

ADE-4120 ADSL Firewall Router

User's Manual



Download from Www.Somanuals.com. All Manuals Search And Download.

Copyright

Copyright (C) 2004 PLANET Technology Corp. All rights reserved.

The products and programs described in this User's Manual are licensed products of PLANET Technology, This User's Manual contains proprietary information protected by copyright, and this User's Manual and all accompanying hardware, software, and documentation are copyrighted.

No part of this User's Manual may be copied, photocopied, reproduced, translated, or reduced to any electronic medium or machine-readable form by any means by electronic or mechanical. Including photocopying, recording, or information storage and retrieval systems, for any purpose other than the purchaser's personal use, and without the prior express written permission of PLANET Technology.

Disclaimer

PLANET Technology does not warrant that the hardware will work properly in all environments and applications, and makes no warranty and representation, either implied or expressed, with respect to the quality, performance, merchantability, or fitness for a particular purpose.

PLANET has made every effort to ensure that this User's Manual is accurate; PLANET disclaims liability for any inaccuracies or omissions that may have occurred.

Information in this User's Manual is subject to change without notice and does not represent a commitment on the part of PLANET. PLANET assumes no responsibility for any inaccuracies that may be contained in this User's Manual. PLANET makes no commitment to update or keep current the information in this User's Manual, and reserves the right to make improvements to this User's Manual and/or to the products described in this User's Manual, at any time without notice.

If you find information in this manual that is incorrect, misleading, or incomplete, we would appreciate your comments and suggestions.

FCC Compliance Statement

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the instructions provided with the equipment, may cause interference to radio and TV communication. The equipment has been tested and found to comply with the limits for a Class A computing device in accordance with the specifications in Subpart B of Part 15 of FCC rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If you suspect this equipment is causing interference, turn your Ethernet Switch off and reappears when you turn it back on, there is interference being caused by the Ethernet Switch.

You can try to correct the interference by one or more of the following measures:

- w Reorient the receiving radio or TV antenna where this may be done safely.
- w To the extent possible, relocate the radio, TV or other receiver away from the Switch.
- **w** Plug the Ethernet Switch into a different power outlet so that the Switch and the receiver are on different branch circuits.

If necessary, you should consult the place of purchase or an experienced radio/television technician for additional suggestions.

CE mark Warning

The is a class B device, In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

Trademarks

The PLANET logo is a trademark of PLANET Technology. This documentation may refer to numerous hardware and software products by their trade names. In most, if not all cases, these designations are claimed as trademarks or registered trademarks by their respective companies.

Revision

User's Manual for PLANET ADSL Firewall Router: Model: ADE-4120A/B Rev: 1.0 (January 2004) Part No.: EM-AD4120

Table of Contents

CHAPTER 1. INTRODUCTION	1
1.1 AN OVERVIEW OF THE ADE-4120	1
1.2 PACKAGE CONTENTS	1
1.3 ADE-4120 Features	1
1.4 ADE-4120 Application	3
CHAPTER 2. USING THE ROUTER	4
2.1 CAUTIONS FOR USING THE ADE-4120	4
2.2 THE FRONT PANEL LEDS	4
2.3 THE REAR PORTS	5
2.4 CABLING	5
CHAPTER 3. CONFIGURATION	6
3.1 Before Configuration	6
3.2 CONNECTING THE ADE-4120	6
3.3 CONFIGURING PC IN WINDOWS	6
3.3.1 For Windows 98/ME	6
3.3.2 For Windows NT4.0	9
3.3.3 For Windows 2000	10
3.3.4 For Windows XP	12
3.4 FACTORY DEFAULT SETTINGS	14
3.4.1 Username and Password	14
3.4.2 LAN and WAN Port Addresses	
3.5 INFORMATION FROM THE ISP	15
3.6 Configuring with the Web Browser	16
3.6.1 Home	16
3.6.2 Setup	
3.6.2.1 Setup 1 System parameters	17
3.6.2.2 Setup 2 LAN parameters	17
3.6.2.3 Setup 3 WAN parameters	
3.6.2.5 Setup 5 Dial parameters	
3.6.2.6 Step 6 Confirm parameters	20
3.6.3 Basic	21
3.6.3.1 User profile	21
3.6.3.2 Log table display setting	22
3.6.3.3 Packet filter	
3.6.3.5 DHCP	23
3.6.3.6 Forward	24
3.6.3.6.1 Virtual Server	24
3.6.3.6.2 Port Forwarding	24
3.6.3.7 Multiple NAT and Multiple DMZ	25
3.6.3.8 DMZ	
3.6.3.9 DDNS	27
3.6.3.10 Save & Restart	27
3.6.4 Advance	
3.6.4.1 Static route	
3.6.4.3 Save & Restart	29 29
3 6 5 <i>I Itility</i>	30
3.6.5.1 System	
3.6.5.2 Firmware upgrade	31
3.6.5.3 Load default settings	31
3.0.5.4 Save & Restart	32 ??
	دد مد
APPENDIX A. SPECIFICATION	35

APPENDIX B. FAQ AND PRODUCT SUPPORT	36
APPENDIX C GLOSSARY	39

Chapter 1. Introduction

1.1 An Overview of the ADE-4120

The ADE-4120 ADSL Firewall Router provides office and residential users the ideal solution for securely sharing a high-speed ADSL broadband Internet connection on a 10/100Mbps Fast Ethernet backbone. It has built-in 4-port 10/100Mbps Ethernet switch for easily connecting to multiple PCs. They can support downstream transmission rates of up to 8Mbps and upstream transmission rates of up to 1Mbps. It is compliant with Multi-Mode standard (ANSI T1.413, Issue 2; G.dmt (G.992.1); G.lite (G992.2).

The products support PPPoA (RFC 2364 - PPP over ATM Adaptation Layer 5), RFC 1483 encapsulation over ATM (bridged or routed) and PPP over Ethernet (RFC 2516) to establish a connection with ISP. The products also support VC-based and LLC-based multiplexing.

They also serve as an Internet firewall, protecting your network from being accessed by outside users. Not only provide the natural firewall function (Network Address Translation, NAT), they also provide rich firewall features to secure a user's network. All incoming data packets are monitored and filtered per user's configuration. Besides, they can also be configured to block internal users from accessing to the Internet by user's IP or MAC address.

Furthermore, The PLANET ADE-4120 offers DDNS (Dynamic DNS) and Multiple NAT /DMZ functions which provide great convenience for user to build their own web/ftp server on private LAN.

1.2 Package Contents

- 1. One ADSL Firewall Router
- 2. One CD-ROM containing the on-line manual
- 3. One RJ-11 ADSL/telephone cable
- 4. One CAT-5 Ethernet cable
- 5. One AC-DC power adapter (output: 9V DC, min. 1.5A)
- 6. One Quick Installation Guide

1.3 ADE-4120 Features

ADE-4120 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 is compliant with Multi-Mode standard (ANSI T1.413, Issue 2; G.dmt (G.992.1); G.lite (G992.2).

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.

Multi-Protocol to Establish A Connection: Supports PPPoA (RFC 2364 - PPP over ATM Adaptation Layer 5), RFC 1483 encapsulation over ATM (bridged or routed) and PPP over Ethernet (RFC 2516) to establish a connection with the ISP. The product also supports VC-based and LLC-based multiplexing.

Network Address Translation (NAT): Allows multi-users to access outside resource such as Internet simultaneously with one IP address/one Internet access account.

Firewall: Supports SOHO firewall with NAT technology. The packet filtering is also supported for filter packets based on IP, MAC address and URL keywords.

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 http://www.dyndns.org/.

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 & DMZ: 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. 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 / MAC addresses, but also based on Port numbers.

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 user-friendly 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.

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 and WEB GUI through LAN or WAN ports to configure and manage a device.

1.4 ADE-4120 Application

Internet Connection with Firewall:

They are the perfect solution to connect a small group of PCs to a high-speed broadband Internet connection. Multi-users can have high-speed Internet access simultaneously. With their packet filter and access control function, the internal network is greatly secured.

Chapter 2. Using the Router

2.1 Cautions for using the ADE-4120



Do not place the ADE-4120 under high humidity and high temperature.

Do not use the same power source for ADE-4120 with other equipment.

Do not open or repair the case yourself. If the ADE-4120 is too hot, turn off the power immediately and have a qualified serviceman repair it.



Place the ADE-4120 on a stable surface. Only use the power adapter that comes with the package.

2.2 The Front Panel LEDs



ADE-4120

L	ED	Meaning
PWR		Lit when power ON
POST		Blinks when the device is booting
ADSL		Lit when successfully connected to an ADSL DSLAM
READY		Lit when the device is ready to use
LAN port	LNK/ACT	Lit when connected to Ethernet device
1~4		Blinks when data transmit/received
	100	Lit when connected at 100Mbps speed
	FDX/COL	Lit when connected at Full Duplex and blinks when there is collision.



ADE-4120

Port	Meaning
ADSL	Connect the supplied RJ-11 cable to this port when connecting to the ADSL/telephone network.
CONSOLE	Connect a RS-232 cable to this port when connecting to a PC's RS-232 port (9-pin serial port).
LAN 1 — 4 (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.
Reset	After the device is powered on, press it to reset the device or restore to factory default settings. The operation is as below: 0-4 seconds: reset the device 5 seconds or above: restore to factory default settings (this is used when you can not login to the router, e.g. forgot the password)
PWR	Connect the supplied power adapter to this jack.

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 ADE-4120 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 98/NT/2000/Me, 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 ADE-4120, either to configure the device, or for network access. These PCs must have an Ethernet interface installed properly, be connected to the ADE-4120 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 ADE-4120. The default IP address of the ADE-4120 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 ADE-4120. Also make sure you have UNINSTALLED any kind of software firewall that can cause problems 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 ADE-4120 To configure other types of workstations, please consult the manufacturer's documentation.

3.2 Connecting the ADE-4120

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

3.3 Configuring PC in Windows

3.3.1 For Windows 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
The following <u>n</u> etwork components are installed:
NE2000 Compatible
NetBEUL-> Dial-Up Adapter
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.

T	CP/IP Properties				?	×
	Bindings	Adv	anced	N	letBIOS	
	DNS Configuration	Gateway	WINS Confi	guration		52
	An IP address can If your network dow your network admi the space below.	be automat es not auton nistrator for a	ically assigned natically assign an address, ar	d to this (n IP addi nd then t	computer. resses, ask ype it in	
	🗩 🖸 Obtain an IP	address aut	omatically			
1	C Specify an IF	address:—				
	IP Address:					
	S <u>u</u> bnet Mas	k:				
				_		_
			OK		Cancel	

- 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 DNS Configuration	Advanced Gateway WINS Confi	NetBIOS iguration IP Address
Disable DNS Enable DNS	D <u>o</u> main:	
DNS Server Searc	+h Order	Add
Domain Suffix Sea	rch Order	A <u>d</u> d e <u>m</u> ove
	0	Cancel

3.3.2 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.

 NetBEUI Protocol NWLink IPX/SPX Compatible Transport NWLink NetBIDS TCP/IP Protocol Description: Transport Control Protocol/Internet Protocol. The default warea network protocol that provides communication across diverse interconnected networks. 	
Add Bemove Properties Upd Description: Transport Control Protocol/Internet Protocol. The default w area network protocol that provides communication across diverse interconnected networks.	
Add <u>Remove</u> <u>Properties</u> Upd Description: Transport Control Protocol/Internet Protocol. The default w area network protocol that provides communication across diverse interconnected networks.	
Add Remove Properties Upd Description: Transport Control Protocol/Internet Protocol. The default w area network protocol that provides communication across diverse interconnected networks.	
Add <u>Bemove</u> <u>Properties</u> Upd Description: Transport Control Protocol/Internet Protocol. The default w area network protocol that provides communication across diverse interconnected networks.	
Add <u>Remove</u> <u>Properties</u> <u>Upd</u> Description: Transport Control Protocol/Internet Protocol. The default w area network protocol that provides communication across diverse interconnected networks.	
Description: Transport Control Protocol/Internet Protocol. The default w area network protocol that provides communication across diverse interconnected networks.	ate
Transport Control Protocol/Internet Protocol. The default w area network protocol that provides communication across diverse interconnected networks.	
diverse interconnected networks.	ide

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

icrosoft ren in riop	erties			? :
IP Address DNS W	'INS Addre	ss R	outing	
An IP address can be by a DHCP server. If <u>j</u> ask your network adm the space below.	automatica your netwo inistrator fo	ally ass rk doe r an ac	igned to tł s not have Idress, an	nis network card e a DHCP server, d then type it in
Ada <u>p</u> ter: If your petwork adapte	ń			F
	-/			
• <u>O</u> btain an IP ad	dress from	a DHC	P server	
⊂ <u>S</u> pecify an IP ac	ddress —			
IP Address:	8	- 27	11	
S <u>u</u> bnet Mask:		2)	1	
S <u>u</u> bnet Mask: [Default <u>G</u> ateway: [*	2) 25		
S <u>u</u> bnet Mask: [Default <u>G</u> ateway: [+	2) 22	+	Advanced

3.3.3 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.

Connection	
Status:	Connected
Duration:	05:54:27
Speed:	10.0 Mbps
Activity Packets:	Sent — E Received 300 138
Properties	Disable

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

Local Area Connection 2 Properties
General Sharing
Connect using:
Realtek RTL8139(A) PCI Fast Ethernet Adapter
Configure
Components checked are used by this connection:
NWLink IPX/SPX/NetBIOS Compatible Transport Proto NetBEUI Protocol Internet Protocol (TCP/IP) Install Uninstall Properties Description 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.

e appropriate IP settings.	need to ask your network administrator for
Obtain an IP address aut	tomatically
O U <u>s</u> e the following IP add	ress:
[P address:	
Sybnet mask:	4 4 4 1 4 1 1 4 1 1 1 1 1 1 1 1 1 1 1 1
<u>D</u> efault gateway:	
 O<u>b</u>tain DNS server addre 	ess automatically
C Use the following DNS s	erver addresses:
Preferred DNS server:	
<u>A</u> lternate DNS server:	

3.3.4 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.

🕹 Local Area Co	nnection Status	? 🔀
General Support		
- Connection		
Status:		Connected
Duration:		00:05:34
Speed:		100.0 Mbps
Activity	Sent 🛐 -	- Received
Bytes:	1,403	1,749
Properties	Disable	
		Close

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

General	Authenticati	on Advanced		
Connec	ct using:			
B F	Realtek RTL8	139 Family PCI Fast EI	thernet NIC	
This co	nnection uses	s the following items:)
	Client for Mi	crosoft Networks	26.25 7.20 3.5	
	les int		20 M L 2 1	
	File and Prin	nter Sharing for Microse tocol (TCP/IP)	oft Networks	
	File and Prin Internet Pro	nter Sharing for Microso tocol (TCP/IP)	oft Networks	
	File and Prin	nter Sharing for Microso tocol (TCP/IP)	oft Networks	
	File and Prin	nter Sharing for Microso tocol (TCP/IP) Uninstall	oft Networks	
Desc Tran wide acro	File and Prin Internet Pro Install ription smission Cont area network ss diverse inte	nter Sharing for Micros tocol (TCP/IP) Uninstall rol Protocol/Internet P : protocol that provides erconnected networks.	oft Networks Properties rotocol. The defau s communication	s
I Desc Tran wide acro	File and Prir Internet Pro Install ription Ismission Cont area network ss diverse inte	nter Sharing for Microso tocol (TCP/IP) Uninstall rol Protocol/Internet P protocol that provides erconnected networks.	oft Networks Properties rotocol. The defau s communication	s) It
I Desc Tran wide acro	File and Prir Internet Pro Install ription semission Cont area network ss diverse inter w icon in notif	nter Sharing for Microse tocol (TCP/IP) Uninstall rol Protocol/Internet P protocol that provides protocol that provides protocol that provides fication area when cor	oft Networks Properties rotocol. The defau s communication	s

5. Select the Obtain an IP address automatically and the Obtain DNS server address automatically radio buttons

neral Alternate Configu	Iration
ou can get IP settings as nis capability. Otherwise, ne appropriate IP settings	ssigned automatically if your network supports you need to ask your network administrator for s.
Obtain an IP address	s automatically
🔘 Use the following IP	address:
IP address:	
Subnet mask:	
Default gateway:	· · · ·
💿 Obtain DNS server a	address automatically
○ Use the following DN	VS server addresses:
Preferred DNS server:	· · · ·
Alternate DNS server:	
	Advanced.

6. Click OK to finish the configuration.

3.4 Factory Default Settings

Before configurating this ADE-4120, you need to know the following default settings.

1. Web Configurator

Does not require user name and password

2. Device IP Network settings in LAN site

IP Address : 192.168.1.254 Subnet Mask : 255.255.255.0

3. ISP setting in WAN side

Bridge (RFC1483 bridge)

4. DHCP server

DHCP server is enabled. Start IP Address : 192.168.1.1 End IP Address : 192.168.1.100

3.4.1 Username and Password

The web interface does not require username and password by default. You can select "Basic" -> "User Profile" to enable the administrator authentication.



If you ever forget the password to log in, you may press the RESET button for more than 5 seconds 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	The Bridge function is enabled by default.
Subnet Mask	255.255.255.0	
DHCP server function	Enabled	
IP addresses for distribution to PCs	100 IP addresses continuing from 192.168.1.1 through 192.168.1.100	
	(Actually, it can support up to 253 users.)	

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, or DHCP client.

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

Service Type	Need NAT / IP Sharing?	Mode Selection	Data needed
RFC1483 Routed and the static IP address	No	Router	wVPI/VCI of WAN wIP address /subnet mask of WAN wThe computers are set the fixed assigned IP address
RFC1483 Bridge mode plus PPPoE	No	Bridge	wVPI/VCI of WAN wPPPoE software installed on PC wuser's name & password for PPPoE
RFC1483 Routed and the global IP address	Yes	NAT	wVPI/VCI of WAN wIP address /subnet mask of WAN
RFC1483 Bridge and the global IP address	Yes	NAT2	wVPI/VCI of WAN wIP address /subnet mask /Gateway of WAN
RFC1483 Bridge mode plus PPPoE	Yes	PPPoE+NAT	wVPI/VCI of WAN wuser's name & password for PPPoE
RFC2364 mode	Yes	PPPoA+NAT	wVPI/VCI of WAN wuser's name & password for PPPoA
RFC1483Bridge & DHCP client	Yes	DHCPc + NAT	wVPI/VCI of WAN

3.6 Configuring with the Web Browser

Open the web browser, enter the local port IP address of this ADE-4120, which defaults at **192.168.1.254**, and click "**Go**", you will get a function overview page when login successfully.

3.6.1 Home



At the "Home" function page, the top navigation pane provides links to the desired setup page. The left navigation pane provides the detail explanations of the available configuration of each option on the top pane. This page also provides icons for different language interfaces. Currently we support "English" and "German".

Please click on the desired item on top navigation pane to go to the function page.

3.6.2 Setup

Click on the Setup button on the top pane, you will go to the quick setup wizard page.



3.6.2.1 Setup 1 System parameters

Select the operating mode in Setup1 page of web configuration server as follows: You can get these modes from your ISP. Please check section 3.5 for detail. After you select the mode you want, please click "Next" to continue.

🗿 ADSL Router Remote Manag	ement and Configuration - Microsoft Internet Explorer		
File Edit View Favorites To	ols Help		
😋 Back 🔹 🕥 🛛 💌 😰	🚯 🔎 Search 🧙 Favorites 🜒 Media 🚱 🍰		
Address 🕘 http://192.168.1.254/			🔽 🔁 Go 🛛 Links 🎽
PLANE Networking & Command	ADSL Firewa	ll Router	
	Home Setup Basic A	dvance Utility Monitor	
Quick Setup	Quicl	c Setup - Step 1	
Network Status Bridge	Please fill in the following parameters		
Disconnected	Mode WAN	LAN	
	Router RFC1483Routed	DHCP server enabled & global IP address	
	Bridge RFC1483Bridge	DHCP server enabled	
Setup1	NAT RFC1483Routed & global IP add	Iress DHCP server enabled	
Fill in system parameters	NAT2 RFC1483Bridge & global IP add	ress DHCP server enabled	
Setup2	PPPoE+NAT RFC1483Bridge & RFC2516	DHCP server enabled	
Fill in LAN parameters or IP address to have access to	PPPoA+NAT RFC2364	DHCP server enabled	
the router's veb server in bridge mode	DHCPc+NAT RFC1483Bridge & DHCP clier	t DHCP server enabled	
Setup 3 Fill in WAN parameters	Please contact your ISP for more inform	ation.	
	Router OBridge	ONAT ONAT2	
Setup4 Fill in ATM VC parameters	Operating mode: OPPPoE+NAT OPPF	OA+NAT ODHCPC+NAT	
Setup5			
Fill in dial parameters	Nex	Cancel Help	
Setups Confirm parameters you've filled in before.			
E Done			🐨 Internet

3.6.2.2 Setup 2 LAN parameters

Configure the following values into the ADSL Router's Setup page. Not everyone will require the following settings. Check with your ISP.

LAN IP Address and subnet mask: These values refer to the internal network you are

creating with your ADSL Router. Unless you have specific internal needs or in the router mode, there should be no reason to change these values.

Please check with your ISP to see if you need to enter Router & Domain Names to be viewed by your ISP's network. If you do, click on your Start button. Choose Control Panel, then double-click the Network icon. Choose the Identification tab. There will be a Computer Name and a Workgroup name displayed here. Enter the Computer Name into the Router Name box on the Setup Page, and enter the Workgroup name into the Domain Name box on the Setup Page.

After you complete the settings of this page, click "Next" to continue.

PLANE Networking & Commanie	ADS	L Firev	all Router
	Home	Jp Basic	Advance Utility Monitor
Quick Setup		Qı	uick Setup - Step 2
Network Status Bridge	Please fill in the fo	llowing parame	ters:
Disconnected	 LAN parameters 	:	
	IP Address:	192.168.1.254	
	Net Mask:	255.255.255.0	
Fill in system parameters	Host Name:	ade	
<u>Setup2</u> Fill in LAN parameters or IP	Domain Name:	planet.com.tw	
address to have access to the router's web server in			
bridge mode	-	Next	Back Cancel Help
Setup3		- Heat	
Fill in WAN parameters			
Setup 4 Fill in ATM VC parameters			
Setups Fill in dial parameters			
<u>Setupő</u> Confirm parameters you've filled in before.			

3.6.2.3 Setup 3 WAN parameters

These values refer to the outside network you connect to every time you access your Broadband Internet connection. Most ADSL ISPs assign their clients with a different IP address via PPPoE or PPPoA each time they log on. If this is the case with your ISP, you should set PPPoE+NAT or PPPoA+NAT mode at previous step 1. You can setup PPPoE or PPPoA activity time, the router will log off when the idle time up. Click "Next" to continue.



3.6.2.4 Setup 4 VC parameters

You should check with your ISP for VPI/VCI and AAL5 Encapsulation for ATM VC parameter. After you complete the settings of this page, click "Next" to continue.

PLANE Networking & Community	ADSL Firewall Router
Guick Setup	Home Setup Basic Advance Utility Monitor
Network Status Bridge Disconnected Setup1	Please fill in the following parameters: • ATM VC parameters: Please contact your ISP for more information. • VPI/VCI: 8 / 35 • ALS Enconsulation: C YCMUX 6 H C
Fill in system parameters <u>Setup2</u> Fill in LAN parameters or IP address to have access to the router's web server in bridge mode Setup3	Next Back Cancel Help
Fill in WAN parameters <u>Setup 4</u> Fill in ATM VC parameters <u>Setup 5</u> Fill in dial parameters	
Setup6 Confirm parameters you've filled in before.	

3.6.2.5 Setup 5 Dial parameters

You should give user's name and password if you select PPPoE+NAT or PPPoA+NAT mode in step 1. If you select other mode, this page will not show. Click "Next" to continue.

PLANE Instruction & Communication	ADSL Firewall Router
	Home Setup Basic Advance Utility Moniton
Quick Setup	Quick Setup - Step 5
Network Status ^{Bridge} Disconnected	Please fill in the following parameters: ISP parameters: Please contact your ISP for more information. Username
<mark>Setup 1</mark> Fill in system parameters	Password
Setup2 Fill in LAN parameters or IP address to have access to the router's web server in bridge mode	Next Back Cancel Help
Setup 3 Fill in WAN parameters	
<u>Setup 4</u> Fill in ATM VC parameters	
Setup5 Fill in dial parameters	
Setup6 Confirm parameters you've filled in before.	

3.6.2.6 Step 6 Confirm parameters

This page shows all the settings you have configured. Please click "Finish" button to complete your settings.



The "Save Configuration & Restart System" page is shown. Click "Save" to save the new configuration. The router will restart automatically.

PLANE Hatworking & Comman	ADSL Firewall Router
	Home Setup Basic Advance Utility Monitor
Guick Setup	Quick Setup - Save Configuration & Restart System
Network Status ^{Bridge} Disconnected	This page offers you the opportunity to save the new configuration and restart your router. To update the configuration, you must click on the 'save' button and the router will restart automatically.
<mark>Setup 1</mark> Fill in system parameters	<i>II</i>
Setup2 Fill in LAN parameters or IP address to have access to the router's web server in bridge mode	Please click on the 'save' button to save the new configuration, and the router will restart automatically.
Setup3 Fill in WAN parameters	
<u>Setup4</u> Fill in ATM VC parameters	
<u>Setup5</u> Fill in dial parameters	
Setup6 Confirm parameters you've filled in before.	

3.6.3 Basic

The basic configurations are listed these functions in common use for the ADSL Router system. Please link to the specific feature page to set these parameters.

3.6.3.1 User profile

This page allows you to set the Username and Password to prevent improper accessing from un-authorized users. It also allows you to enable or disable remote management.

PLANS Networking & Commer	ADSL Firewall Router
	Home Setup Basic Advance Utility Monitor
Basic Config	Basic Configuration - User profile
Network Status Bridge	Please fill in the parameters for Telnet/Web/Console:
Disconnected	 User profile for management: If this is the first time you set up the router, type adsl as the User Name and User Password.
	User name: ads
User profile of web, telnet, console and remote management.	Password confirm:
Log table display setting Incoming and outgoing log table settings	Authorization requirement for management C Enable Disable
Packet filter Packet filter parameter settings	Remote Management ICMP C Enable C Disable
User access control User access control parameters setting	Telnet C Enable © Disable Web C Enable © Disable Port
DHCP Allocate address entry for DHCP server.	Finish Reset Help
Forward Port forwarding settings.	
Multiple NAT and multiple DMZ	1

3.6.3.2 Log table display setting

The packet log setting allows the display of the incoming and outgoing data on the MONITOR. Check the box to enable log table then you can find the record on the "Monitor".



3.6.3.3 Packet filter

The router provides two filter functions: LAN to WAN and WAN to LAN. Please click the function you need. If you select LAN to WAN, you can add the IP address, IP range, Port range, Mac address of the local PC to access the Internet. You can also use URL keywords to prevent accessing some website by local users. The WAN to LAN filter is to prevent some WAN side IP addresses to access your local PCs.



3.6.3.4 User access control

You can fill in the LAN IP address, MAC address and port range to limit the Internet access of the local user.



3.6.3.5 DHCP

DHCP (Dynamic Host Configuration Protocol) allows you to automatically assign IP addresses to client stations logging onto a TCP/IP network. It eliminates the need to manually assign permanent IP addresses. This ADSL router also allows host with fixed IP. You can key in the host MAC Address in the table below.

CREATER AUSL Firewall Router			
	Home Setup Basic Advance Utility Moniton		
Basic Config	Basic Configuration - DHCP Parameter		
Network Status ^{Bridge} Disconnected	Configure following DHCP parameter. Click on the 'Add', 'Delete' or 'Modify' button to change fixed DHCP host entries. Or change the general DHCP parameter and click on 'Finish' button to submit it.		
	General Drice parameter. Transer DRCP service: (C.Essele. C.Dissele.		
<u>User profile</u>	Default Catoway 102 169 1 264		
User profile of web, telnet, console and remote	Net Mask: 255.255.0		
management.	Name Server 1: 168 95 192 1		
table settings	Name Server 2: [168.95.1.1		
	Name Server 3:		
Packet filter parameter	DHCP Start IP: 192.168.1, 1		
settings.	DHCP End IP: 100 150 1 100		
User access control User access control parameters setting	Lease Time: 3 day 0 hour 0 min		
DHCP Allocate address entry for DHCP server.	Table of fixed host entries: Index Ethernet address (ex. 00-05-00-00-3b-00) Internet address		
Forward Port forwarding settings.	1 192.168.1.		
Multiple NAT and multiple DMZ	Add		

3.6.3.6 Forward

This page allows you to setup up the public services on your network. It provides three sub-functions: Virtual Server, Prot forwarding and Port Triggering.



3.6.3.6.1 Virtual Server

Please fill in the IP address and enable the server. The Preset Applications are among the most widely used Internet applications.

	Ication	ADSL	Fir	<mark>BW8</mark>	III Rou	ter		
Basic Config	Hor	ne Setup Basic C	enfig	isic a (,	Advance) 🗾	tility	Monit	or) parameters
Network Status _{Bridge} Disconnected	Virtua Please f applicat	I server mappir fill in the IP address ions.	ng and enabl :	e the serv	er. The Preset App	lications a	re among	the most widely used Intern
<mark>User profile</mark> User profile of web, telnet,	Index	Application Name	Protocol	Ext. Port	IP Address	Int. Port	Enable	
console and remote management.	1	FTP	TCP -	21	192.168.1.	21		
Log table display setting	2	Telnet	TCP -	23	192.168.1.	23		
Incoming and outgoing log table settings	3	HTTP	TCP -	80	192.168.1.	80		
Packet filter Packet filter parameter	4	NetMeeting	TCP -	1720	192.168.1.	1720		
settings.	5		TCP -		192.168.1.			
<mark>User access control</mark> User access control	6		TCP -		192.168.1.			
parameters setting	7		TCP -		192.168.1.		Г	
DHCP Allocate address entry for	8		TCP -		192.168.1.			
HCP server.	9		TCP -		192,168,1			
Forward Port forwarding settings.	10		TCP -		192.168.1.			
Multiple NAT and multiple DMZ Mapping multiple NAT and multiple DMZ settings.								
DMZ	-			Fin	Cancel	Help		

3.6.3.6.2 Port Forwarding

Please select the Network service protocol type, fill in the service parameters and enable this service. Click on the 'Finish' button to save and return to the previous page.

PLAN Retworking & Comm	e	Tion	AL	<mark>ISL F</mark> i	re v	vall	Route	1	
		Hor	ne	Setup	Basic	Adv	ance Utility	Mo	nitor
Basic Config			Bas	sic Confi	gura	tion -	Port Forw	ardi	ng Parameter
Network Status ^{Bridge} Disconnected	4	Confiç Please s 'Finish' t • Te	gure Vir select the outton to able of cu	tual Server N Network service save and return Irrent virtual se	Mappin protoco to the p erver ent	g I type, fill i revious pai :ries:	n the service parame ge.	eters and	enable this service. Click on the
User profile User profile of web, telnet,		Index	Protocol	Service Name	Port r	number	Server IP Address	Enable	
console and remote management.		1	Both 💌			~	192.168.1.		
Log table display setting		2	Both 💌			~	192.168.1.		
table settings		3	Both 💌			~	192.168.1.		
Packet filter Packet filter parameter		4	Both 💌			~	192.168.1.		
settings.		5	Both 💌			~	192.168.1.		
User access control User access control		6	Both 💌			~	192.168.1.		
parameters setting		7	Both 💌			~	192.168.1.		
Allocate address entry for DHCP server.		8	Both 💌			~	192.168.1.		
		9	Both 💌			~	192.168.1.		
Port forwarding settings.		10	Both 💌			~	192.168.1.		
Multiple NAT and multiple DMZ Mapping multiple NAT and multiple DMZ settings.									
	-					Finish	Cancel He	elp	

3.6.3.6.3 Port Triggering

The Router will watch the outgoing data for specific port. If the PC behind the router sends the data witch is matching the 'Port Triggering table' through the router, the router will record it. When the requested incoming data returns, the router will send it to the PC by way of Port Triggering table rule.

PLAN Networking & Comme	ST	ADSL Fi	irewall	Router		
	Home	Setup	Basic Adva	nce Utility	Monito	
Basic Config		Basic Confi	guration -	Port Trigge	ring p	parameters
Network Status ^{Bridge} Disconnected	Port Trig The Router the 'Port Tr router will s	gering mapping will watch the outgoin ggering table' through end it to the PC by w Friggering Table:	ng data for specific p n the router, the rout ay of Port Triggering	ort. If the PC behind the er will record it. When t table rule.	e router se he reques	ends the data witch is matching ted incoming data returns, the
User profile of web, telnet,	Inde	x Application Name	Trigger Port Range	Incoming Port Range	Enable	
management.	1	MSN Game Zone	28800 ~ 29000	2300 ~ 2400		
Log table display setting	2	MSN Game Zone	28800 ~ 29000	28800 ~ 29000		
Incoming and outgoing log table settings	3	MSN Game Zone	28800 ~ 29000	47624 ~ 47624		
hite control	4	Battle.net	6112 ~ 6112	6112 ~ 6112		
Packet filter parameter	5	Quick Time	554 ~ 554	6970 ~ 6999		
sectings.	6		~	~		
User access control User access control parameters setting	7					
DUCD	8		~	~		
Allocate address entry for DHCP server.	9		~	~		
Forward Port forwarding settings.	10		~	~		
Multiple NAT and multiple DM2						
Mapping multiple NAT and multiple DMZ settings.			Finish	Cancel Help	0	

3.6.3.7 Multiple NAT and Multiple DMZ

If your ADSL account within multi-real IP Addresses then Multi-Global IP mapping function is a useful feature for Internet application. The Multi-Global IP mapping function

helps you dividing the client PCs on the LAN into several groups and each group access Internet through one real IP Address. You also can set single local IP Address map to single Global IP Address. Thus it empowers the management and provides much wider application over ADSL line.

PLAN Natworking & Comm	ADSL Firewall Router
	Home Setup Basic Advance Utility Monitor
Basic Config	Basic Configuration - multiple NAT and multiple DMZ Parameter
Bridge Disconnected	Configure multiple NAT and multiple DMZ Mapping. Click on the 'Delete' or 'Modify' button to delete or modify the multiple NAT and multiple DMZ entry. Please input the new local IP address and global IP address then click on the 'Add' button to add entry. Click on the 'Finish' button to save
Packet filter Packet filter parameter settings:	Mapping multiple NAT
User access control User access control parameters setting	ID IP Address range Global IP Address 1 192.168.1. ~ ~
DHCP Allocate address entry for DHCP server.	Add
Forward Port forwarding settings.	Mapping multiple DMZ Docal IP Address Global IP Address sector 1 and 1
Multiple NAT and multiple DMZ Mapping multiple NAT and multiple DMZ settings.	Add
DMZ DMZ settings	Finish Reset Help
DDNS DDNS Setup	
Saving the new parameters and restart the router with new settings.	

3.6.3.8 DMZ

You can set one DMZ host in the DMZ parameter to expose all ports of the internal user to the Internet.

PLANE Networking & Comman	I ADSL Firewall Router
Basic Config	Home Setup Basic Advance Utility Monitor Basic configuration - DMZ parameter
Network Status ^{Bridge} Disconnected	Configure DMZ host setting. The DMZ setting exposes an internal user to the Internet. • DMZ Setting
Packet filter Packet filter parameter settings.	DMZ Setup enable 192.168.1.
User access control User access control parameters setting	Finish Reset Help
DHCP Allocate address entry for DHCP server.	
<mark>Forward</mark> Port forwarding settings.	
<u>Multiple NAT and multiple</u> <u>DM2</u> Mapping multiple NAT and multiple DM2 settings.	
DMZ settings	

3.6.3.9 DDNS

DDNS(Dynamic DNS) service points a fixed hostname to a dynamic WAN IP address or static IP address, allowing your computer to be accessed from various locations on the Internet without knowing your current IP. With a DDNS connection you can host your own web site, email server, FTP site and more at your own location. The DDNS service is provided by DynDNS.org, you need to register a domain name in www.dyndns.org before configuring DDNS. The Router will check the domain name by asking the DNS every day by default, and every 28 days to updating to DDNS server.

PLANE Retworking & Communi	ADSL Firewall Router
	Home Setup Basic Advance Utility Monitor
Basic Config	Basic Configuration - DDNS parameters
Network Status ^{Bridge} Disconnected	Configure DDNS Setting. DDNS(Dynamic DNS) service points a fixed hostname to a dynamic WAN IP address or static IP address, allowing your computer to be accessed from various locations on the Internet without knowing your current IP. With a DDNS connection you can host your own web site, email server, FTP site and more at your own location. The DDNS service is provided by DynONS.ord, you need to register a domain name in <u>www.dyndns.ord</u> before configuring DDNS. The Router
Packet filter Packet filter parameter settings.	will check the domain name by asking the DNS every day by default, and every 28 days to updating to DDNS server.
User access control User access control parameters setting	Host Name ath.cx
DHCP Allocate address entry for DHCP server.	Password Check Time 1 day
Forward Port forwarding settings. Multiple NAT and multiple DM2 Mapping multiple NAT and	Not Connected !
DMZ DMZ settings	Finish Reset Help
DDNS Setup	

3.6.3.10 Save & Restart

This page offers you the opportunity to save new configurations and restart your router. To update the configuration, the server must be restarted. When you click on the 'Save' button, the router will restart and your browser session will be disconnected. It may appear that your browser session doesn't work. When the ADSL Router restarts after a few seconds, you can click on the 'Reload' button, or close your browser and then reopen it.

Please click on the 'save' button to save the new configuration, and the router will restart automatically.

PLAN Betworking & Comm	ADSL Firewall Router
Basic Config	Home Setup Basic Advance Utility Monitor Basic Configuration - Save Configuration & Restart System
Network Status ^{Bridge} Disconnected	This page offers you the opportunity to save new configurations and restart your router. To update the configuration, the server must be restarted. When you click on the 'Save' button, the router will restart and your browser session will be disconnected. It may appear that your browser session doesn't work. When the ADSL Router restarts after a few seconds, you can click on the 'Reload' button, or close your browser and then re-open it.
Packet filter Packet filter parameter settings.	
User access control User access control parameters setting	Please click on the 'save' button to save the new configuration, and the router will restart
Allocate address entry for DHCP server.	automatically. Save Help
Port forwarding settings.	
Mapping multiple NAT and multiple DMZ settings.	
DMZ DMZ settings DDNS	
DDNS Setup Save & rostart Saving the new parameters and restart the router with new settings.	v

3.6.4 Advance

This function allows you to make routing configuration.

3.6.4.1 Static route

You may set up a static route if you want to connect your router to more than one network. A static route is a pre-determined path that network information must reach a specific host or network.

PLANE Networking & Community	ADSL Firewall Router
	Home Setup Basic Advance Utility Monitor
Advance	Advance Configuration - Static Route Parameter
Network Status ^{Bridge} Disconnected	Setting static route entry Click on the 'Delete' or 'Modify' button to delete or modify the static route entry. Input the new static route and click on the 'Add' button.
	Table of current static route entries:
Configure static route parameters.	Index Network Address Subnet Mask Gateway
RIP Configure RIP parameters.	Add
Save & restart Saving the new parameters and restart the router with new settings.	Finish Help

3.6.4.2 RIP

RIP (Routing Information Protoco allows a router to exchange routing information with other routers. The RIP Direction field controls the sending and receiving of RIP packets.

The RIP version field controls the format and the broadcasting method of the RIP packets that the Router sends (it recognizes both formats when receiving). RIP-1 is universally supported, but RIP-2 carries more information. RIP-1 is probably adequate for most networks, unless you have an unusual network topology.

PLANS Batwerking & Comman	ADSL Firewall Router
	Home Setup Basic Advance Utility Monitor
Advance	Advanced Configuration - RIP Parameter of Interface
Disconnected	Setting RIP parameters You can change the general RIP parameter or you can select one interface index and click on the 'Modify' button.
	General RIP Parameters
Static Route	RIP mode: © Disable C Enable
parameters.	Auto RIP summary: O Disable C Enable
Configure RIP parameters.	 Table of current interface RIP parameters:
Save & restart	Interface RIP Version Authentication Poison Authentication
Saving the new parameters and restart the router with new settings	CLAN Disable 2 None Enable None
inch seconds.	C ATM1 Disable 2 None Enable None
	Finish Modify Reset Help

3.6.4.3 Save & Restart

This page offers you the opportunity to save new configurations and restart your router. To update the configuration, the server must be restarted. When you click on the 'Save' button, the router will restart and your browser session will be disconnected. It may appear that your browser session doesn't work. When the ADSL Router restarts after a few seconds, you can click on the 'Reload' button, or close your browser and then reopen it.

Please click on the 'save' button to save the new configuration, and the router will restart automatically.



3.6.5 Utility

This function provides you the system information, status and firmware upgrade.



3.6.5.1 System

This page provides you the general system information including firmware version.

PLANE Bistworking & Communication	ADSL Firewall Router
	Home Setup Basic Advance Utility Moniton
Utility Setup	Utility - General System Information
Network Status	General system information
Disconnected	Product Model: ADSL Router
	Firmware Version: Version 2.9b4
Noncome.	CPU: MPC850 at 48MHz
	RAM: 4MB
the system.	Flash: 2MB
The second second second	Chipset: ALCATEL MTC150
Upgrade the ADSL Router	Host Name:
with a new firmware release.	Domain Name:
Noncert Increases	Primary DNS: 168.95.192.1
Load default settings Reset system configuration to default status.	Secondary DNS: 108.95.1.1
Save & restart Saving the new parameters and restart the router with new settings.	Finish Refresh Help

3.6.5.2 Firmware upgrade

This page allows you to upgrade the firmware through TFTP server. Please note that you have to setup a TFTP server first and store that firmware file on the TFTP server directory.

After you have clicked on the 'OK' button, please wait for a while during the transfer of the files. Please note that if you upgrade the "All images", it will take almost two minutes. The LED light will flash until the upgrade is finished. Please also never turn off or restart the ADSL Router during the upgrade status.

PLANE Notworking & Communication	I ADSL Firewall Router
	Home Setup Basic Advance Utility Monitor
Utility Setup	Utility - Firmware Upgrade
Network Status Bridge	Please fill in the following parameters to upgrade the firmware:
Disconnected	Upgrade Mode & TFTP Parameters:
System List the version, status of the sustem	After you have clicked on the 'OK' button, please wait for a while during the transfer of the files. (Notes: If you upgrade the "All images", it will take almost two minutes. The LED light will flash until the upgrade is finished. Never turn off or restart the ADSL Router during the upgrade status.)
/Firminara ungrada	Upgrade mode: All images
Upgrade the ADSL Router with a new firmware release,	TFTP Server IP Address: 192.168.1.53
Load default settings	Upgrade Filename: CODES.IMG
Reset system configuration to default status.	Keep User's setting: C Enable C Disable
Save & restart Saving the new parameters and restart the router with new settings.	
	OK Cancel Help

3.6.5.3 Load default settings

This page allows you to load the factory default settings. When you click on the 'OK' button, your ADSL Router will load the default settings and restart. When the ADSL

Router is restarted, your browser session will be disconnected. It may appear that your browser session doesn't work. When the ADSL Router restarts after a few seconds, you can input the default IP address (http://192.168.1.254) to open the web interface again.

ADSL Firewall Router				
	Home Setup Basic Advance Utility Monitor			
Utility Setup	Utility - Load Default Setting			
Network Status ^{Bridge} Disconnected	This page allows you to load the factory default settings When you click on the 'OK' button, your ADSL Router will load the default settings and restart. When the ADSL Router is restarted, your browser session will be disconnected.It may appear that your browser session doesn't work. When the ADSL Router restarts after a few seconds, you can click on the 'Reload' button, or close your browser and then re-open it.			
System List the version, status of the system. Firmware upgrade Upgrade the ADSL Router with a new firmware release.	Ш			
Load default settings Reset system configuration to default status. Save R restart Saving the new parameters and restart the router with new settings.	OK Cancel			

3.6.5.4 Save & Restart

This page offers you the opportunity to save new configurations and restart your router. To update the configuration, the server must be restarted. When you click on the 'Save' button, the router will restart and your browser session will be disconnected. It may appear that your browser session doesn't work. When the ADSL Router restarts after a few seconds, you can click on the 'Reload' button, or close your browser and then reopen it.

Please click on the 'save' button to save the new configuration, and the router will restart automatically.



3.6.6 Monitor

This function is used to monitor the Network status or the status of the ADSL Router. The available options depend on your operation mode. Click on the icon in the left window then the table will pop up.



Chapter 4. Troubleshooting

If the ADE-4120 ADSL Firewall 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 ADE-4120

Problem	Corrective Action
None of the LEDs are on when you turn on the ADE-4120	Check the connection between the adapter and the ADE-4120. If the error persists, you may have a hardware problem. In this case you should contact technical 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 ADE-4120 should be on. Check that 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 ADE-4120. 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 LNK/ACT 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 ADE-4120 and the station. Make sure you have uninstalled any software firewall.
	Verify that the IP address and the subnet mask are consistent between the ADE-4120 and the workstations.

Appendix A. Specification

Produ	ct	ADSL Firewall Router	
Model		ADE-4120A / ADE-4120B	
Hardw	vare		
Standard		ANSI T1.413 Issue 2	
		ITU G.992.1 (G.dmt) including	
		- Annex A (ADSL over POTS for ADE-4120A)	
		- Annex B (ADSL over ISDN for ADE-4120B)	
		G.992.2 (G.lite) with fast retrain	
Protocol		RFC 2364 - PPP over ATM (LLC/VCMUX)	
		RFC 2516 - PPP over Ethernet (LLC/VCMUX)	
		RFC 1577 - Classic IP over ATM (LLC/VCMUX)	
		RFC 1483 - Bridged IP over ATM (LLC/VCMUX)	
		RFC 1483 - Routed IP over ATM (LLC/VCMUX)	
Interop	perability	Interoperable with major DSLAM suppliers	
Ports	LAN	4 (10Base-T/100Base-TX, Auto-Negotiation, Auto MDI/MDI-X)	
	WAN	1 (RJ-11, 10/100Base-TX, Auto-Negotiation)	
LED Ir	ndicators	PWR, SYS, ADSL, READY and LNK/ACT, 100, FDX/COL for LAN	
		1 to 4	
Button		1 for reset/factory reset	
Console		1 x RS-232 Console	
Software			
Protoc	ol	IP, NAT, ARP, ICMP, DHCP, PPPoE, PPPoA, RIP1/2	
Security		Native NAT firewall, Enhanced packet filter, URL Filter, Virtual	
		Server, DMZ	
Management		Web browser management, telnet, console	
Enviro	nment Specifica	ation	
Dimen	sion (W x D x	184 mm x 143 mm x 35 mm	
H)	,		
Power		9V DC, 1.5A	
Power Consumption		Maximum 10W, 34 BTU	
Temperature		0~40 degree C (operating), -10~70 degree C (storage)	
Humidity		5%~ 95% (non-condensing)	
Emission		EMI: FCC part 15, CE	

Appendix B. FAQ and Product

Support

Most problems can be solved by using the *Troubleshooting* in Chapter 4 and the following FAQ. If you cannot resolve the problem, please contact the dealer where you purchased this product. For any other questions, please contact **PLANET** directly at the following email address: <u>support@planet.com.tw</u>. You can also download upgraded driver or software utilities for free from PLANET's website at <u>http://www.planet.com.tw</u>

What should I do when I forgot the user's name and password of management?

For security reason you should assign a password to protect your router against hacker attacks. When you forgot the user's name and password, you can do the procedure of Backup configuration file,

What is the maximum number of IP addresses that the ADSL Router will support? The Router will support to 253 IP addresses with NAT mode.

Where is the ADSL Router installed on the network?

In a typical environment, the Router is installed between the ADSL line and the LAN. Plug the ADSL Router into the ADSL line on the wall and Ethernet port on the Hub (switch or computer).

What is Network Address Translation and what is it used for?

Network Address Translation (NAT) translates multiple IP addresses on the private LAN to one public address that is sent out to the Internet. This adds a level of security since the address of a PC connected to the private LAN is never transmitted on the Internet. Furthermore, NAT allows the ADSL Router to be used with low cost Internet accounts which only one TCP/IP address is provided by the ISP.

The user may have many private addresses behind this single address provided by the ISP. Does the ADSL Router support any operating system other than Windows 95/98/2000/Me, or Windows NT?

Yes, it provides technical support for setup, configuration or trouble shooting of any nonwindows operating systems.

How do I get Napster to work with the Router?

Napster is fully compatible with the Router and requires no special settings.

How can I not receive corrupted FTP downloads?

If you are experiencing corrupted files when you download a file with your FTP client, try using another FTP program.

Web page hangs, corrupt downloads, or nothing but junk characters is being displayed on the screen. What do I need to do?

Force your NIC to 10Mbps or half duplex mode, and turn off the "Auto-negotiate" feature of your NIC as a temporary measure. (Please look at the Network Control Panel, in your Ethernet Adapter's Advanced Properties tab.).

Does the ADSL Router support IPsec?

No, not currently.

Will the Router function in a Macintosh environment?

Yes.

With which type of firewall is the ADSL router equipped?

The ADSL Router uses NAT and TCP/IP port inspections.

Is the Router cross-platform compatible?

Any platform that supports Ethernet and TCP/IP is compatible with the Router.

Will the Router allow me to use my own public IPs and Domain, or do I have to use the IPs provided by the Router?

The Router mode allows for customization of your public IPs and Domain.

How can I check whether I have static DHCP IP Addresses?

Consult your ISP to confirm the information.

What is the default IP address of the router for LAN port?

The default IP address is 192.168.1.254 with subnet mask 255.255.255.0

Why does the router dial out for PPPoE or PPPoA mode very often?

Normally some of game, music or anti_virus program will send out packets that trigger the router to dial out, you can close these program. Or you can set the idle time to 0, then control to dial out manually.

Why can't I connect to the Web Configurator?

You can remove the proxy server settings in your web browser.

Why is that i can ping to outside hosts, but not access Internet websites?

Check the DNS server settings on your PC. You should get the DNS servers settings from your ISP. If your PC is running a DHCP client, remove any DNS IP address setting. As the router will assign the DNS settings to the DHCP-client-enabled PC.

Appendix C Glossary

Address mask

A bit mask used to select bits from an Internet address for subnet addressing. The mask is 32 bits long and selects the network portion of the Internet address and one or more bits of the local portion. Sometimes called subnet mask.

AAL5

ATM Adaptation Layer - This layer maps higher layer user data into ATM cells, making the data suitable for transport through the ATM network.

ADSL

Asymmetric digital subscriber line

ATM

Asynchronous Transfer Mode - A cell-based data transfer technique in which channel demand determines packet allocation. ATM offers fast packet technology, real time, demand led switching for efficient use of network resources.

AWG

American Wire Gauge - The measurement of thickness of a wire

Bridge

A device connects two or more physical networks and forwards packets between them. Bridges can usually be made to filter packets, that is, to forward only certain traffic. Related devices are: repeaters which simply forward electrical signals from one cable to the other, and full-fledged routers which make routing decisions based on several criteria.

Broadband

Characteristic of any network multiplexes independent network carriers onto a single cable. Broadband technology allows several networks to coexist on one single cable; traffic from one network does not interfere with traffic from another. Broadcast A packet delivery system where a copy of a given packet is given to all hosts attached to the network. Example: Ethernet.

CO

Central Office. Refers to equipment located at a Telco or service provider's office.

CPE

Customer Premises Equipment located in a user's premises

DHCP (Dynamic Host Configuration Protocol)

DHCP is software that automatically assigns IP addresses to client stations logging onto a TCP/IP network. DHCP eliminates having to manually assign permanent IP addresses to

every device on your network. DHCP software typically runs in servers and is also found in network devices such as Routers.

DMT

Discrete Multi-Tone frequency signal modulation

Downstream rate

The line rate for return messages or data transfers from the network machine to the user's premises machine.

DSLAM

Digital Subscriber Line Access Multiplex

Dynamic IP Addresses

A dynamic IP address is an IP address that is automatically assigned to a client station (computer, printer, etc.) in a TCP/IP network. Dynamic IP addresses are typically assigned by a DHCP server, which can be a computer on the network or another piece of hardware, such as the Router. A dynamic IP address may change every time your computer connects to the network.

Encapsulation

The technique used by layered protocols in which a layer adds header information to the protocol data unit (PDU) from the layer above. As an example, in Internet terminology, a packet would contain a header from the physical layer, followed by a header from the network layer (IP), followed by a header from the transport layer (TCP), followed by the application protocol data.

Ethernet

One of the most common local area network (LAN) wiring schemes, Ethernet has a transmission rate of 10 Mbps.

FTP

File Transfer Protocol. The Internet protocol (and program) used to transfer files between hosts.

Hop count

A measure of distance between two points on the Internet. It is equivalent to the number of gateways that separate the source and destination.

HTML

Hypertext Markup Language - The page-coding language for the World Wide Web.

HTML browser

A browser used to traverse the Internet, such as Netscape or Microsoft Internet Explorer.

http

Hypertext Transfer Protocol - The protocol used to carry world-wide-web (www) traffic between a www browser computer and the www server being accessed.

ICMP

Internet Control Message Protocol - The protocol used to handle errors and control messages at the IP layer. ICMP is actually part of the IP protocol.

Internet address

An IP address is assigned in blocks of numbers to user organizations accessing the Internet. These addresses are established by the United States Department of Defense's Network Information Center. Duplicate addresses can cause major problems on the network, but the NIC trusts organizations to use individual addresses responsibly. Each address is a 32-bit address in the form of x.x.x.x where x is an eight- bit number from 0 to 255. There are three classes: A, B and C, depending on how many computers on the site are likely to be connected.

Internet Protocol (IP)

The network layer protocol for the Internet protocol suite

IP address

The 32-bit address assigned to hosts that want to participate in a TCP/IP Internet.

ISP

Internet service provider - A company allows home and corporate users to connect to the Internet.

MAC

Media Access Control Layer - A sub-layer of the Data Link Layer (Layer 2) of the ISO OSI Model responsible for media control.

MIB

Management Information Base - A collection of objects can be accessed via a network management protocol, such as SNMP and CMIP (Common Management Information Protocol).

NAT

Network Address Translation - A proposal for IP address reuse, where the local IP address is mapped to a globally unique address.

NVT

Network Virtual Terminal

PAP

Password Authentication Protocol

PORT

The abstraction used by Internet transport protocols to distinguish among multiple simultaneous connections to a single destination host.

POTS

Plain Old Telephone Service - This is the term used to describe basic telephone service.

PPP

Point-to-Point-Protocol - The successor to SLIP, PPP provides router-to-router and host-tonetwork connections over both synchronous and asynchronous circuits.

PPPoE

PPP over Ethernet is a protocol for connecting remote hosts to the Internet over an always-

on connection by simulating a dial-up connection.

Remote server

A network computer allows a user to log on to the network from a distant location.

RFC

Request for Comments - Refers to documents published by the Internet Engineering Task Force (IETF) proposing standard protocols and procedures for the Internet. RFCs can be found at www.ietf.org..

Route

The path that network traffic takes from its source to its destination. The route a datagram may follow can include many gateways and many physical networks. In the Internet, each datagram is routed separately.

Router

A system responsible for making decisions about which of several paths network (or Internet) traffic will follow. To do this, it uses a routing protocol to gain information about the network and algorithms to choose the best route based on several criteria known as "routing metrics".

routing table

Information stored within a router that contains network path and status information. It is used to select the most appropriate route to forward information along.

Routing Information Protocol

Routers periodically exchange information with one another so that they can determine minimum distance paths between sources and destinations.

SNMP

Simple Network Management Protocol - The network management protocol of choice for TCP/IP-based Internet.

SOCKET

(1) The Berkeley UNIX mechanism for creating a virtual connection between processes.(2) IBM term for software interfaces that allow two UNIX application programs to talk via TCP/IP protocols.

Spanning-Tree Bridge Protocol (STP)

Spanning-Tree Bridge Protocol (STP) - Part of an IEEE standard. A mechanism for detecting and preventing loops from occurring in a multi-bridged environment. When three or more LAN's segments are connected via bridges, a loop can occur. Because a bridge forwards all packets that are not recognized as being local, some packets can circulate for long periods of time, eventually degrading system performance. This algorithm ensures only one path connects any pair of stations, selecting one bridge as the 'root' bridge, with the highest priority one as identifier, from which all paths should radiate.

Spoofing

A method of fooling network end stations into believing that keep alive signals have come from and returned to the host. Polls are received and returned locally at either end

Static IP Addresses

A static IP address is an IP address permanently assigned to computer in a TCP/IP network. Static IP addresses are usually assigned to networked devices that are consistently accessed by multiple users, such as Server PCs, or printers. If you are using your Router to share your cable or DSL Internet connection, contact your ISP to see if they have assigned your home a static IP address. You will need that address during your Router's configuration.

Subnet

For routing purposes, IP networks can be divided into logical subnets by using a subnet mask. Values below those of the mask are valid addresses on the subnet.

ТСР

Transmission Control Protocol - The major transport protocol in the Internet suite of protocols provides reliable, connection-oriented full-duplex streams.

TFTP

Trivial File Transfer Protocol - A simple file transfer protocol (a simplified version of FTP) that is often used to boot diskless workstations and other network devices such as routers over a network (typically a LAN).

Telnet

The virtual terminal protocol in the Internet suite of protocols - Allows users of one host to log into a remote host and act as normal terminal users of that host.

Transparent bridging

So named because the intelligence necessary to make relaying decisions exists in the bridge itself and is thus transparent to the communicating workstations. It involves frame forwarding, learning workstation addresses and ensuring no topology loops exist (in conjunction with the Spanning-Tree algorithm).

UDP

User Datagram Protocol - A connectionless transport protocol that runs on top of TCP/IP's IP. UDP, like TCP, uses IP for delivery; however, unlike TCP, UDP provides for exchange of datagrams without acknowledgments or guaranteed delivery. Best suited for small, independent requests, such as requesting a MIB value from an SNMP agent, in which first setting up a connection would take more time than sending the data.

UNI signaling

User Network Interface signaling for ATM communications.

Virtual Connection (VC)

A link that seems and behaves like a dedicated point-to-point line or a system that delivers packets in sequence, as happens on an actual point-to-point network. In reality, the data is delivered across a network via the most appropriate route. The sending and receiving devices do not have to be aware of the options and the route is chosen only when a message is sent. There is no pre-arrangement, so each virtual connection exists only for the duration of that one transmission.

WAN

Wide area network - A data communications network that spans any distance and is usually provided by a public carrier (such as a telephone company or service provider).

Free Manuals Download Website <u>http://myh66.com</u> <u>http://usermanuals.us</u> <u>http://www.somanuals.com</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.com</u> <u>http://www.404manual.com</u> <u>http://www.luxmanual.com</u> <u>http://aubethermostatmanual.com</u> Golf course search by state

http://golfingnear.com Email search by domain

http://emailbydomain.com Auto manuals search

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

http://tv.somanuals.com