits as an encryption method.
 - **3DES:** Stands for Triple Data Encryption Standard, it uses 168 (56*3) bits as an encryption method.
 - **AES:** Stands for Advanced Encryption Standards, it uses 128 bits as an encryption method.

Perfect Forward Secrecy: Choose whether to enable PFS using Diffie-Hellman publickey cryptography to change encryption keys during the second phase of VPN negotiation. This function will provide better security, but extends the VPN negotiation time. Diffie- Hellman is a public-key cryptography protocol that allows two parties to establish a shared secret over an unsecured communication channel (i.e. over the Internet). There are three modes, MODP 768-bit, MODP 1024-bit and MODP 1536-bit. MODP stands for Modular Exponentiation Groups.

Pre-shared Key: This is for the Internet Key Exchange (IKE) protocol, a string from 4 to 128 characters. Both sides should use the same key. IKE is used to establish a shared security policy and authenticated keys for services (such as IPSec) that require a key.

Before any IPSec traffic can be passed, each router must be able to verify the identity of its peer. This can be done by manually entering the pre-shared key into both sides (router or hosts).

Select the Save button to save the setting.

Click Advanced Option to change the following settings:

IPSec		
IPSec Configuration		
IKE Mode	Main	
Local ID		
Туре	Default	
Content		
Remote ID		
Туре	Default	
Identifier		
SA Lifetime		
Phase 1(IKE)	240	
Phase 2(IPSec)	60	



SA Lifetime: Specify the number of minutes that a Security Association (SA) will stay active before new encryption and authentication key will be exchanged. There are two kinds of SAs, IKE and IPSec. IKE negotiates and establishes SA on behalf of IPSec, an IKE SA is used by IKE.

Phase 1 (IKE): To issue an initial connection request for a new VPN tunnel. The range can be from 5 to 15,000 minutes, and the default is 240 minutes.

Phase 2 (IPSec): To negotiate and establish secure authentication. The range can be from 5 to 15,000 minutes, and the default is 60 minutes.

A short SA time increases security by forcing the two parties to update the keys. However, every time the VPN tunnel re-negotiates, access through the tunnel will be temporarily disconnected.

Select the **Apply** button to update the settings.



An Example of Configuring a LAN-to-LAN IPSec VPN Connection



	Remote LAN	Office LAN
Product Code	A02-RA3+	A02-WRA4-54G
Picture		
Public IP	69.121.1.31	69.121.1.32
NAT	Yes	Yes
LAN IP	192.168.1.X	192.168.2.X
Subnet Mask	255.255.255.0	255.255.255.0
VPN IPSec	ESP	ESP
Encryption	DES(or 3DES/AES)	DES(or 3DES/AES)
Authentication	MD5 (or SHA1)	MD5 (or SHA1)
Perfect Forward Secrety	None	None
IKE Pre Shared Key	123456789	123456789



Configuring IPSec VPN in the Office LAN IPSec

Create					
Connection Name	Lan-To-Lan				
Local					
	◯ Single Address	IP Address			
NetWork	⊙ Subnet	IP Address	192.168.2.0	Netmask	255.255.255.0
	◯ IP Range	IP Address		End IP	
Remote					
Secure Gateway Address(or Hostname)		69.121.1.31			
	◯ Single Address	IP Address			
NetWork	⊙ Subnet	IP Address	192.168.1.0	Netmask	255.255.255.0
	◯ IP Range	IP Address		End IP	
Proposal					
0.500	Authentication	MD5 💌			
UE5P	Encryption	DES 💌			
OAH	Authentication	MD5 💌			
Perfect Forward Secrecy	None 💌				
Pre-shared Key	123456789				

Configuring IPSec VPN in the Remote LAN

Connection Nome	Lon To Lon				
Connection Name	Lan-10-Lan				
Local					
	◯ Single Address	IP Address			
NetWork	Subnet	IP Address	192.168.1.0	Netmask	255.255.255.0
	◯ IP Range	IP Address		End IP	
Remote					
Secure Gateway Address	s(or Hostname)	69.121.1.32			
	O Single Address	IP Address			
NetWork	⊙ Subnet	IP Address	192.168.2.0	Netmask	255.255.255.0
	OIP Range	IP Address		End IP	
Proposal					
0.500	Authentication	MD5 💌			
©E5P	Encryption	DES 💌			
O AH	Authentication	MD5 💌			
Perfect Forward Secrecy	None 💌				
Pre-shared Key	123456789	1			



3.6.3.6 QoS

QoS function helps you to control your network traffic for each application from LAN (Ethernet and/or Wireless) to WAN (Internet). It facilitates you to control the different quality and speed of through put for each application when the system is running with full loading of upstream.

You can find two items under the QoS section: Prioritization and IP Throttling (bandwidth management).

3.6.3.6.1 Prioritization

There are three priority settings to be provided in the modem:

- High
- Normal (The default is normal priority for all of traffic without setting).
- Low

The trigger of check can base on IP protocol, port number and address.

And the balance of utilization of each priorities are High(60%), Normal(30%) and Low(10%).

	1.12		100	0.02			1223		
Þ	ri	n	ri	ti	7	a	ti	n	n
		U			4	u		U	

Configura	ation (from LAN	to WAN pac	ket)		
Enable	Fuchia Audioation	Distant		Source Port	Source IP Address Range (0.0.0.0' means Any)
Enable Application	Filonity	FIOLOCOI	Destination Port	Destination IP Address Range (0.0.0.0' means Any)	
	DDTD		High 💌 GRE	none	~
		riign 💌		none	~
	1	Link w	any 💌	0~0	~
		rign 💌		0 ~0	
	1		any 💌	0 ~0	~
		rign 💌		0 ~0	~

Enable: Select it to activate the function.

Application: A name that identifies an existing rule.

Priority: High or Low, the priority for existing rule. All of traffic will be set to normal priority until you change it. The balance of utilizations for each priority is High (60%), Normal (30%) or Low (10%).

Protocol: The name of supported protocol.

Source Port: The source port of packets to be monitored.

Destination Port: The destination port of packets to be monitored.

Source IP Address Range: The source IP address or IP range of packets to be monitored.

Destination IP address Range: The destination IP address or IP range of packets to be monitored.

	нттр	High 😺	ligh V top V	0	~0	192.168.1.5	~ 192.168.1.5
. 💌 .			icp 💌	80	~ <mark>8</mark> 0	0.0.0	~0.0.0.0
	SMTP	High 💀	Link at	0	~0	192.168.1.5	~ 192.168.1.9
		rign 💌	icp 💌	25	~ 25	0.0.0.0	~0.0.0.0
	(DOD2	3 High 💌 tcp 💌	ton	0	~ 0	192.168.1.10	~ 192.168.1.20
	FOFS		110	~ 110	0.0.0	~ 0.0.0.0	



3.6.3.6.2 IP Throttling

IP Throttling allows you to limit the speed of IP traffic. The value entered will limit the speed of the application that you set to the specified value's multiple of 32kbps.

The trigger of check can base on IP protocol, port number and address as well.

IP Throttling

Configura	ation (from LAN	to WAN pac	ket)		
Enable	Source Port (0.0	Source IP Address Range (0.0.0.0' means Any)	Linetreen Deter Linet		
Cuapie	Application	Protocol	Destination Port	Destination IP Address Range (0.0.0.0' means Any)	Opstream Rate Limit
	ETD		20 ~ 21	192.168.1.9 ~ 192.168.1.9	
		icp 💌	0 ~0	0.0.0.0 ~ 0.0.0.0	2 *32 (kbps)

Enable: Select it to activate the function.

Application: A name that identifies an existing rule.

Protocol: The name of supported protocol.

Source Port: The source port of packets to be monitored.

Destination Port: The destination port of packets to be monitored.

Source IP Address Range: The source IP address or IP range of packets to be monitored.

Destination IP address Range: The destination IP address or IP range of packets to be monitored.

Upstream Rate Limit: This function allows you to limit the speed of IP traffic from LAN to WAN. The value entered will limit the speed of the application that you identified. The speed can be specified in multiple of 32kbps.



3.6.3.7 Virtual Server

When you click Virtual Server, you get the following figure.

Virtual	Server					
Port Mapping Table					IP Table	
Enable	Application	Protocol	External Port	Redire	ect Port	IP Address
	FTP	TCP	21	0	~ 0	192.168.1.
	Telnet	TCP	23	0	~ 0	192.168.1.
	SMTP	TCP	25	0	~ 0	192.168.1.
	HTTP	TCP	80	0	~ 0	192.168.1.
	POP3	TCP	110	0	~0	192.168.1.
	NNTP	TCP	119	0	~0	192.168.1.
	NTP	UDP	123	0	~0	192.168.1.
	HTTPS	TCP	443	0	~0	192.168.1.
	IKE	UDP	500	0	~0	192.168.1.
	T.120	TCP	1503	0	~ 0	192.168.1.
	H.323	TCP	1720	0	~0	192.168.1.
	PPTP	TCP	1723	0	~ 0	192.168.1.
	SIP	TCP/UDP	5060	0	~0	192.168.1.
	CUSeeMe	TCP	7648	0	~0	192.168.1.
		tcp 💌	0~0	0	~0	192.168.1.
		tcp 💌	0~0	0	~0	192.168.1.
		tcp 💌	0~0	0	~0	192.168.1.

Being a natural Internet firewall, this network router protects your network from being accessed by outside users. When it needs to allow outside users to access internal servers, e.g. Web server, FTP server, E-mail server or News server, this modem can act as a virtual server. You can set up a local server with specific a port number that stands for the service, e.g. Web (80), FTP (21), Telnet (23), SMTP (25), POP3 (110), When an incoming access request to the router for a specified port is received, it will be forwarded to the corresponding internal server.

For example, if you set the Service Port number 80 (Web) to be mapped to the IP Address 192.168.1.2, then all the http requests from outside users will be forwarded to the local server with IP address of 192.168.1.2. If the port is not listed as a predefined application, you need to add it manually.

DMZ: Regarding the DMZ Host, it is a local computer exposed to the Internet. Therefore, an incoming packet will be checked by the Firewall and NAT algorithms, then passed to the DMZ host when a packet is not sent by a hacker and not limited by the virtual server list.



If you have disabled the NAT option in the WAN-ISP section, this Virtual Server function will hence be invalid.

If the DHCP server option is enabled, you have to be very careful in assigning the IP addresses of the virtual servers in order to avoid conflicts. The easy way is that the IP address assigned to each virtual server should not fall into the range of IP addresses that are to be issued by the DHCP server. You can configure the virtual



server IP address manually, but it is still in the same subnet with the router.

3.6.3.8 Advanced

There are two items under the Advanced section, Static Routing, Dynamic DNS & Checking Emails.

3.6.3.8.1 Static Routing

Click on the **Static Routing** and then choose **Create IP V4Route** to get the below figure to add a routing table.

Static Route			
Create			
Destination			
Netmask			
via Gateway	or Interface	~	
Cost 1			
Cost 1			
Apply Cancel			

Destination: Enter the destination subnet IP.

Gateway: Enter the gateway IP address which the packet is forwarded to.

Netmask: Subnet mask of destination IP addresses based on above destination subnet IP.

Cost: This is the same meaning as Hop. Usually, leave it as 1.

Interface: Enter the interface, which the packet is forwarded to.





Static Rout	te			
Create				
Destination	192.168.2.1			
Netmask	255.255.255.0			
via Gateway	192.168.1.200	or Interface	iplan 💌	
Cost	1			
Apply Can	cel			

3.6.3.8.2 Dynamic DNS

Click **Dynamic DNS** to get the below figure then check the "Enable" button to access the Dynamic DNS service.

Parameters		
Dynamic DNS	⊙ Enable O Disable	
Dynamic DNS Server	www.dyndns.org (dynamic) 💌	
Domain Name	atlantisland.dyndns.org	
Usemame	username	
Password	•••••	
Period	28 Day(s) 🔽	

The Dynamic DNS service allows you to alias a dynamic IP address to a static hostname. This dynamic IP address is the WAN IP address. For example, to use the service, you must first apply for an account from this free Web server <u>http://www.dyndns.org/</u>. There are more than 8 DDNS servers supported.

- **Dynamic DNS:** Select the registered DDNS server.
- **Domain Name, Username and Password:** Enter the registered domain name, username and password.
- **Period:** Set the time period for the Router to exchange information with the DDNS server. In addition to update periodically according to this period setting, the Router will take the same action automatically whenever the assigned IP changes.

3.6.3.8.3 Check EMails

Click Checking Email to get the below figure then check the "Enable" button to access the service.



Check Email			
Parameters			
Check Email	⊙Enable O)isable	
Account Name			
Password	*		
POP3 Mail Server			
Period	60	minutes	
Dial-out for Checking Emails	🗌 Automatic		
Apply			

• **Disable:** Check to disable the ADSL Firewall Router from getting the email.

• Enable: Check to enable the ADSL Firewall Router to get the email by providing required information. Hence, the following fields will be activated and required.

Account Name: Enter the name of the account to which you have the POP access. Normally, it is the text in your email address before the "@" symbol. If you trouble with it, please contact with your ISP.

Password: Enter the password of the account

POP3 Mail Server: Enter your (POP) mail server name. If you have trouble with it, you would want to contact your ISP or your external mail server's administrator. For further assistance in tracking down this information, you will need to contact your Internet Service Provider or Network Administrator.

Interval: Enter the value in minute to check your email account periodically.

Automatically dial-out for checking emails: When the function is enabled, your ADSL Firewall Router router will connect to your ISP automatically to check emails if there is your Internet connection dropped. Please be careful when using this feature if your ADSL service is charged by time.

3.6.8.3.4 Device Management

Device Management: Is possible to move the door used for remote configuration of the router, is also possible to block access for a determined period of time and to a precise IP address (leaving instead 0,0,0,0 it is possible to configurate the Router from whichever IP). Is moreover possible Enable/Disable the function Universal Plug and Play and establish the door used for this service. Finally is possible to configure protocol SNMP.



Device Management					
Device Host Name					
Host Name	home, gateway				
Embedded Web Server					
* HTTP Port	80	(80 is default HTTP port)			
Management IP Address	0.0.0	(0.0.0.0' means Any)			
Expire to auto-logout	180	seconds			
Universal Plug and Play (U	JPnP)				
UPnP	⊙Enable ○Disable				
* UPnP Port 2800					
SNMP Access Control					
SNMP V1 and V2					
Read Community	public	IP Address 0.0.0.0			
Write Community	password	IP Address 0.0.0.0			
Trap Community		IP Address			
SNMP V3					
Usemame		Password			
Access Right	⊙ Read ORead/Write	IP Address			
* : This setting will become effective after you save to flash and restart the router.					

Apply

Embedded Web Server:

HTTP Port: This is the port number the router's embedded web server (for web-based configuration) will use. The default value is the standard HTTP port, 80. Users may specify an alternative if, for example, they are running a web server on a PC within their LAN.

Management IP Address: You may specify an IP address allowed to logon and access the router's web server. Setting the IP address to 0.0.0.0 will disable IP address restrictions, allowing users to login from any IP address.

Expire to auto-logout: Specify a time frame for the system to auto-logout the user's configuration session.

For Example: User A changes HTTP port number to 8081, specifies their own IP address of 192.168.1.55, and sets the logout time to be 100 seconds. The router will only allow User A access from the IP address 192.168.1.55 to logon to the Web GUI by typing: http://192.168.1.254:8081 in their web browser. After 100 seconds, the device will automatically logout User A.

Universal Plug and Play (UPnP):

UPnP offers peer-to-peer network connectivity for PCs and other network devices, along with control and data transfer between devices. UPnP offers many advantages for users running NAT routers through UPnP NAT Traversal, and on supported systems makes tasks such as port forwarding much easier by letting the application control the required settings, removing the need for the user to control advanced configuration of their device.

Both the user's Operating System and the relevant application must support UPnP in addition to the router. Windows XP and Windows Me natively support UPnP (when the component is installed), and Windows 98 users may install the Internet Connection Sharing client from Windows XP in order to support UPnP. Windows 2000 does not support UPnP.

- Disable: Check to disable the router's UPnP functionality.
- Enable: Check to enable the router's UPnP functionality.

UPnP Port: Its default setting is 2800. It is highly recommended for users to use this port value. If this value conflicts with other ports already being used you may wish to change the port.



Simple Network Management Protocol:

SNMP Access Control (Software on a PC within the LAN is required in order to utilize this function) SNMP V1 and V2:

- Read Community: Specify a name to be identified as the Read Community, and an IP address. This community string will be checked against the string entered in the configuration file. Once the string name is matched, user obtains this IP address will be able to view the data.
- Write Community: Specify a name to be identified as the Write Community, and an IP address. • This community string will be checked against the string entered in the configuration file. Once the string name is matched, users from this IP address will be able to view and modify the data.
- Trap Community: Specify a name to be identified as the Trap Community, and an IP address. This community string will be checked against the string entered in the configuration file. Once the string name is matched, users from this IP address will be sent SNMP Traps.

SNMP V3:

Specify a name and password for authentication. And define the access right from identified IP address. Once the authentication has succeeded, users from this IP address will be able to view and modify the data.

SNMP Version: SNMPv2c and SNMPv3

SNMPv2c is the combination of the enhanced protocol features of SNMPv2 without the SNMPv2 security. The "c" comes from the fact that SNMPv2c uses the SNMPv1 community string paradigm for "security", but is widely accepted as the SNMPv2 standard.

SNMPv3 is a strong authentication mechanism, authorization with fine granularity for remote monitoring.

Traps supported: Cold Start, Authentication Failure.

The following MIBs are supported:

- RFC 1213 (MIB-II): System group Interfaces group Address Translation group IP group ICMP group TCP group UDP group EGP (not applicable) Transmission SNMP group
- **RFC1650 (EtherLike-MIB):** dot3Stats
- **RFC 1493 (Bridge MIB):** . dot1dBase group dot1dTp group dot1dStp group (if configured as spanning tree)
- RFC 1471 (PPP/LCP MIB): • pppLink group pppLqr group
- RFC 1472 (PPP/Security MIB): • PPP Security Group)
- RFC 1473 (PPP/IP MIB):



PPP IP Group

- **RFC 1474 (PPP/Bridge MIB):** PPP Bridge Group
- RFC1573 (IfMIB): ifMIBObjects Group
- **RFC1695 (atmMIB):** atmMIBObjects
- RFC 1907 (SNMPv2): only snmpSetSerialNo OID

3.6.4 Save Configuration to Flash

After configuring this network router, you have to save all of the configuration parameters to FLASH.

3.6.5 Logout

To exit the website, choose Logout to exit completely. Please ensure that you have save the configuration settings before logout.





Chapter 4 Troubleshooting

If the ADSL Router is not functioning properly, you can refer first to this chapter for simple troubleshooting before contacting your service provider. This could save you time and effort but if the symptoms persist, then consult your service provider.

Problems Starting Up the ADSL Firewall Router

Problem	Corrective Action
None of the LEDs are	Check the connection between the adapter and the ADSL
on when you turn on	Firewall Router. If the error persists, you may have a
the ADSL Firewall	hardware problem. In this case you should contact technical
Router.	support.

Problems with the WAN Interface

Problem	Corrective Action
Initialization of the PVC connection failed.	Ensure that the cable is connected properly from the ADSL port to the wall jack. The ADSL LED on the front panel of the ADSL Firewall Router should be on. Check with your VPI, VCI, type of encapsulation and type of multiplexing settings are the same as what you collected from your telephone company and ISP. Reboot the ADSL Firewall Router. If you still have problems, you may need to verify these variables with the telephone company and/or ISP.

Problems with the LAN Interface

Problem	Corrective Action
Can't ping any station on the LAN.	Check the Ethernet LEDs on the front panel. The LED should be on for a port that has a station connected. If it is off, check the cables between your ADSL Firewall Router and the station. Make sure you have uninstalled any software firewall. Verify that the IP address and the subnet mask are consistent
	between the ADSL Firewall Router and the workstations.




APPENDIX A Specification

Technical Features	
Protocols	IP, NAT, PPTP, ARP, ICMP, DHCP(server, relay and client), PPTP client, RIP1/2, SNMP, SNTP client, UPnP, Telnet server
LAN port	RJ-45, 4 10/100Base-T ports
WAN port	RJ-11 (1 port ADSL/ADSL2)
Console port	RS232 DB9(9600,8,N,1,N)
External buttons	Reset, Power On/Off
LED Indicators	Power, System, Lan (4), WLAN, MAIL, PPP ed ADSL
Standard ADSL Compliance	ANSI T1.413 Issue 2, ITU-T G.992.1(Full Rate DMT), ITU-T
	G.992.2 (Lite DMT), ITU-T G.994.1 (Multimode)
Standard ADSL2	ITU G.992.3 (G.dmt.bis) (12Mbps download, 1Mbps upload)*
Compliance	
Protocols ADSL	RFC2364(PPPoA), RFC2516(PPPoE), RFC1577 e RFC1483
АТМ	ATM AAL2/AAL5 and ATM service class : CBR, UBR, VBR-
	rt, VBR, ATM Forum UNI 3.0, 3.1 and 4.0
Wireless	Standard IEEE802.11g and IEEE802.11b / Wi-Fi Protected
	Access (WPA) and WEP 64/128/ Intersil's Nitro Technology
	[higher overall performance in the real world environment]
Firewall	Intrusion Detection, DoS, Port Filters, URL blocking, MAC
	blocking
QoS	Quality of Service and IP Throttling
VPN	Accelerator DES/3DES, up to 16 VPN IPSec
Input Power	12V DC @ 1A
Power Consumption	< 10watts
Agency and Regulatory	CE
Dimensions	210 x 145 x 32 mm
Antenna	2*5dBi, external and removable Antenna (reverse SMA)
Weight	<350g
Operating Temperature	0° C to 40° C
Storage Temperature	-10°C to 70°C
Operating Humidity	5-95% non-condensing



APPENDIX B Support

Support

If you have any problems with the I-Fly Wireless ADSL Router, please consult this manual. If you continue to have problems you should contact the dealer where you bought this ADSL Router. If you have any other questions you can contact the Atlantis Land company directly at the following address:

Atlantis Land SpA Viale De Gasperi, 122 20017 Mazzo di Rho(MI) Tel: +39. 02.93906085, +39. 02.93907634(help desk) Fax: +39. 02.93906161

Email: <u>info@atlantis-land.com</u> or <u>tecnici@atlantis-land.com</u> WWW: <u>http://www.atlantis-land.com</u>



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http://golfingnear.com Email search by domain

http://emailbydomain.com Auto manuals search

http://auto.somanuals.com TV manuals search

http://tv.somanuals.com