

User Guide

TD-8810 External ADSL2+ Router



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FCC STATEMENT



This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/ TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1) This device may not cause harmful interference.
- 2) This device must accept any interference received, including interference that may cause undesired operation.

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

CE Mark Warning

CE

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

EC DECLARATION OF CONFORMITY (EUROPE)

In compliance with the EMC Directive 89/336/EEC, Low Voltage Directive 73/23/EEC, this product meets the requirements of the following standards:

- EN55022
- EN55024
- EN60950

SAFETY NOTICES

Caution:

Do not use this product near water, for example, in a wet basement or near a swimming pool.

Package Contents

The following items should be found in your package:

- > One TD-8810 External ADSL2+ Router
- > One AC power Adapter for TD-8810 External ADSL2+ Router
- > One Resource CD for TD-8810 External ADSL2+ Router, including:
 - This Guide
 - Quick installation Guide Program
 - Other Helpful Information
- > Quick installation Guide
- > One RJ45 cable
- > Two RJ11 cable
- > One ADSL splitter

Note:

Make sure that the box contains the above items. If any of the listed items are damaged or missing, please contact with your distributor.

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Chapter 1. Introduction

Thank you for choosing the TD-8810 External ADSL2+ Router.

1.1 Product Overview

With the excellent circuit design and high quality production, we guarantee the ADSL Router's high performance, great stability and easy to use.

The TD-8810 uses integrated ADSL transceiver. The AFE supports full-rate ADSL connectivity conforming to the ITU and ANSI specifications.

In addition to the basic DMT physical layer functions, the ADSL PHY supports dual latency ADSL framing (fast and interleaved) and the I.432 ATM Physical Layer.

The TD-8810 is a complete plug-and-play solution. With standard Ethernet interface, it can be directly connected to any 10M/100M Ethernet devices, support Auto-MDIX.

The TD-8810 not only uses html (web mode through Ethernet port) to configure the Router but also uses external utility software. You can download it from our website (http://www.tp-link.com).

1.2 Main Features

- > High speed and asymmetry data transmit mode, provides safe and exclusive bandwidth
- > Support All ADSL industrial standards
- > Compatible with all mainstream DSLAM (CO)
- > Firmware upgradeable
- > Provide integrated access of internet and route function which face to SOHO user
- > Advanced DMT modulation and demodulation
- Real-time Configuration and device monitoring
- Quick response semi-conductive surge protect circuit, provides reliable ESD and surge-protect function

1.3 Supporting protocol

- G.992.1 (G.dmt) Annex A/B/C
- G.992.2 (G.lite) Annex A/B/C
- ANSI T1.413
- G.992.3 (ADSL2) Annex A/B/C/M and Annex L (RE-DSL) compliant
- G.992.5 (ADSL) Annex A/B/C and Annex L (RE-DSL) compliant
- ADSL dual latency (fast path and interleaved path)

- I.432 ATM physical layer compliant
- Supports RFC2364 (PPPoA)
- Supports RFC2516 (PPPoE)
- Supports RFC1483 (EoA) (Bridged *and Router)
- Supports RFC1577 (IPoA)

P Note:

"*" needs the third-party software.

1.4 Transmit data-rate

- Max download data-rate: 24Mbps
- Max upload data-rate: 3.5Mbps
- Max line length: 6Km

1.5 ATM property

- > AAL0, AAL5, OAM, RM, and raw cell types supported
- Direct hardware support for 4 Receive VCs, with additional RX VCs and TX VCs supported in software
- > Full 24-bit Virtual Path Identifier (VPI) and Virtual Circuit Identifier (VCI)

1.6 System support

- Support PVC
- Support NAT、DHCP and so on
- Support IEEE 802.3、IEEE 802.3u
- Support 10Base-T/100BASE-TX full-duplex or half duplex Ethernet
- Support Auto-MDIX

1.7 Working environment

- > Operating temperature: 0 °C ~40 °C
- Storage temperature: -40 °C ~70 °C
- Humidity: 10%~90% (non-condensing)

1.8 Conventions

The Router or TD-8810, or device mentioned in this User guide stands for TD-8810 External

ADSL2+ Router without any explanations.

Parameters provided in the pictures are just references for setting up the product, which may differ from the actual situation.

You can set the parameters according to your demand.

Chapter 2. Hardware Installation

The TD-8810 maintains three separate interfaces, one Ethernet, one ADSL and one power adapter interface.

The Router should not be located where it will be exposed to moisture or excessive heat. Place the Router in a location where it can be safely connected to the various devices as well as to a power source.

2.1 System requirement

Confirm your computer has been installed with networking interface card (NIC) before connecting ADSL Router to your computer, with operating system supporting the TCP/IP protocol.

2.1.1 LED explanation

The front panel of ADSL Router includes one power indicator (RED) and seven function indicators (GREEN), as explained in chart below:

Name	Status	Indication	
PWR	On	Power OK	
	Off	Power fail	
Quick flash		The LINE port is connecting to the ISP's network	
ADSL	On	The LINE port has connected to ISP's network	
Off		The LINE port has no connection	
ALARM	On	There is mistake when ADSL transmitting or receiving data	
		ADSL normal	
АСТ	On	There is data transmitting or receiving on LINE port	
		No data transmitting or receiving on LINE port	
	On	LAN port normal	
LAN	Off	Connection on LAN port abnormal	
Flash Data transmitting or receiving		Data transmitting or receiving on LAN port	

2.2 Rear-panel

- > **ON/OFF**: Turn on/off the ADSL Router's power.
- Power (9V~0.8A input): Please use the provided power adaptor, otherwise may cause damage to the ADSL Router.
- RESET (reset default): First press the reset button of Router, then turn on the Router's power for at least three seconds. It will resume the default manufacturer's setup.

- > LAN: Connect with your computer's NIC.
- > LINE (WAN): Connect to the MODEM Port of Splitter or Connect with the telephone line.

2.3 Hardware installation procedures

The procedure to install the Router can be described in general terms in the following steps:

Step 1: Connecting the MODEM port of Splitter with the TD-8810 ADSL Router LINE port by telephone line. While you need to use a telephone, please attach telephone line into the phone of Splitter.

Step 2: Connect category 5 cable with RJ45 jacks to the ADSL Router's LAN port and your computer's NIC.

Step 3: Plug one end of the AC Power Adapter into the Power jack on the Ethernet ADSL2+ Router and the other end to a standard electrical outlet.

Step 4: Check the line connection to see if everything is ready. Power up finally.

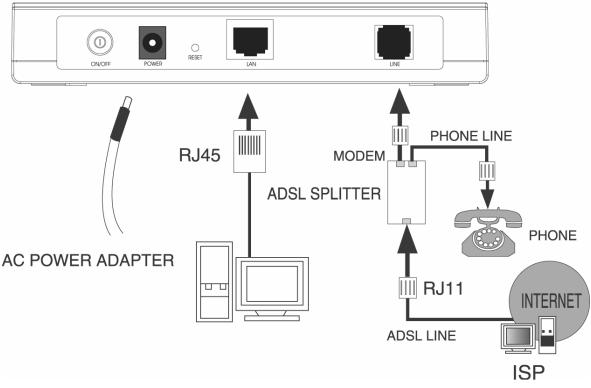


Figure 2-1

Chapter 3. System Configuration

3.1 Computer Configuration

- 1. Connect the cable according to Chapter 2, turn on the power.
- 2. Change the IP address of your PC (Figure 3-1) : Open TCP/IP Properties of the LAN card in your PC, enter the IP address as 192.168.1.*.

P Note:

(* is any value between 2 to 254, Net mask is 255.255.255.0, Gateway is 192.168.1.1, DNS address is the value provided by ISP).

Internet Protocol (TCP/IP) Propertie	s ? X
General	
You can get IP settings assigned autom this capability. Otherwise, you need to a the appropriate IP settings.	
O Obtain an IP address automatical	y I
$\neg \odot$ Use the following IP address:	
<u>I</u> P address:	192.168.1.241
S <u>u</u> bnet mask:	255.255.255.0
Default gateway:	192.168.1.1
C Obtain DNS server address autor	natically
☐ Use the following DNS server add	tresses:
Preferred DNS server:	
<u>A</u> lternate DNS server:	· · ·
	Ad <u>v</u> anced
	OK Cancel

Figure 3-1

P Note:

Users of Windows 98 can open **TCP/IP Properties** according to the following: Right-click (Mouse) **Network Neighbor** -> Choose **Properties** -> Double-click **TCP/IP**.

Users of Windows 2000/NT/XP can do the following: Right-click **Network Neighbor** -> Choose **Properties** -> Right-click **Local Connection** -> Choose **Properties** -> Double-click **Internet Protocol (TCP/IP).**

P Note:

The words in fact may be different with this guide.

Remarks: you can check whether your configuration is successful through **PING** command. Enter **Ping 192.168.1.1**

If the screen looks like the following, you have been successful.

Pinging 192.168.1.1 with 32 bytes of data:
Reply from 192.168.1.1: bytes=32 time<1ms TTL=64
Ping statistics for 192.168.1.1:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = Oms, Maximum = Oms, Average = Oms

Figure 3-2

If the screen looks like the following, the connection has failed. Please try again.

```
Pinging 192.168.1.1 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.
Ping statistics for 192.168.1.1:
Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

Figure 3-3

3.2 Login

Startup Internet Explorer, and enter 192.168.1.1;then enter default user name(admin), password(admin), When ADSL connection is OK, you will see the Figure 3-2.

Connect to 192	2.168.1.1	? 🛛
DSL Router		
User name:	🕵 adimin	*
Password:	•••••	
	Remember my p	Cancel

Figure 3-4

3.3 Quick Setup

1) Figure 4 is the main page of the Router.

<u>TD-8810</u>	Device Info		
Device Info	Board ID:	96338L-2M-8M	
Device Info Quick Setup	Firmware Version:	3.06L.03-T1.0a-080130.A2p	0B023k.d17
Advanced Setup	Bootloader (CFE) Version:	1.0.37-6.5	
Management	Line Rate - Upstream (Kbps		
Management	This information reflects the cur		iccuon.
	Line Rate - Downstream (K	bos):	
	Line Rate - Downstream (K LAN IP Address:	bps): 192.168.1.1	
	Party of the second sec		
	LAN IP Address:		

Figure 3-5

 Please select Quick Setup. Enter the VPI and VCI values provided by your Internet Service Provider and click Next.

//	
<u>TD-8810</u>	Quick Setup
	This Quick Setup will guide you through the steps necessary to configure your DSL Router.
Device Info Quick Setup Advanced Setup Diagnostics Management	ATM PVC Configuration The Virtual Path Identifier (VPI) and Virtual Channel Identifier (VCI) are needed for setting up the ATM PVC. Do not change VPI and VCI numbers unless your ISP instructs you otherwise. VPI: [0-255] 0 VGI: [0-255] 0
	VCI: [32-65535] 35 Enable Quality Of Service Enabling QoS for a PVC improves performance for selected classes of applications. However, since QoS also consumes system resources, the number of PVCs will be reduced consequently. Use Advanced Setup/Quality of Service to assign priorities for the applications.
	Enable Quality Of Service
	Next

Figure 3-6

3) Select the relevant Connection Type and Encapsulation mode as the settings provided by your Internet Service Provider and click **Next**.

3.3.1 PPPoA

a) Select PPP over ATM (PPPoA) Connection Type, and click Next.

<u>TD-8810</u>	Connection Type
	Select the type of network protocol for IP over Ethernet as WAN interface
Device Info	
Quick Setup	PPP over ATM (PPPoA)
Advanced Setup	
Diagnostics	PPP over Ethernet (PPPoE)
Management	MAC Encapsulation Routing (MER)
	○ IP over ATM (IPoA)
	O Bridging
	Encapsulation Mode
	Back

Figure 3-7

b) Enter the Username and Password provided by your Internet Service Provider and click **Next**.

PPP Username and Password
PPP usually requires that you have a user name and password to establish your connection. In the boxes below, enter the user name and password that your ISP has provided to you.
PPP Username:
PPP Password:
Authentication Method: AUTO
MTU [512-1500] : 1492
Dial on demand (with idle timeout timer)
Inactivity Timeout (minutes) [1-4320]: 15
PPP IP extension
Use Static IP Address
Enable PPP Debug Mode
Back Next

Figure 3-8

c) Turn on the selected functions according to your demands. Clicking the **next** button to enter the next step.

Enable IGMP Multica	st, and WAN Service	
Enable IGMP Multicast	V	
Enable WAN Service		
Service Name	br_0_33	
		Back

Figure 3-9

d) Click Save/Reboot.

VPI / VCI:	0 / 33	
Connection Type:	PPPoA	
Service Name:	br_0_33	
Service Category:	UBR	
IP Address:	Automatically Assigned	
Service State:	Enabled	
NAT:	Enabled	
Firewall:	Enabled	
IGMP Multicast:	Enabled	
Quality Of Service:	Disabled	

Figure 3-10

3.3.2 PPPoE

a) Select PPP over Ethernet (PPPoE) Connection Type, and click **Next.**

<u>TD-8810</u>	Connection Type
Device Info	Select the type of network protocol for IP over Ethernet as WAN interface
Device Info Quick Setup	PPP over ATM (PPPoA)
Advanced Setup	
Diagnostics	PPP over Ethernet (PPPoE)
Management	 MAC Encapsulation Routing (MER)
	O IP over ATM (IPoA)
	O Bridging
	Encapsulation Mode
	Back

Figure 3-11

b) Enter the Username and Password provided by your Internet Service Provider and click **Next**.

PPP Username and Pa	issword
	you have a user name and password to establish your connection. In the boxes below, password that your ISP has provided to you.
PPP Username:	
PPP Password:	
PPPoE Service Name:	
Authentication Method:	AUTO
	1492 th idle timeout timer)
Inactivity Timeout (minu	tes) [1-4320]: 15
PPP IP extension	
Use Static IP Addres	is
Enable PPP Debug I	Mode
	Back Next

Figure 3-12

c) Click Save/Reboot.

VPI / VCI:	0 / 35	
Connection Type:	PPPoE	
Service Name:	pppoe_0_35_2	
Service Category:	UBR	
IP Address:	Automatically Assigned	
Service State:	Enabled	
NAT:	Enabled	
Firewall:	Enabled	
IGMP Multicast:	Enabled	
Quality Of Service:	Disabled	

Figure 3-13

▲ Note:

The Router will restart when you complete the configuration, so you have to wait for a while until it restarts successfully.

3.3.3 MER

a) Select MAC Encapsulation Routing (MER) Connection Type, and click Next.

<u>TD-8810</u>	Connection Type
	Select the type of network protocol for IP over Ethernet as WAN interface
Device Info	
Quick Setup	O PPP over ATM (PPPoA)
Advanced Setup	
Diagnostics	PPP over Ethernet (PPPoE)
Management	 MAC Encapsulation Routing (MER)
	○ IP over ATM (IPoA)
	O Bridging
	Encapsulation Mode
	Back

b) Enter the parameter and the way which is provided by your ISP, then click **Next**.

WAN IP Settings	
Enter information provided to you by your ISP to configure the WAN IP settings. Notice: DHCP can be enabled for PVC in MER mode or IP over Ethernet as WAN interface if "Obtain an IP address automatically" is chosen.Changing the default gateway or the DNS effects the whole system. Configuring them with static values will disable the automatic assignment from DHCP or other WAN connection. If you configure static default gateway over this PVC in MER mode, you must enter the IP address of the remote gateway in the "Use IP address". The "Use WAN interface" is optional.	
Obtain an IP address automatically	
O Use the following IP address:	
WAN IP Address:	
WAN Subnet Mask:	
 Obtain default gateway automatically Use the following default gateway: Use IP Address: Use WAN Interface: pppoe_0_35_2/ppp_0_35_1 v 	
Obtain DNS server addresses automatically	
O Use the following DNS server addresses:	
Primary DNS server:	
Secondary DNS server:	
Back	



c) Turn on the selected functions according to your needs. Click Next.

Network Address Tr	anslation Settings	
Network Address Translation (NAT) allows you to share one Wide Area Network (WAN) IP address for multiple computers on your Local Area Network (LAN).		
Enable NAT		
Enable Firewall 🗹		
Enable IGMP Multicast, and WAN Service		
Enable IGMP Multicast		
Enable WAN Service		
Service Name:	br_0_33	
	Back Next	

Figure 3-15

d) Click Save/Reboot.

WAN Setup - Summary

Make sure that the settings below match the settings provided by your ISP.

VPI / VCI:	0 / 33
Connection Type:	MER
Service Name:	br_0_33
Service Category:	UBR
IP Address:	Automatically Assigned
Service State:	Enabled
NAT:	Enabled
Firewall:	Enabled
IGMP Multicast:	Enabled
Quality Of Service:	Disabled

Click "Save" to save these settings. Click "Back" to make any modifications. NOTE: You need to reboot to activate this WAN interface and further configure services over this interface.

Back	Save/Reboot
------	-------------

Figure 3-16

3.3.4 IPoA

a) Select IP over ATM (IPoA) Connection Type, and click Next.

<u>TD-8810</u>	Connection Type
Device Info	Select the type of network protocol for IP over Ethernet as WAN interface
Quick Setup	O PPP over ATM (PPPoA)
Advanced Setup	
Diagnostics	PPP over Ethernet (PPPoE)
Management	 MAC Encapsulation Routing (MER)
	● IP over ATM (IPoA)
	O Bridging
	Encapsulation Mode
	LLC/SNAP-BRIDGING
	Back

Figure 3-17

b) Enter the parameter and the way which is provided by your ISP, then click **Next**.

TD-8811	WAN IP Settings
	Enter information provided to you by your ISP to configure the WAN IP settings.
Device Info	
Quick Setup	Notice: DHCP is not supported in IPoA mode. Changing the default gateway or the DNS
Advanced Setup	effects the whole system. Configuring them with static values will disable the automatic
Diagnostics	assignment from other WAN connection.
Management	WAN IP Address: 192.168.1.184
	WAN Subnet Mask: 255.255.0
	☑ Use the following default gateway:
	✓ Use IP Address: 192.168.1.1
	Use WAN Interface: ipoa_0_35/ipa_0_35
	Use the following DNS server addresses: Primary DNS server: Secondary DNS server: Back Next

Figure 3-18

c) Turn on the selected functions according to your needs. Click Next

Network Address Translation Settings		
Network Address Translation (NAT) allows you to share one Wide Area Network (WAN) IP address for multiple computers on your Local Area Network (LAN).		
Enable NAT 🔽		
Enable Firewall 🔽		
Enable IGMP Multicast, and WAN Service		
Enable IGMP Multicast 🔽		
Enable WAN Service		
Service Name: br_0_33		
Back Next		

Figure 3-19

d) Click Save/Reboot.

WAN Setup - Summary Make sure that the settings below match the settings provided by your ISP. VPI / VCI: 0/33 Connection Type: IPoA Service Name: br_0_33 Service Category: UBR **IP Address:** 192.168.1.198 Service State: Enabled NAT: Enabled Firewall: Enabled IGMP Multicast: Enabled Quality Of Service: Disabled Click "Save" to save these settings. Click "Back" to make any modifications. NOTE: You need to reboot to activate this WAN interface and further configure services over this interface. Back Save/Reboot

Figure 3-20

3.3.5 Bridging

a) Select Bridging Connection Type, and click Next.

<u>TD-8810</u>	Connection Type
	Select the type of network protocol for IP over Ethernet as WAN interface
Device Info	
Quick Setup	O PPP over ATM (PPPoA)
Advanced Setup	
Diagnostics	PPP over Ethernet (PPPoE)
Management	O MAC Encapsulation Routing (MER)
	O IP over ATM (IPoA)
	Is Bridging
	Encapsulation Mode
	Back

Figure 3-21

b) Click Save/Reboot.

WAN Setup - Summary Make sure that the settings below match the settings provided by your ISP. VPI / VCI: 0/33 Connection Type: Bridge Service Name: br_0_33 Service Category: UBR IP Address: Not Applicable Service State: Enabled NAT: Enabled Firewall: Enabled IGMP Multicast: Not Applicable Quality Of Service: Disabled Click "Save" to save these settings. Click "Back" to make any modifications. NOTE: You need to reboot to activate this WAN interface and further configure services over this interface. Back Save/Reboot

Figure 3-22

P Note:

After you complete any setup, the new setup must be saved and the Router must be restarted for the configuration to go into effect. Please click the **Save/Reboot** button to restart.

3.4 Change Password

You will then see the Figure 3-23, which displays some information such as link rate and so on

<u>TD-8810</u>	Device Info				
Device Info	Board ID:	96338	3L-2M-8M		
Quick Setup	Firmware Version:	3.06L	.03-T1.0a-080)130.A2pB023k.d17m	
Advanced Setup	Bootloader (CFE) Version:	1.0.37	7-6.5		
Diagnostics Management	This information reflects the cur	rent st	atus of your I	OSL connection.	
	Line Rate - Upstream (Kbps	s):			
	Line Rate - Downstream (K	bps):			
	LAN IP Address:		192.168.1.1		
	Default Gateway:				
	Primary DNS Server:		192.168.1.1		
	Secondary DNS Server:		192.168.1.1		
				1	



Default value of user name and password is "admin"; if you want to change them, please go to "Management" \rightarrow "Access control" \rightarrow "Passwords" changing them. (Figure 3-24)

<u>TD-8810</u>	Access Control Password			
Device Info	Access to your DSL router is controlled through three user accounts: admin, support, and user.			
Device Info				
Quick Setup	The user name "admin" has unrestricted access to change and view configuration of your DSL Router.			
Advanced Setup				
Diagnostics	The user name "support" is used to allow an ISP technician to access your DSL Router for maintenance and to run diagnostics.			
Management	i an angroseer			
Settings	The user name "user" can access the DSL Router, view configuration settings and statistics, as well as, update			
System Log	the router's firmware.			
SNMP Agent	Use the fields below to enter up to 16 characters and click "Apply" to change or create passwords. Note:			
Internet Time	Password cannot contain a space.			
Access Control	r assirora currier contain a space.			
Services	Username: admin 🔽			
IP Addresses	Old Password:			
Password	New Password:			
Update Firmware	Confirm Password:			
Save/Reboot				
	Save/Apply			

Figure 3-24

3.5 Web Setup

Choose "Advanced Setup"→"WAN", you will enter the page of Wide Area Network (WAN) Setup, you will see the Figure 3-25.

	Wide Area	Network	(WAN) Se	tup								
Device Info				-	AN interfaces							
Quick Setup	Choose Sav	e/Reboot	to apply the	changes ar	nd reboot the	e system.						
Advanced Setup	VPI/VCI	Con. ID	Category	Service	Interface	Protocol	MTU	Igmp	QoS	State	Remove	Edit
WAN	0/32	1	UBR	br_0_32	nas_0_32	Bridge	1500	N/A	Disabled	Enabled		Edit
LAN							10000		23.7777			
MAC Clone	1/33	1	UBR	br_1_33	nas_1_33	Bridge	1500	N/A	Disabled	Enabled		Edit
NAT	0/35	1	UBR	br_0_35	nas_0_35	Bridge	1500	N/A	Disabled	Enabled		Edit
Security	0/100	1	UBR	br 0 100	nas_0_100	Bridge	1500	N/A	Disabled	Enabled		Edit
Routing		-	obit	00_100	100_0_100	bridge			1000 U.A. 10			_
DNS	8/35	1	UBR	br_8_35	nas_8_35	Bridge	1500	N/A	Disabled	Enabled		Edit
DSL	8/81	1	UBR	br_8_81	nas_8_81	Bridge	1500	N/A	Disabled	Enabled		Edit
Diagnostics	0/200		LIPO	br 0 200	nac 0 200	Dridaa	1500	A1/A	Disabled	Enabled	-	C c da
Management	0/200	1	UBR	0_200	nas_0_200	Bridge	1500	N/A	Disabled	chabled		Edit

Figure 3-25

There are 7 PVC links in the **WAN** setup page, choose the appropriate PVC according to your need, and then click the **edit** button, you will enter the page of ATM PVC Configuration (See Figure 3-26)

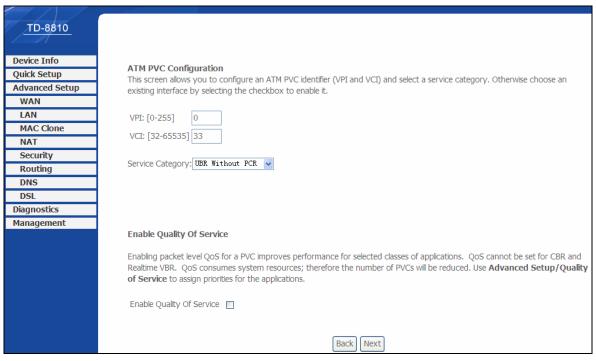


Figure 3-26

Enter **VPI/VCI** value and service category which is provided by your ISP, click **next** to enter the next step. You will see the Figure 3-27.

PNote:

The type of network protocol selected may be different in different areas, there are five types (Figure 3-27), So you should ask your ISP to acquire the local type of network protocol and Encapsulation mode.

<u>TD-8810</u>	Connection Type
Device Info	Select the type of network protocol for IP over Ethernet as WAN interface
Device Info	
Quick Setup	PPP over ATM (PPPoA)
Advanced Setup	
WAN	PPP over Ethernet (PPPoE)
LAN	MAC Encapsulation Routing (MER)
MAC Clone	
NAT	O IP over ATM (IPOA)
Security	
Routing	 Bridging
DNS	
DSL	Encapsulation Mode
Diagnostics	LLC/SNAP-BRIDGING
Management	
	Back

Figure 3-27

After choosing the proper protocol, enter the correct parameters supported by your ISP. Enable

the configurations, and then you will go to Internet.

> PPP over ATM (PPPoA)

If you select the protocol of PPP over ATM (PPPoA), you will see the Figure 3-28, in which please enter the value of user name and password which is provided by your ISP. After selecting the other function (it's recommended to keep the default setup), click **Next** to continue.

e user
e user
i i

Figure 3-28

You will see the Figure 3-29, and then turn on the selected functions according to your demands. Clicking the **next** button to enter the next step, you will see the Figure 3-30, finally click **save** to complete the configuration.

<u>TD-8810</u>	Enable IGMP Multicast, and WAN Service	
Device Info	Enable IGMP Multicast 💟	
Quick Setup	Enable WAN Service	
Advanced Setup	Enable WAN Service	
WAN	Service Name br_0_33	
LAN		
MAC Clone		
NAT		
Security	Back	
Routing		
DNS		
DSL		
Diagnostics		
Management		

Figure 3-29

<u>TD-8810</u>	WAN Setup - Sumn	nary	
	Make sure that the set	ttings below match the se	ettings provided by your ISP.
evice Info		2	
uick Setup	VPI / VCI:	0 / 33	
dvanced Setup	Connection Type:	PPPoA	
WAN	Service Name:	br_0_33	
LAN	Service Category:	UBR	
MAC Clone	IP Address:		
NAT		Automatically Assigned	
Security	Service State:	Enabled	
Routing	NAT:	Enabled	
DNS	Firewall:	Enabled	
DSL	IGMP Multicast:	Enabled	
iagnostics			
lanagement	Quality Of Service:	Disabled	
	Click "Save" to save th	hese settings. Click "Back	" to make any modifications.
			N interface and further configure services over this interface.
			Back Save

Figure 3-30

> PPP over Ethernet (PPPoE)

If you select the protocol of PPP over Ethernet (PPPoE), you will see the Figure 3-31, in which please enter the value of user name and password which is provided by your ISP. After selecting the other function (it's recommended to keep the default setup), click the **next** button.

PPP Username and Password
PPP usually requires that you have a user name and password to establish your connection. In the boxes below, enter the user
name and password that your ISP has provided to you.
PPP Username:
PPP Password:
PPPoE Service Name:
Authentication Method: AUTO
MTLL[512-1500] · 1492
MTU [512-1500] : 1492
Dial on demand (with idle timeout timer)
Inactivity Timeout (minutes) [1-4320]: 15
PPP IP extension
Use Static IP Address
Enable PPP Debug Mode
Back Next

Figure 3-31

You will see the Figure 3-32, and then turn on the selected functions according to your needs. Clicking the **next** button to enter the next step, you will see the Figure 3-33, finally click **save** to complete the configuration.

<u>TD-8810</u>	Enable IGMP Multicast, and WAN Service	
Device Info Quick Setup	Enable IGMP Multicast 🔽 Enable WAN Service 🔽	
Advanced Setup WAN LAN	Service Name br_0_33	
MAC Clone NAT		
Security Routing	Back	
DNS DSL Diagnostics		
Diagnostics Management		

Figure 3-32

<u>TD-8810</u>	WAN Setup - Sumn	ici y	
Device Info	Make sure that the set	ttings below match the se	ttings provided by your ISP.
Quick Setup	VPI / VCI:	0/33	
Advanced Setup	Connection Type:	PPPoE	
WAN	Service Name:	br 0 33	
LAN			
MAC Clone	Service Category:	UBR	
NAT	IP Address:	Automatically Assigned	
Security	Service State:	Enabled	
Routing	NAT:	Enabled	
DNS	Firewall:	Enabled	
DSL	IGMP Multicast:	Enabled	
Diagnostics			
	Quality Of Service:	Disabled	

Figure 3-33

> MAC Encapsulation Routing (MER)

If you select the protocol of MAC Encapsulation Routing (MER), you will see the page (Figure 3-34), Enter the parameter and the way which is provided by your ISP, then click the **next** button.

TD-8810	WAN IP Settings
D 1 7 (Enter information provided to you by your ISP to configure the WAN IP settings.
Device Info	Notice: DHCP can be enabled for PVC in MER mode or IP over Ethernet as WAN interface if "Obtain an IP address automatically"
Quick Setup	is chosen. Changing the default gateway or the DNS effects the whole system. Configuring them with static values will disable the automatic assignment from DHCP or other WAN connection.
Advanced Setup	If you configure static default gateway over this PVC in MER mode, you must enter the IP address of the remote gateway in the
WAN	"Use IP address". The "Use WAN interface" is optional.
LAN	
MAC Clone	 Obtain an IP address automatically
NAT	Use the following IP address:
Security	WAN IP Address:
Routing	WAN Subnet Mask:
DNS	
DSL	 Obtain default gateway automatically
Diagnostics	
Management	Use IP Address:
	Use WAN Interface: pppoe_0_35_2/ppp_0_35_1
	Obtain DNS server addresses automatically
	 Use the following DNS server addresses:
	Primary DNS server:
	Secondary DNS server:
	Back

Figure 3-34

You will see the Figure 3-35, and then turn on the selected functions according to your needs. Clicking the **next** button to enter the next step, you will see the Figure 3-36, finally click **save** to complete the configuration.

TD-8810	Network Address Translation Settings
	-
	Network Address Translation (NAT) allows you to share one Wide Area Network (WAN) IP address for multiple computers on your
Device Info	Local Area Network (LAN).
Quick Setup	
Advanced Setup	Enable NAT 🔽
WAN	Enable Firewall
LAN	_
MAC Clone	
NAT	Enable IGMP Multicast, and WAN Service
Security	
Routing	Enable IGMP Multicast 🔽
DNS	Enable WAN Service 🔽
DSL	
Diagnostics	Service Name: br_0_33
Management	
	Back Next

Figure 3-35

Device Info Quick Setup Advanced Setup WAN LAN MAC Clone NAT Security Routing DSL Diagnostics Management Cick "Save" to save these settings. Click "Back" to make any modifications. NOTE: You need to reboot to activate this WAN interface and further configure services over this interface.	TD-8810	WAN Setup - Sumn	ary				
Device Info Quick Setup Advanced Setup WAN LAN MAC Clone NAT Service Name: br_0_33 Service Category: UBR IP Address: Automatically Assigned Service State: Enabled DNS Firewall: Enabled Joagnostics Quality Of Service: Disabled Click "Save" to save these settings. Click "Back" to make any modifications. NOTE: You need to reboot to activate this WAN interface and further configure services over this interface.		Make sure that the settings below match the settings provided by your ISP.					
Advanced Setup Connection Type: MER WAN Service Name: br_0_33 LAN Service Category: UBR MAC Clone IP Address: Automatically Assigned Security Service State: Enabled Routing NAT: Enabled DNS Firewall: Enabled Diagnostics Quality Of Service: Disabled Management Click "Save" to save these settings. Click "Back" to make any modifications. NOTE: You need to reboot to activate this WAN interface and further configure services over this interface.	Device Info		5				
WAN Connection Type: MER Service Name: br_0_33 LAN Service Category: UBR MAC Clone IP Address: NAT Service State: Security Service State: Routing NAT: DNS Firewall: Diagnostics Quality Of Service: Management Click "Save" to save these settings. Click "Back" to make any modifications. NOTE: You need to reboot to activate this WAN interface and further configure services over this interface.	Quick Setup	VPI / VCI:	0 / 33				
LAN Service Name: br_0_33 MAC Clone NAT NAT Service Category: UBR IP Address: Automatically Assigned Security Service State: Enabled NAT: Enabled NAT: DNS Firewall: Enabled DSL IGMP Multicast: Enabled Quality Of Service: Disabled Click "Save" to save these settings. Click "Back" to make any modifications. NOTE: You need to reboot to activate this WAN interface and further configure services over this interface.		Connection Type:	MER				
MAC Clone Service Category: UBR NAT IP Address: Security Service State: Routing NAT: DNS Firewall: Diagnostics IGMP Multicast: Quality Of Service: Disabled Click "Save" to save these settings. Click "Back" to make any modifications. NOTE: You need to reboot to activate this WAN interface and further configure services over this interface.		Service Name:	br_0_33				
MAC Clone IP Address: Automatically Assigned Security IP Address: Automatically Assigned Security Service State: Enabled NAT: Enabled If it is the isolation of t		Service Category:	UBR				
Security Security Routing DNS DSL Diagnostics Management Click "Save" to save these settings. Click "Back" to make any modifications. NOTE: You need to reboot to activate this WAN interface and further configure services over this interface.							
Routing NAT: Enabled DNS Firewall: Enabled DSL IGMP Multicast: Enabled Quality Of Service: Disabled Click "Save" to save these settings. Click "Back" to make any modifications. NOTE: You need to reboot to activate this WAN interface and further configure services over this interface.		Service State:	, ,				
DNS Firewall: Enabled DSL IGMP Multicast: Enabled Diagnostics Quality Of Service: Disabled Management Cick "Save" to save these settings. Cick "Back" to make any modifications. NOTE: You need to reboot to activate this WAN interface and further configure services over this interface.							
DSL Interface Diagnostics IGMP Multicast: Quality Of Service: Disabled Click "Save" to save these settings. Click "Back" to make any modifications. NOTE: You need to reboot to activate this WAN interface and further configure services over this interface.	-						
Diagnostics Quality Of Service: Disabled Management Click "Save" to save these settings. Click "Back" to make any modifications. NOTE: You need to reboot to activate this WAN interface and further configure services over this interface.	DSL						
Quality Of Service: Disabled Click "Save" to save these settings. Click "Back" to make any modifications. NOTE: You need to reboot to activate this WAN interface and further configure services over this interface.	Diagnostics	IGMP Multicast:	Enabled				
NOTE: You need to reboot to activate this WAN interface and further configure services over this interface.		Quality Of Service:	Disabled				
Back			-				

Figure 3-36

> IP over ATM (IPoA)

If you select the protocol of IP over ATM (IPoA), you will see the Figure 3-37, enter the parameter and the way which is provided by your ISP, then click the **next** button.

TD-8810	WAN IP Settings
	Enter information provided to you by your ISP to configure the WAN IP settings.
Device Info	
Quick Setup	Notice: DHCP is not supported in IPoA mode. Changing the default gateway or the DNS effects the whole system. Configuring
Advanced Setup	them with static values will disable the automatic assignment from other WAN connection.
WAN	
LAN	WAN IP Address: 192.168.1.198
MAC Clone	WAN Subnet Mask: 255.255.255.0
NAT	
Security	Use the following default gateway:
Routing	Use IP Address:
DNS	Use WAN Interface: pppoe_0_35_2/ppp_0_35_1
DSL	Use the following DNS server addresses:
Diagnostics	
Management	Primary DNS server:
	Secondary DNS server:
	Back

Figure 3-37

You will see the page (Figure 3-38), then turn on the selected functions according to your needs. Clicking the **next** button to enter the next step, you will see the Figure 3-39, finally click **save** to complete the configuration.

<u>TD-8810</u>	Network Address Translation Settings
	Network Address Translation (NAT) allows you to share one Wide Area Network (WAN) IP address for multiple computers on your
Device Info	Local Area Network (LAN).
Quick Setup	
Advanced Setup	Enable NAT 🔽
WAN	Enable Firewall 🔽
LAN	
MAC Clone	
NAT	Enable IGMP Multicast, and WAN Service
Security	
Routing	Enable IGMP Multicast 🔽
DNS	Enable WAN Service 🔽
DSL	
Diagnostics	Service Name: br_0_33
Management	
	Back Next

Figure 3-38

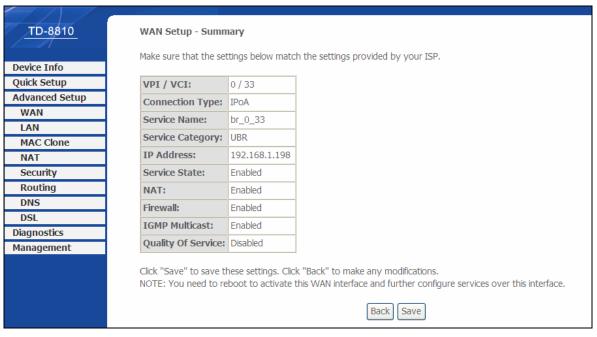


Figure 3-39

> Bridging

If you select the Bridging protocol, you just open the bridge service function options, you will see the Figure 3-40, then click the **next** button, you will see the Figure 3-41, finally click **save** to complete the configuration.

TD-8810	
10-0010	Unselect the check box below to disable this WAN service
Device Info	
Quick Setup	Enable Bridge Service: 🔽
Advanced Setup	Service Name: br_0_33
WAN	
LAN	
MAC Clone	
NAT	Back
Security	
Routing	
DNS	
DSL	
Diagnostics	
Management	

Figure 3-40

<u>TD-8810</u>	WAN Setup - Sumn	nary	
	Make sure that the set	ttings below ma	tch the settings provided by your ISP.
Device Info			4
Quick Setup	VPI / VCI:	0 / 33	
Advanced Setup	Connection Type:	Bridge	
WAN	Service Name:	br_0_33	
LAN	Comico Catagony	UBR	
MAC Clone	Service Category:		
NAT	IP Address:	Not Applicable	
Security	Service State:	Enabled	
Routing	NAT:	Enabled	
DNS	Firewall:	Enabled	
DSL	IGMP Multicast:	Not Applicable	
Diagnostics			
Management	Quality Of Service:	Disabled	
			ick "Back" to make any modifications. e this WAN interface and further configure services over this interface.
			Back Save

Figure 3-41

P Note:

After you complete any setup, the new setup must be saved and the Router must be restarted for the configuration to go into effect. Please click the **Save/Reboot** button to restart, referring to the Figure 3-42.

	Wide Area	Network	(WAN) Se	tup								
Device Info				-	AN interfaces.							
Quick Setup	Choose Sav	e/Rebool	to apply the	changes ar	nd reboot the	system.						
Advanced Setup	VPI/VCI	Con. ID	Category	Service	Interface	Protocol	MTU	Igmp	QoS	State	Remove	Edit
WAN	0/32	1	UBR	br_0_32	nas_0_32	Bridge	1500	N/A	Disabled	Enabled		Edit
LAN							10000	100	23.17.7		100	
MAC Clone	1/33	1	UBR	br_1_33	nas_1_33	Bridge	1500	N/A	Disabled	Enabled		Edit
NAT	0/35	1	UBR	br_0_35	nas_0_35	Bridge	1500	N/A	Disabled	Enabled		Edit
Security	0/100	1	UBR	br 0 100	nas 0 100	Bridge	1500	N/A	Disabled	Enabled		Edit
Routing			ODIX	01_0_100	1105_0_100	bridge	1000	14/14	Disabled	Endbled	-	Euk
DNS	8/35	1	UBR	br_8_35	nas_8_35	Bridge	1500	N/A	Disabled	Enabled		Edit
DSL	8/81	1	UBR	br_8_81	nas_8_81	Bridge	1500	N/A	Disabled	Enabled		Edit
Diagnostics				1. 0.000		P. Law			al de la de			
Management	0/200	1	UBR	br_0_200	nas_0_200	Bridge	1500	N/A	Disabled	Enabled		Edit

Figure 3-42

PNote:

All of the above setup is under windows XP OS.

3.5.1 DHCP IP Reservation

When you specify a reserved IP address for a PC on the LAN, that PC will always receive the same IP address each time when it accesses the DHCP server. Reserved IP addresses should be assigned to servers that require permanent IP settings.

To setup an Address Reservation entry:

PNote:

- 1. DHCP IP Reservation are not available for the connection type of Bridge here, they won't display on the screen below since only Bridge is selected.
- 2. DHCP IP Reservation are not available for the connection type of PPPoE with PPP IP Extension function selected, and they won't display on the screen below since PPP IP Extension is selected.

Choose "Advanced Setup" \rightarrow "LAN", and you will see the LAN screen, the section allows you to configure the Router's LAN ports settings, and you can configure the DHCP IP Reservation function in this screen.

Local Area Network (L/	AN) Setup
Configure the DSL Router	IP Address and Subnet Mask for LAN interface. Save button only saves the Gave/Reboot button saves the LAN configuration data and reboots the router
IP Address:	192.168.1.1
Subnet Mask:	255.255.255.0
 Enable UPnP 	
 Enable IGMP Snoopin Standard Mode Blocking Mode 	ng
O Disable DHCP Server	
 Enable DHCP Server 	
Start IP Address:	192.168.1.2
End IP Address:	192.168.1.254
Leased Time (hour):	24
Set Address Reserv	ation
Configure the secon	Id IP Address and Subnet Mask for LAN interface Save Save/Reboot

Figure 3-25

1. Click the **Set Address Reservation** button, and the **Address Reservation** screen pop up, as it showed below;

Address Reservation Notice: Your configuration won't ta			t unless	the ADSL	router is rebooted.
ID MA	C Address	IP Address	State	Remove	e
New Entry Enal		Enable All	Disab	ole All	Remove All
Save/Reboot		oot		Bac	k



2. Click **New Entry** button to add new entries, and the screen showed below pop up, you can modify an address reservation entry in this screen;

Address Reservatio Add or Modify a Addre	9
MAC Address: (xccxccccccccxx)	00:13:8F:A9:E6:CA
Reserved IP Address:	192.168.1.100
States:	Enable 🗸
Save	Back

Figure 3-27

3. Type the MAC Address (00:13:8F:A9:E6: CA for instance) of the computer which you want to reserve an IP (192.168.1.100 for instance) for in the **MAC Address** text box;

4. Type the IP Address (192.168.1.100 for instance) you have reserved in the **Reserved IP Address** text box;

5. Click **save** button to save the settings you have set;

Note:

The MAC Address and IP Address added in the text box used for illustrating. That may be different to your circs.

6. When you have saved the settings, the new entry will added to the **Address Reservation** screen showed below.

ID MAC Address IP Address State Removing 0 00:13:8f:a9:e6:ca 192.168.1.100 Image: Calification of the state	Ada Voti Your	
0 00:13:8f:a9:e6:ca 192.168.1.100 🔽 Enable Remov	ID	
	0	
New Entry Enable All Disable All Remove Al	ſ	
Save/Reboot Back	Save/Reboot	

Figure 3-28

7. Click **Save/Reboot** button to save the settings and reboot the router.

Note:

The function won't take effect until the router reboots.

3.5.2 DNS

When you select the connection type **PPPoE**, **PPPoA**, **MER** or **IPoA** for WAN configuration, you will see the **DNS** menu in the Web-based Utility (shown in Figure 3-29). It includes **DNS Server** and **Dynamic DNS** submenus.

TD-8810	DNS Server Configuration
	If 'Enable Automatic Assigned DNS' checkbox is selected, this router will accept the first received DNS assignment from one of the
Device Info	PPPoA, PPPoE or MER/DHCP enabled PVC(s) during the connection establishment. If the checkbox is not selected, enter the
Quick Setup	primary and optional secondary DNS server IP addresses. Click 'Save' button to save the new configuration. You must reboot
Advanced Setup	the router to make the new configuration effective.
WAN	
LAN	Enable Automatic Assigned DNS
MAC Clone	
NAT	
Security	
Routing	
DNS	
DNS Server	Save
Dynamic DNS	Save
DSL	
Diagnostics	
Management	

Figure 3-29

3.5.2.1. DNS Server

Choose "Advanced Setup" \rightarrow "DNS" \rightarrow "DNS Server". You can see the DNS Server screen, this screen allows you to configure the DNS Server Addresses (shown in Figure 3-30).

DNS Server Configu	iration
first received DNS as PVC(s) during the cor primary and optional	Assigned DNS' checkbox is selected, this router will accept the signment from one of the PPPoA, PPPoE or MER/DHCP enabled nection establishment. If the checkbox is not selected, enter the secondary DNS server IP addresses. Click 'Save' button to save h. You must reboot the router to make the new configuration
🗌 Enable Automat	c Assigned DNS
Primary DNS server: Secondary DNS serve	202.96.134.133 r:
	Save

Figure 3-30

If you select **Enable Automatic Assigned DNS**, this Router will accept automatically the first received DNS assignment from one of **PPPOA**, **PPPOE** or **MER/DHCP** enabled PVC(s) during the connection established process. If the checkbox is not selected, please enter the primary and/or optional secondary DNS server IP addresses provided by your ISP. Then click the **Save** button to save the new configuration.

Note:

You have to reboot the Router to make the new configuration take effect.

3.5.2.2. Dynamic DNS

Choose "Advanced Setup" \rightarrow "DNS" \rightarrow "Dynamic DNS", you can see the Dynamic DNS screen, this screen allows you to configure the Dynamic DNS (shown in Figure 3-31).

The Router offers a Dynamic Domain Name System (**DDNS**) feature. DDNS lets you assign a fixed host and domain name to a dynamic Internet IP Address. The Dynamic DNS service allows you to alias a dynamic IP address to a static hostname in any of the many domains, allowing your Router more easily accessed from various locations on the Internet.

Dynamic DNS					
The Dynamic DNS service allows you to alias a dynamic IP address to a static hostname in any of the many domains, allowing your DSL router to be more easily accessed from various locations on the Internet.					
Choose Add or Remove to configure Dynamic DNS.					
Hostname	Username	Service	Interface	Remove	
Alsblog.homeunix.net	nacy	dyndns	ppp_8_35_1		
Add Remove					

Figure 3-31

To setup DDNS, follow these instructions:

1. Click the **Add** button (pop-up Figure 3-31), then you will set the DDNS in the next screen (shown in Figure 3-32).

Add dynamic DNS	
This page allows you to add a Dynami	c DNS address from DynDNS.org,TZO or No-IP.
D-DNS provider DynDNS.org DynDNS.org TZO No-IP Hostname Alsblog.homeunix.net	
Interface br_8_35/ppp_8_35_1 🗸	
DynDNS Settings	
Username nacy	
Password	
S	Save/Apply

Figure 3-32

Note:

This page allows you to add a Dynamic DNS address from DynDNS.org, TZO or No-IP.

2. Select **D-DNS provider** (DynDNS.org,TZO or No-IP) in the drop-down list.

- 3. Enter the Hostname of the DNS Server, and select the corresponding Interface for the DDNS, you can leave it default.
- 4. Type the **User Name** and **Password** for your DDNS account.
- 5. Click the **Save/Apply** button to save the entry.

3.6 Software Dial

If TD-8810 CPE work in bridged (RFC 1483 Bridged) mode when it connecting Internet. You must install dial software on your PC. There are some software working on WINDOWS in market, example for EnterNet3000、RASPPPoE、WinPeET.

How do I set up the connection in the windows XP?

- The users of Windows XP can click the "start->All Programs->Accessories-> Communications->New connection wizard", then click Next to enter the configuration page.
- Please you select the "connect to the internet", and then click the Next button to enter the next page and select the "set up my connection manually", click Next to enter the next page.
- Please select the "connect using a broadband connection that requires user name and password", click Next to type the name of your ISP in the current page, and then click Next.
- Enter an ISP account name and password, if you have forgotten an existing account name or password, please connect with your ISP, and click Next.
- To create the connection and close this wizard, click finish to add a shortcut to this connection to your desktop.
- When you assess the internet by ADSL, double-click this shortcut of dial connection in your desktop, enter the account name and password, then click **connect** to connect the internet.

Chapter 4. Advantage management setup

In order to satisfy our customer's needs we offer an excellent Web management interface. Feel free to utilize the Advantage application and online software upgrades. The functions of the Web management interface are as follows:

- Upgrade software
- Modify the default IP address of the port of LAN(192.168.1.1)
- Modify the login password
- Configure DHCP
- > Check the information of IP and the operation status
- Configure the NAT function
- Configure the DNS parameters
- Configure Security rule
- Configure DSL parameter

Appendix A: FAQ

- 1. What related parameters are required to acquire ISP when you want to access the internet by ADSL Router?
 - 1) Dial user: Connection protocol, User name, Password, Value of VPI/VCI, Encapsulation mode of AAL5 and so on.
 - 2) Static IP user: Connection protocol, WAN IP Address, Subnet Mask, Gateway, Value of VPI/VCI, Encapsulation mode of AAL5 and so on.

2. About Connection protocol, VCI/VPI, Encapsulation mode of AAL5

- This product supports the PPP protocol over ATM (PPPoA), PPP over Ethernet (PPPoE), MAC Encapsulation Routing (MER), IP over ATM (IPoA) and Bridging. You may be used with any one of the five protocols above. Because the ISP in different areas supports different protocol, you must choose the protocol which is supported by your ISP.
- 2) The VPI is the English abbreviation of the Virtual Path Identifier, the VCI is the English abbreviation of the Virtual Channel Identifier, the value of VCI/VPI must be compatible with the value that provided by ISP.
- 3) Encapsulation mode of AAL5 include: LLC/SNAP and VC_MAX(often using LLC/SNAP).

3. Why the LAN's and the NIC's LED both bright, but the configuration interface is inaccessible?

- 1) Use the order of **ping 192.168.1.1** to check the Accuracy of connection.
- 2) Check the Accuracy of working NIC.
- Whatever the setup of the IP address on your computer (if you close the DHCP function, you can't obtain the IP address automatically, must specify the IP address of your computer manually).
- 4) Run the winipcfg order in the windows 95/98(run the ipconfig order in the windows 2000) to check whether setup the IP address, subnet mask, default gateway by DHCP.
- 5) Resume the ADSL Modem default configuration if necessary.

4. Have complete all configurations, but can't dial through computer

- 1) Check the indicator of ADSL, it should be working in normally.
- Check the accuracy of parameter of value of VPI/VCI, Encapsulation mode of AAL5 and so on, whether you need to install the dial software, such as Winpoet, Enternet.

- 3) This product has the PPP dial procedure inside, so you will not need to use the dial software if your protocol is PPPoA or PPPoE, ADSL Modem will connect automatically.
- 4) You can check whether your ADSL Modem succeeds in connection with **PING** command.

Appendix B: Default Config

User name	admin	
Password	admin	
IP Address	192.168.1.1	