TP-LINK®

User Guide

TD-8811

ADSL2+ Modem Router



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http://www.tp-link.com

FCC STATEMENT

FC

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.

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.

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Package Contents

The following items should be found in your package:

- > One TD-8811 ADSL2+ Modem Router
- > One Power Adapter for TD-8811 ADSL2+ Modem Router
- > One Resource CD for TD-8811 ADSL2+ Modem Router, including:
 - This Guide
 - Quick installation Guide Program
 - Other Helpful Information
- > Quick installation Guide
- > One RJ45 cable
- > Two RJ11 cables
- > One USB cable
- > One ADSL splitter

P Note:

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

Chapter 1. Introduction

Thank you for choosing the TD-8811 ADSL2+ Modem 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-8811 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-8811 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-8811 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
- > Supports ADSL dual latency (fast path and interleaved path)

1.3 Supporting Protocol

- ANSI T1.413
- G.992.1 (G.dmt) Annex A
- G.992.2 (G.lite) Annex A
- G.992.3 (ADSL2) Annex A and Annex L (RE-DSL) compliant
- G.992.5 (ADSL2+) Annex A and Annex L (RE-DSL) compliant

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

PNote:

"*" 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 ℃~40 ℃
- Storage temperature: -40 °C ~70 °C
- Humidity: 10%~90% (non-condensing)

1.8 Conventions

The Router or TD-8811, or device mentioned in this User Guide stands for TD-8811 ADSL2+

Modem 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

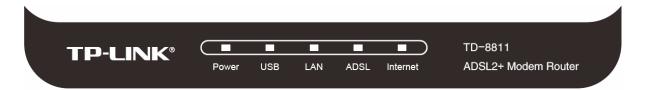
The TD-8811 maintains three separate interfaces, one Ethernet, one ADSL and one power adapter interface.

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.

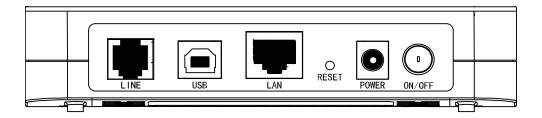
2.1.1 LED explanation



The front panel of ADSL Router includes one power indicator and four function indicators, as explained in the table below:

Name	Status	Indication	
Power	On	Power is on.	
Power	Off	Power is off.	
	On	There is a successful connection on USB port but no activity.	
USB	Flash	Data is being transferred over the USB connection.	
	Off	There is no connection on USB port or the connection is abnormal.	
	On	There is a successful connection on the LAN port but no activity.	
LAN Flash Data is being transferred over the LAN port		Data is being transferred over the LAN port	
	Off	There is no connection on the LAN port or the connection is abnormal.	
	On	The LINE port is linked up.	
ADSL	Flash	The ADSL negotiation is in progress.	
	Off	The LINE port is linked down.	
	On A successful PPP connection has been built.		
Internet Flash Data is being transferred over the Internet on PPP mode.		Data is being transferred over the Internet on PPP mode.	
	Off	There is no successful PPP connection or the Router works on Bridge mode.	

2.2 Rear-panel



- > **ON/OFF**: Turn on/off the ADSL Router's power.
- POWER: Please use the provided power adaptor, otherwise may cause damage to the ADSL Router.
- RESET (reset default): Press the RESET button and hold for five seconds and then wait for the router to reboot to its factory default settings.
- > LAN: Connect to your computer with RJ45 cable.
- > **USB**: Connect with your computer's USB interface.
- > 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 the following steps:

First Step: Connect the MODEM port of Splitter with the LINE port of the TD-8811 ADSL2+ Modem Router by telephone line.

Second Step: Connect category 5 cable with RJ45 jacks to ADSL2+ Modem Router's LAN port and your computer's NIC. Or connect USB cable to ADSL2+ Modem Router's USB port and your computer's USB interface.

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

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

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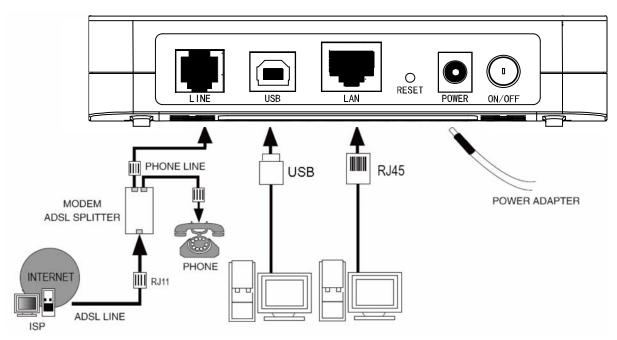


Figure 2-1

Chapter 3. Quick Installation Guide

3.1 Computer Configuration

After you directly connect your PC to the TD-8811 or connect your adapter to a Hub/Switch which has connected to the Router, you need to configure your PC's IP address. Now you have two ways to configure the TCP/IP protocol below:

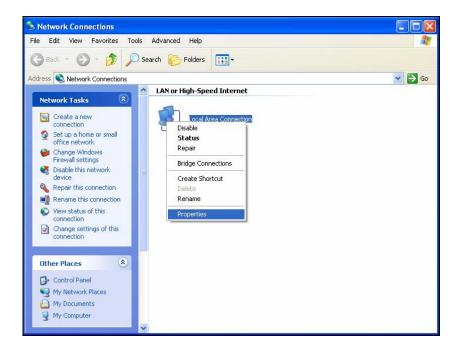
> Setting IP address automatically

Step 1: Click the Start menu on your desktop, right click My Network Places, and then select Properties (shown in Figure 3-1).



Figure 3-1

Step 2: Right click Local Area Connection (LAN), and then select Properties.





Step 3: Select **General** tab, highlight Internet Protocol (TCP/IP), and then click the **Properties** button.

🕹 Local Area Connection Properties 🛛 🔗 🔀			
General Authentication Advanced			
Connect using:			
Realtek RTL8139 Family PCI Fast Etł			
This connection uses the following items:			
 Client for Microsoft Networks File and Printer Sharing for Microsoft Networks QoS Packet Scheduler 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.			
 Show icon in notification area when connected Notify me when this connection has limited or no connectivity 			
OK Cancel			

Figure 3-3

Step 4: Select "Obtain an IP address automatically" and "Obtain DNS server address automatically" in the screen below. And then click **OK**.

Internet Protocol (TCP/IP) Properties				
General				
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.				
⊙ <u>O</u> btain an IP address automatica	lly			
Use the following IP address: —				
IP address:				
S <u>u</u> bnet mask:				
Default gateway:				
⊙ Obtain DNS server address automatically				
OUse the following DNS server addresses:				
Preferred DNS server:				
Alternate DNS server:				
	Ad <u>v</u> anced			
	OK Cancel			

Figure 3-4

Setting IP address manually

The default IP address of the ADSL2+ Modem Router is 192.168.1.1, and the default Subnet Mask is 255.255.255.0. These values can be seen from the LAN, and can be changed as your desire. As an example, we use the default values for description in this guide.

Step 1: Select Use the following IP address radio button in the next screen.

- Step 2: Enter the IP address as 192.168.1.* (* is any value between 2 to 254). The Subnet mask is 255.255.255.0. Then type the ADSL Router's LAN IP address 192.168.1.1 into the Default gateway field.
- Step 3: Select Use the following DNS server addresses radio button. In the Preferred DNS Server field you can enter the same value as the Default gateway or type the local DNS server IP address.

Internet Protocol (TCP/IP) Properties					
General					
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.					
O <u>O</u> btain an IP address automatically	,				
Use the following IP address:					
IP address:	192.168.1.2				
S <u>u</u> bnet mask:	255 . 255 . 255 . 0				
<u>D</u> efault gateway:	192.168.1.1				
O Obtain DNS server address automatically					
O Use the following DNS server addresses:					
Preferred DNS server:	192.168.1.1				
<u>A</u> lternate DNS server:	· · ·				
	Ad <u>v</u> anced				
	OK Cancel				

Figure 3-5

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).

3) The words in fact may be different with this guide.

Now, you can run the Ping command in the command prompt to verify the network connection. Please click the **Start** menu on your desktop, select **Run** tab, type **cmd** in the field, and then type *ping 192.168.1.1* on the next screen, and then press **Enter**.

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 = 0ms, Maximum = 0ms, Average = 0ms
```

Figure 3-6

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 3-7

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, the following login box will pop up.

Connect to 192	2.168.1.1 🔹 🔀
	GA
DSL Router	
User name:	🖸 admin 🔽
Password:	••••
	Remember my password
	OK Cancel

Figure 3-8

3.3 Quick Setup

TP-LINK [®]				
<u>TD-8811</u>	Device Info			
Device Info	Board ID:	96338	3L-2M-8M	
Quick Setup	Firmware Version:	3.06L	.03-T1.0a-090)403.A2pB021c_b0.d17m
Advanced Setup	Bootloader (CFE) Version:	1.0.37	7-10.1	
Diagnostics Management	This information reflects the current status of your DSL connection.			
	Line Rate - Upstream (Kbp	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	

Figure 3-9 is the main page of the Router.



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

<u>TD-8811</u>	Quick Setup
	This Quick Setup will guide you through the steps necessary to configure your DSL Router.
Device Info	ATM PVC Configuration
Quick Setup Advanced Setup	ATM PVG Conliguiation
Diagnostics	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.
Management	VPI: [0-255] 8
	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 3-10

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-8811</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)			
	O IP over ATM (IPOA)			
	O Bridging			
	Encapsulation Mode			
	VC/MUX			
	Back			

Figure 3-11

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] : 1480			
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			

Figure 3-12

c) Click Save/Reboot.

WAN Setup - Summary

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

VPI / VCI:	8 / 35
Connection Type:	PPPOA
Service Name:	br_8_35
Service Category:	UBR
IP Address:	Automatically Assigned
Service State:	Enabled
NAT:	Enabled
Firewall:	Enabled
IGMP Multicast:	Enabled
Quality Of Service:	Disabled

Click "Save/Reboot" to save these settings and reboot router. Click "Back" to make any modifications.

NOTE: The configuration process takes about 1 minute to complete and your DSL Router will reboot.



Figure 3-13

3.3.2 PPPoE

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

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TD-8811	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			

Figure 3-14

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

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PPP Userna	ime and Pa	ssword
		you have a user name and password to establish your connection. In he user name and password that your ISP has provided to you.
PPP Usernan	ne:	
PPP Passwor	d:	
PPPoE Servio	ce Name:	
Authenticatio	n Method:	AUTO
MTU [512-19	500]:	1480
🔽 Dial on (demand (wit	h idle timeout timer)
Inactivity Tin	neout (minui	tes)[1-4320]: 15
PPP IP (extension	
📃 Use Sta	tic IP Addres	Si Circle Aller
🔲 Enable F	PP Debug N	Mode
		Back

Figure 3-15

c) Click Save/Reboot.

WAN Setup - Summary

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

VPI / VCI:	8 / 35
Connection Type:	PPPOE
Service Name:	br_8_35
Service Category:	UBR
IP Address:	Automatically Assigned
Service State:	Enabled
NAT:	Enabled
Firewall:	Enabled
IGMP Multicast:	Enabled
Quality Of Service:	Disabled

Click "Save/Reboot" to save these settings and reboot router. Click "Back" to make any modifications.

NOTE: The configuration process takes about 1 minute to complete and your DSL Router will reboot.



Figure 3-16

P 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.

TD-8811 ADSL2+ Modem Router User Guide

<u>TD-8811</u>	Connection Type
	Select the type of network protocol for IP over Ethernet as WAN interface
Device Info	VI. I MARKAN PROFESSION AND AND
Quick Setup	O PPP over ATM (PPPoA)
Advanced Setup	Statements streets at according to all
Diagnostics	O PPP over Ethernet (PPPoE)
Management	MAC Encapsulation Routing (MER)
	O IP over ATM (IPoA)
	Encapsulation Mode
	LLC/SNAP-BRIDGING 🔽
	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
 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: br_8_35/nas_8_35 v
 Obtain DNS server addresses automatically
 Use the following DNS server addresses:
Primary DNS server:
Secondary DNS server:
Back Next

Figure 3-17

c) Click Save/Reboot.

WAN Setup - Summary

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

VPI / VCI:	8/35
Connection Type:	MER
Service Name:	br_8_35
Service Category:	UBR
IP Address:	Automatically Assigned
Service State:	Enabled
NAT:	Enabled
Firewall:	Enabled
IGMP Multicast:	Enabled
Quality Of Service:	Disabled

Click "Save/Reboot" to save these settings and reboot router. Click "Back" to make any modifications.

NOTE: The configuration process takes about 1 minute to complete and your DSL Router will reboot.



Figure 3-18

3.3.4 IPoA

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

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	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			

Figure 3-19

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.	
Device Info		
Quick Setup	Notice: DHCP is not supported in IPoA mode. Changing the default gateway or the DNS effects	
Advanced Setup	the whole system. Configuring them with static values will disable the automatic assignment	
Diagnostics	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: br_8_35/ipa_8_35 🗸	
	Use the following DNS server addresses:	
	Primary DNS server:	
	Secondary DNS server:	
	Back	

Figure 3-20

c) Click Save/Reboot.

WAN Setup - Summary

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

VPI / VCI:	8 / 35	
Connection Type:	IPoA	
Service Name:	br_8_35	
Service Category:	UBR	
IP Address:	192.168.1.184	
Service State:	Enabled	
NAT:	Enabled	
Firewall:	Enabled	
IGMP Multicast:	Enabled	
Quality Of Service:	Disabled	

Click "Save/Reboot" to save these settings and reboot router. Click "Back" to make any modifications.

NOTE: The configuration process takes about 1 minute to complete and your DSL Router will reboot.



Figure 3-21

3.3.5 Bridging

a) Select **Bridging** Connection Type, and click **Next.**

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	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) 			
	O IP over ATM (IPoA)			
	Encapsulation Mode LLC/SNAP-BRIDGING			
	Back			

Figure 3-22

b) Click Save/Reboot.

WAN Setup - Summary

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

VPI / VCI:	8 / 35	
Connection Type:	Bridge	
Service Name:	br_8_35	
Service Category:	UBR	
IP Address:	Not Applicable	
Service State:	Enabled	
NAT:	Disabled	
Firewall:	Disabled	
IGMP Multicast:	Not Applicable	
Quality Of Service:	e: Disabled	

Click "Save/Reboot" to save these settings and reboot router. Click "Back" to make any modifications.

NOTE: The configuration process takes about 1 minute to complete and your DSL Router will reboot.



Figure 3-23

P Note:

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

3.4 Change Password

You will then see the Figure 3-24, which displays some information such as link rate and so on.

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<u>TD-8811</u>	Device Info				
Device Info	Board ID:	96338	BL-2M-8M		
Quick Setup	Firmware Version:	3.06L	3.06L.03-T1.0a-090403.A2pB021c_b0.d17m		
Advanced Setup	Bootloader (CFE) Versior	n: 1.0.3)	1.0.37-10.1		
Diagnostics Management	This information reflects the current status of your DSL connection.				
	Line Rate - Upstream (Kb	ps):			
	Line Rate - Downstream	(Kbps):			
	LAN IP Address:		192.168.1.1		
	Default Gateway:		192.168.1.1		
	Primary DNS Server:		192.168.1.1		
	Secondary DNS Server:		192.168.1.1		

Figure 3-24

Default value of user name and password is "admin"; if you want to change them, please go to **"Management"** → **"Access control"**→**"Password**" changing them. (Figure 3-25)

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



3.5 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:

P Note:

- 1. DHCP IP Reservation is 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 is 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.

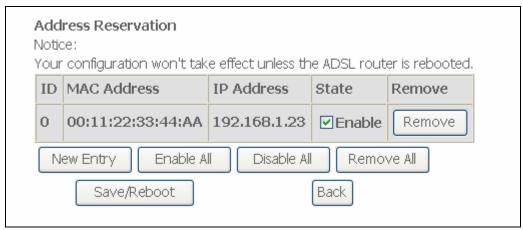
Choose "Advanced Setup" \rightarrow "LAN", and you will see the LAN screen, the section allows you to configure the Router's LAN ports settings, and you can configure the DHCP IP Reservation function in this screen.

Local Area Network (LAN) Setup							
button only saves the L	AN configura	s and Subnet Mask for LAN interface. Save ition data. Save/Reboot button saves the the router to make the new configuration					
IP Address:	192,168,1,3	1					
Subnet Mask : 255.255		i5.0					
 Disable DHCP Serve Enable DHCP Serve Start IP Address: End IP Address: 		192.168.1.100 192.168.1.200					
Leased Time (hour)	:	24					
Set Address Reser	vation						
Configure the second		and Subnet Mask for LAN interface Save/Reboot					

Figure 3-25

1. Click the Set Address Reservation button, and the Address Reservation screen pop up,

as it showed below:





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 Reservation Configure Add or Modify an Address Reservation Entry				
(XXXXXXXXXXXXXXXX)				
Reserved IP Address: State:	192.168.1.23			
Save Ba	ack			

Figure 3-27

3. Type the MAC Address (00:11:22:33:44:AA for instance) of the computer which you want to reserve an IP (192.168.1.23 for instance) for in the **MAC Address** text box;

4. Type the IP Address (192.168.1.23 for instance) you have reserved in the **Reserved IP Address** text box;

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

PNote:

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.

Address	Reservation			
/our.conf	guration won't tak	e effect unless th	e ADSL rout	er is rebooted.
ID MAG	Address	IP Address	State	Remove
0 00:1	1:22:33:44:AA	192.168.1.23	⊡Enable	Remove
New Entry Enable Al		II Disable All	Remo Back	ve All



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

PNote:

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

3.6 USB Configuration

If you use the USB interface, firstly, you must install the USB driver to the computer. You can obtain the drives from the provided CD or download from our website. (<u>http://www.tp-link.com</u>)

USB Drive installation procedures

If the hardware is installed before the computer is Power On. Please turn on the computer and enter the operating system, Then the operating system will identify the device. If the hardware is installed after the computer is Power On, the desktop will display the information about finding the new hardware.

 You will see the Figure 3-26 requiring install software for USB Device, select "Install from a list or specific location (Advanced)" and click **Next** to continue.

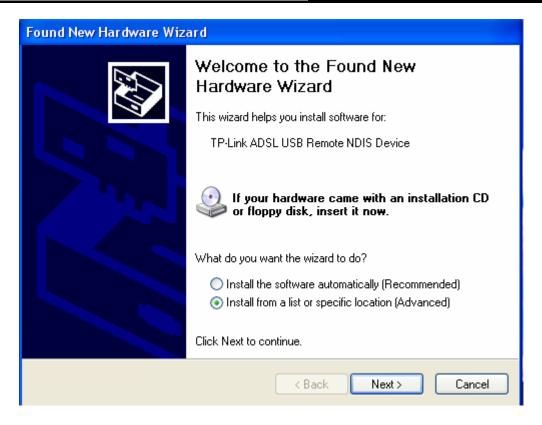


Figure 3-26

2) After that, the Figure 3-27 will display. Select the "search removable media(floppy, CD-ROM···)" and click **Next**.

Found New Hardware Wizard				
Please choose your search and installation options.				
 Search for the best driver in these locations. 				
Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed.				
Search removable media (floppy, CD-ROM)				
Include this location in the search:				
E:\Documents and Settings\zff\Desktop\tp-adsl-usb 🕑 Browse				
O Don't search. I will choose the driver to install.				
Choose this option to select the device driver from a list. Windows does not guarantee that the driver you choose will be the best match for your hardware.				
<pre>< Back Next > Cancel</pre>				

Figure 3-27

3) Then Figure 3-28 is available. The driver will be searched and installed.

P Note:

You must insert the CD first.

Found New H	lardware Wizard
Please wa	it while the wizard searches
E	TP-Link ADSL USB Remote NDIS Device
	< Back Next > Cancel

Figure 3-28

4) After that, you will see the Figure 3-29. Click **Finish** to complete the installation.



Figure 3-29

Please refer to <u>chapter 3.1</u> to finish the IP configuration for USB connect. Then you could use the USB device.

P Note:

- 1) All of the above settings are under windows XP.
- 2) If you want to pull out the USB device you must disconnect the network of USB first.

Chapter 4. Web-based Configuration

4.1 Device Info

The Device Info page provides the current information about the ADSL2+ Modem Router. All information is read-only.

TP-LINK [®]				
<u>TD-8811</u>	Device Info			
Device Info	Board ID:	96338	L-2M-8M	
Summary	Firmware Version:	3.06L.	03-T1.0a-090	0403.A2pB021c_b0.d17m
WAN	Bootloader (CFE) Version:	1.0.37	-10.1	
Statistics Route ARP	This information reflects the cur	rent st	atus of your E	DSL connection.
DHCP	Line Rate - Upstream (Kbps	s):		
Quick Setup	Line Rate - Downstream (K	bps):		
Advanced Setup	LAN IP Address:		192.168.1.1	
Diagnostics	Default Gateway:		192.168.1.1	
Management	Primary DNS Server:		192.168.1.1	
	Secondary DNS Server:		192.168.1.1	

Figure 4-1

The information about the **Summary, WAN, Statistics, Route, ARP,** and **DHCP** are all displayed. Click each of them, and you can get the detailed information.

4.2 Quick Setup

Please refer to 3.3 Quick Setup.

4.3 Advanced Setup

Choose "Advanced Setup", and you can see the submenus as shown in Figure 4-2.

Advanced Setup	
WAN	
LAN	
MAC Clone	
Security	
Routing	
DSL	

Figure 4-2

4.3.1 WAN

Choose "Advanced Setup" \rightarrow "WAN", and you will see the page of Wide Area Network (WAN) Setup as shown in Figure 4-3.

TD-8811	Wide Area	Netwo	ork (WAN)	Setup								
	Choose Add	, Edit,	or Remove t	o configur	e WAN inter	faces.						
Device Info	Choose Sav	e/Rebo	ot to apply	the chang	es and rebo	ot the syste	em.					
Quick Setup												
Advanced Setup	VPI/VCI	Con.	Category	Service	Interface	Protocol	мтн	Igmp	QoS	State	Remove	Edit
WAN	VF1/ VG1	ID	Gategory	OCIVICC	Interface	FIOLOCOI		rginp	200	Juic	Remove	Lait
LAN	0/33	1	UBR	br 0 33	nas_0_33	Bridge	1500	N/A	Disabled	Enabled		Edit
MAC Clone	· · · · · · · · · · · · · · · · · · ·											
Security	0/35	1	UBR	br_0_35	nas_0_35	Bridge	1500	N/A	Disabled	Enabled		Edit
Routing												
DSL	8/35	1	UBR	br_8_35	nas_8_35	Bridge	1500	N/A	Disabled	Enabled		Edit
)iagnostics	8/48	1	UBR	br_8_48	nas_8_48	Bridge	1500	N/A	Disabled	Enabled		Edit
4anagement												
	Add Remove Save/Reboot											

Figure 4-3

There are 4 PVC links in the **WAN** setup page. Click the **Add** button or choose the appropriate PVC according to your need. Then you will enter the page of **ATM PVC Configuration** as shown in Figure 4-4.

TD-8811	
Device Info	
Quick Setup	
Advanced Setup	
WAN	
LAN	ATM PVC Configuration
MAC Clone	This screen allows you to configure an ATM PVC identifier (VPI and VCI) and select a service category. Otherwise
Security	choose an existing interface by selecting the checkbox to enable it.
Routing	
DSL	VPI: [0-255] 8
Diagnostics	VCI: [32-65535] 35
Management	
	Service Category: UBR Without PCR 🗸
	Enable Quality Of Service
	Enabling packet level QoS for a PVC improves performance for selected classes of applications. QoS cannot be set
	for CBR and Realtime VBR. QoS consumes system resources; therefore the number of PVCs will be reduced. Use Advanced Setup/Quality of Service to assign priorities for the applications.
	Enable Quality Of Service 🔲
	Back



Enter **VPI/VCI** value and service category provided by your ISP. Click **Next** to enter the next step. You will see the Figure 4-5.

<u>TD-8811</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	-
WAN	O PPP over Ethernet (PPPoE)
LAN	 MAC Encapsulation Routing (MER)
MAC Clone	MAC El capsulador Rodulig (MER)
Security	O IP over ATM (IPoA)
Routing	
DSL	Sridging
Diagnostics	
Management	Encapsulation Mode
	LLC/SNAP-BRIDGING
	Back

Figure 4-5

After choosing the proper protocol, enter the correct parameters supported by your ISP. Enable the configurations, and then you will go to the Internet.

PNote:

The type of network protocol selected may be different in different areas. There are five types (Figure 4-5), so you should ask your ISP to acquire the **Connection Type** and **Encapsulation Mode**.

> PPP over ATM (PPPoA)

If you select the protocol of PPP over ATM (PPPoA), you will see the Figure 4-6.

TD-8811	PPP Username and Password
Device Infe	PPP usually requires that you have a user name and password to establish your connection. In the boxes below,
Device Info	enter the user name and password that your ISP has provided to you.
Quick Setup	
Advanced Setup	
WAN	PPP Username:
LAN	PPP Password:
MAC Clone	
Security	Authentication Method:
Routing	MTL [[512-1500] · [1480
DSL	MTU [512-1500] : 1480
Diagnostics	
Management	Dial on demand (with idle timeout timer)
	Inactivity Timeout (minutes) [1-4320]: 15
	PPP IP extension
	Use Static IP Address
	Enable PPP Debug Mode
	Deek Mext
	Back

Figure 4-6

- PPP Username: Enter your username for your PPPoA connection to identify and verify your account to the ISP.
- **PPP Password:** Enter your password for your PPPoA connection.
- Authentication Method: Choose a method of authentication, AUTO, PAP, CHAP, or MSCHAP.
- MTU: The default MTU value is 1480 Bytes. It is not recommended that you change the default value unless required by your ISP. The value should be between 512 and 1500.
- Dial on demand: If you check this box, the Internet connection can be terminated automatically after a specified inactivity period (Inactivity Timeout) and be re-established when you attempt to access the Internet again. The default value of Inactivity Timeout is 15. The value should be between 1 and 4320.

- PPP IP extension: If this box is checked, the IP address obtained by the Router will be assigned to the computer, and the NAT and Firewall will be disabled.
- Use Static IP Address: Check this box to use the static IP address to dial. The default value is disabled.
- Enable PPP Debug Mode: Check this box to enable the debug mode. The default value is disabled.

Click **Next** button in Figure 4-6, and then you will see Figure 4-7. Check or uncheck the **Enable WAN Service** box according to your needs.

<u>TD-8811</u>	Enable WAN Service
Device Info	Enable WAN Service 🔽
Quick Setup	
Advanced Setup	Service Name pppoa_5_35_1
WAN	
LAN	
MAC Clone	
Security	Back
Routing	
DSL	
Diagnostics	
Management	

Figure 4-7

Click the **Next** button to enter the next step as shown in Figure 4-8. Click **Save** to complete the configuration.

<u>TD-8811</u>	WAN Setup - Sumn	hary	
Device Info	Make sure that the set	ttings below match the se	ettings provided by your ISP.
Quick Setup	VPI / VCI:	5/35	
dvanced Setup	Connection Type:	PPPOA	
WAN	Service Name:	pppoa_5_35_1	
LAN	Service Category:		
MAC Clone Security	IP Address:	Automatically Assigned	
Routing	Service State:	Enabled	
DSL	NAT:	Enabled	
)iagnostics	Firewall:	Enabled	
1anagement	IGMP Multicast:	Disabled	
	Quality Of Service:	Disabled	
	Click "Save" to save t	nese settings. Click "Back	 " to make any modifications. N interface and further configure services over this interface.

Figure 4-8

> PPP over Ethernet (PPPoE)

If you select the protocol of PPP over Ethernet (PPPoE), you will see the Figure 4-9.

<u>TD-8811</u>	PPP Username and Password
	PPP usually requires that you have a user name and password to establish your connection. In the boxes below,
Device Info	enter the user name and password that your ISP has provided to you.
Quick Setup	
Advanced Setup	
WAN	PPP Username:
LAN	
MAC Clone	PPP Password:
Security	PPPoE Service Name:
Routing	Authentication Method: AUTO
DSL	
Diagnostics	MTU [512-1500] : 1480
Management	
	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

Figure 4-9

■ **PPP Username:** Enter your username for your PPPoE connection to identify and verify your account to the ISP.

- **PPP Password:** Enter your password for your PPPoE connection.
- **PPPoE Service Name:** Enter a name for the PPPoE connection for recognition.
- Authentication Method: Choose a method of authentication, AUTO, PAP, CHAP, or MSCHAP.
- MTU: The default MTU value is 1480 Bytes. It is not recommended that you change the default value unless required by your ISP. The value should be between 512 and 1500.
- Dial on demand: If you check this box, the Internet connection can be terminated automatically after a specified inactivity period (Inactivity Timeout) and be re-established when you attempt to access the Internet again. The default value of Inactivity Timeout is 15. The value should be between 1 and 4320.
- PPP IP extension: If this box is checked, the IP address obtained by the Router will be assigned to the computer, and the NAT and Firewall will be disabled.
- Use Static IP Address: Check this box to use the static IP address to dial. The default value is disabled.
- Enable PPP Debug Mode: Check this box to enable the debug mode. The default value is disabled.

Click **Next** button in Figure 4-9, and then you will Figure 4-10. Check or uncheck the **Enable WAN Service** box according to your needs.

<u>TD-8811</u>	Enable WAN Service
Device Info	Enable WAN Service 🔽
Quick Setup	
Advanced Setup	Service Name pppoe_5_35_1
WAN	
LAN	
MAC Clone	Pool Nort
Security	Back
Routing	
DSL	
Diagnostics	
Management	

Figure 4-10

Click the **Next** button to enter the next step as shown in Figure 4-11. Click **Save** to complete the configuration.

TD-8811	WAN Setup - Sumn	ary	
Device Info	Make sure that the set	tings below match the se	ettings provided by your ISP.
Quick Setup	VPI / VCI:	5 / 35	
Advanced Setup		PPPoE	
WAN	Service Name:	pppoe_5_35_1	
LAN			
MAC Clone	Service Category:	UBR	
Security	IP Address:	Automatically Assigned	
Routing	Service State:	Enabled	
DSL	NAT:	Enabled	
Diagnostics	Firewall:	Enabled	
Management	IGMP Multicast:	Disabled	
	Quality Of Service:	Disabled	
	Click "Save" to save t	nese settings. Click "Back	" to make any modifications.
	NOTE: You need to re	boot to activate this WA	N interface and further configure services over this interface.
			Back Save

Figure 4-11

> MAC Encapsulation Routing (MER)

If you select the protocol of MAC Encapsulation Routing (MER), you will see the page as shown in Figure 4-12.

<u>TD-8811</u>	WAN IP Settings
	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
Quick Setup	automatically" is chosen.Changing the default gateway or the DNS effects the whole system. Configuring them with
Advanced Setup	static values will disable the automatic assignment from DHCP or other WAN connection.
WAN	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.
LAN	gateway in the ose in address , the ose works intendee is optional.
MAC Clone	Obtain an IP address automatically
Security	O Use the following IP address:
Routing	WAN IP Address:
DSL	WAN Subnet Mask:
Diagnostics	
Management	O Obtain default gateway automatically
	 Use the following default gateway:
	☑ Use IP Address: 192.168.1.1
	Use WAN Interface: mer_5_35/nas_5_35 🗸
	Obtain DNS server addresses automatically
	 Use the following DNS server addresses:
	Primary DNS server:
	Secondary DNS server:
	Back



- Obtain an IP address automatically: Check this radio button to obtain the IP address automatically. This is not recommended by default.
- Use the following IP address: This radio button is checked by default. Enter the

information provided by your ISP to configure the WAN IP settings.

- Obtain default gateway automatically: This radio button is checked by default. It's recommended that you keep the default settings to allow the Router to obtain the default gateway automatically.
- Use the following default gateway: Check this radio button then you can enter the IP address and the WAN interface for the default gateway. This is not recommended by default.
- Obtain DNS server addresses automatically: This radio button is checked by default. It's recommended that you keep the default settings to allow the Router to obtain the default DNS server addresses automatically.
- Use the following DNS server addresses: Check this radio button then you can enter the primary DNS server and secondary DNS server. This is not recommended by default.

P Note:

- DHCP can be enabled for PVC in MER mode as WAN interface if "Obtain an IP address automatically" is chosen.
- Changing the default gateway or the DNS will affect 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.

Click **Next** button in Figure 4-12, and then you will see the Figure 4-13. Check or uncheck the **Enable WAN Service** box according to your needs.

	Network Address Translation Settings
	Network Address Translation (NAT) allows you to share one Wide Area Network (WAN) IP address for multiple
Device Info	computers on your Local Area Network (LAN).
Quick Setup	
Advanced Setup	Enable NAT 🔽
WAN	Enable Firewall 🔽
LAN	
MAC Clone	
Security	Enable WAN Service
Routing	
DSL	Enable WAN Service 🔽
Diagnostics	Service Name: mer_5_35
Management	
	Back Next

Figure 4-13

Click the **Next** button to enter the next step as shown in Figure 4-14. Click **Save** to complete the configuration.

<u>TD-8811</u>	WAN Setup - Sumn	hary	
	Make sure that the set	ttinas below match the se	ettings provided by your ISP.
Device Info		Ŭ	
Quick Setup	VPI / VCI:	5/35	
Advanced Setup	Connection Type:	MER	
WAN	Service Name:	mer_5_35	
LAN	Service Category:	UBR	
MAC Clone Security	IP Address:	Automatically Assigned	
Routing	Service State:	Enabled	
DSL	NAT:	Enabled	
Diagnostics	Firewall:	Enabled	
Management			
	IGMP Multicast:	Disabled	
	Quality Of Service:	Disabled	

Figure 4-14

> IP over ATM (IPoA)

If you select the protocol of IP over ATM (IPoA), you will see the Figure 4-15. Enter the parameters provided by your ISP.

TD-8811	WAN IP Settings
Device Info	Enter information provided to you by your ISP to configure the WAN IP settings.
	Notice; DHCP is not supported in IPoA mode. Changing the default gateway or the DNS effects the whole system.
Quick Setup	Configuring them with static values will disable the automatic assignment from other WAN connection.
Advanced Setup	Configuring a rem war status values will disable a relacionate assignment inform ou ren ward confidencian.
WAN	WAN IP Address: 192,168,1,1
LAN	
MAC Clone	WAN Subnet Mask: 255.255.255.0
Security	
Routing	Vse the following default gateway:
DSL	✓ Use IP Address: 192.168.1.1
Diagnostics	🔲 Use WAN Interface: 🛛 ipoa_5_35/ipa_5_35 🖌
Management	Use the following DNS server addresses:
	Primary DNS server:
	Secondary DNS server:
	Back Next

Figure 4-15

- WAN IP Address: Enter the IP Address provided by your ISP.
- WAN Subnet Mask: Enter the subnet mask provide by your ISP.
- Use the following default gateway: Check this radio button then you can choose Use IP Address or Use WAN Interface. If you have any problems, please ask your ISP for the information.

- Use the following DNS server addresses: Check this radio button then you can enter the primary DNS server and secondary DNS server. If you have any problems, please ask your ISP for the information.
- P Note:
- DHCP is not supported in IPoA mode.
- Changing the default gateway or the DNS will affect the whole system. Configuring them with static values will disable the automatic assignment from other WAN connection.

Click Next in Figure 4-15, and then you will see the Figure 4-16.

<u>TD-8811</u>	Network Address Translation Settings
	Network Address Translation (NAT) allows you to share one Wide Area Network (WAN) IP address for multiple
Device Info	computers on your Local Area Network (LAN).
Quick Setup	
Advanced Setup	Enable NAT 🔽
WAN	Enable Firewall 🔽
LAN	
MAC Clone	
Security	Enable WAN Service
Routing	
DSL	Enable WAN Service 🔽
Diagnostics	Service Name: ipoa_5_35
Management	
	Back

Figure 4-16

Check or uncheck the **Enable WAN Service** box according to your needs. Click the **Next** button to enter the next step as shown in Figure 4-17, and click **Save** to complete the configuration.

TD-8811	HIAN Column		
	WAN Setup - Sumn	пагу	
	Make sure that the se	ttings below m	h the settings provided by your ISP.
Device Info		Ŭ	
Quick Setup	VPI / VCI:	5/35	
Advanced Setup	Connection Type:	IPoA	
WAN	Service Name:	ipoa_5_35	
LAN	Service Category:	UBR	
MAC Clone			
Security	IP Address:	192.168.1.1	
Routing	Service State:	Enabled	
DSL	NAT:	Enabled	
Diagnostics	Firewall:	Enabled	
Management	IGMP Multicast:	Disabled	
	Quality Of Service:	Disabled	

Figure 4-17

> Bridging

If you select the Bridging protocol, you will see the Figure 4-18. Click the **Next** button.

TD-8811			
Device Info	Unselect the check b	ox below to disable th	IS WAN SERVICE
Quick Setup	Enable Bridge Service:		
Advanced Setup	El lable bliuge sel vice.		1
WAN	Service Name:	br_5_35	
LAN			
MAC Clone			
Security			
Routing			Back
DSL			
Diagnostics			
Management			

Figure 4-18

Then you will see the Figure 4-19. Click Save to complete the configuration

and the second		
<u>TD-8811</u>	WAN Setup - Summ	hary
	Make sure that the set	ttings below mat
Device Info		
Quick Setup	VPI / VCI:	5/35
Advanced Setup	Connection Type:	Bridge
WAN	Service Name:	br_5_35
LAN	Service Category:	UBR
MAC Clone	IP Address:	Not Applicable
Security		
Routing	Service State:	Enabled
DSL	NAT:	Enabled
Diagnostics	Firewall:	Enabled
Management	IGMP Multicast:	Not Applicable
	Quality Of Service:	

Figure 4-19

Note:

After completing 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 as shown in Figure 4-20.

			_			~						
Device Info				0	e WAN inter es and rebo		m.					
Quick Setup												
Advanced Setup	VPI/VCI	Con.	Category	Service	Interface	Protocol	мти	Iamn	QoS	State	Remove	Edit
WAN	,	ID	oucegory	0011100	Interface		1110	1 grup	200	otato	rteinore	Lore
LAN	0/33	1	UBR	br 0 33	nas 0 33	Bridge	1500	N/A	Disabled	Enabled		Edit
MAC Clone												
Security	0/35	1	UBR	br_0_35	nas_0_35	Bridge	1500	N/A	Disabled	Enabled		Edit
Routing	0/25		LIDD	br 0.25		Dridge	1500	N1/0	Disabled			Edit
DSL	8/35	1	UBR	Dr_8_35	nas_8_35	Bridge	1500	N/A	Disabled	Enabled		Edit
iagnostics	8/48	1	UBR	br 8 48	nas 8 48	Bridge	1500	N/A	Disabled	Enabled		Edit
anagement												
	5/35	1	UBR	br_5_35	nas_5_35	Bridge	1500	N/A	Disabled	Enabled		Edit
Management												

Figure 4-20

P Note:

All of the above setup is under windows XP OS.

4.3.2 LAN

Choose "Advanced Setup→LAN" menu, and you can see and configure the Local Area

Network (LAN) parameters in the screen as shown in Figure 4-21.

Local Area Network	.AN) Setup				
0					
configuration data. SaveyReboot batton saves the EXP configuration data and reboots the rotater to make the new					
IP Address:	192.168.1.1				
Subnet Mask:	255.255.255.0				
•					
· · · · · · · · · · · · · · · · · · ·					
Start IP Address:	192.168.1.	58.1.100			
End IP Address:	192.168.1.	58.1.200			
Leased Time (hou	24				
Set Address Res	vation				
Configure the seco	IP Address and Subnet	Ibnet Mask for LAN interface			
	[c.				
	Sa	Save Save/Rebool			
	Configure the DSL Route configuration data. Save configuration effective. IP Address: Subnet Mask: Disable DHCP Serve Enable DHCP Server Start IP Address: End IP Address: Leased Time (hour): Set Address Reserver	configuration data. Save/Reboot button sa configuration effective. IP Address: 192.168.1.1 Subnet Mask: 255.255.255.0 Image: Disable DHCP Server Image: DHCP Server Start IP Address: 192.16 End IP Address: 192.16 Leased Time (hour): 24 Set Address Reservation 100	Configure the DSL Router IP Address and Subnet Mask for LAN interface. Save button only saves the LAN configuration data. Save/Reboot button saves the LAN configuration data and reboots the router to make the new configuration effective. IP Address: 192.168.1.1 Subnet Mask: 255.255.255.0 Image: Disable DHCP Server Enable DHCP Server Start IP Address: 192.168.1.100 End IP Address: 192.168.1.200 Leased Time (hour): 24		

Figure 4-21

- IP Address Enter an IP address for the Router. Then you can access the Web-based Utility via this IP address. The default setting is 192.168.1.1.
- Subnet Mask An address code that determines the size of the network. Normally use 255.255.255.0 as the subnet mask.

Note:

- a. If you change the IP Address of LAN, you must use the new IP Address to log in the Router.
- b. If the new LAN IP Address you set is not in the same subnet, the IP Address pool of the DHCP server will change accordingly at the same time, while the Virtual Server and DMZ Host will not take effect until they are re-configured.
- Disable/Enable DHCP Server Disable or Enable the DHCP server. DHCP stands for Dynamic Host Configuration Protocol. The DHCP Server will automatically assign dynamic IP addresses to the computers on the network. If you disable the Server, you must have another DHCP server within your network or else you must configure the computer manually. The following options are available only when DHCP Server is enabled.
 - **Start IP Address** Specify an IP address for the DHCP Server to start with when assigning IP addresses. 192.168.1.100 is the default start address
 - End IP Address Specify an IP address for the DHCP Server to end with when assigning IP addresses. 192.168.1.199 is the default end address.
 - Leased Time (hour) The Lease Time is the amount of time a network user will be allowed connection to the Router with their current dynamic IP address. Enter the amount of time, in hours, and the user will be "leased" this dynamic IP address. After the time is up, the user will be automatically assigned a new dynamic IP address. The

default value is 24 hours.

- Set Address Reservation Click this button, you can view and add a reserved address for clients via the Address Reservation page as shown in Figure 4-21. 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.
- Configure the second IP Address and Subnet Mask for LAN interface Check this box, and you can configure a second IP address and subnet mask for the LAN interface.
- **Save -** Clicking this button only saves the LAN configuration data.
- Save/Reboot Clicking this button not only saves the LAN configuration data but also reboots the Router to make the new configuration take effect.

To Reserve an IP address:

1. Click the **Set Address Reservation** button shown in Figure 4-21 to enter the screen as shown in Figure 4-22.

<u>TD-8811</u>	Address Reservation Notice: Your configuration won't take effect unless the ADSL router is rebooted.
Device Info	ID MAC Address IP Address State Remove
Quick Setup	
Advanced Setup	New Entry Enable All Disable All Remove All
WAN	Save/Reboot Back
LAN	
MAC Clone	
Security	
Routing	
DSL	
Diagnostics	
Management	

Figure 4-22

2. Click the **New Entry** button in Figure 4-22. Then Figure 4-23 will pop up.

<u>TD-8811</u>	Address Reservation Configure Add or Modify an Address Reservation Entry MAC Address;
Device Info	(XX:XX:XX:XX:XX:XX) 00:11:22:33:44:AA
Quick Setup	Reserved IP Address: 192.168.1.23
Advanced Setup	
WAN	State: Enable 🗸
LAN	Save Back
MAC Clone	
Security	
Routing	
DSL	
Diagnostics	
Management	

Figure 4-23

3. Enter the MAC address in XX:XX:XX:XX:XX format and reserved IP address in dotted-decimal notation of the computer for which you want to reserve an IP address.

P Note:

The MAC Address and IP Address added in Figure 4-23 are used for illustrating. They may be different to your circs.

- 4. Select Enable from the State drop-down list.
- 5. Click the **Save** button, then you will go back to the **Address Reservation** screen and see the new entry as shown in Figure 4-22.
- 6. Click **Save/Reboot** button to save the settings and reboot the Router.

P Note:

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

4.3.3 MAC Clone

Choose "Advanced Setup \rightarrow MAC Clone" menu, you can configure the MAC address of the WAN on the screen as shown in Figure 4-24.

TD-8811	MAC Clone										
	WAN MAC Address: Restore Factory MAC										
Device Info	Your PC's MAC Address: 00:19:66:19:40:7F Clone MAC Address										
Quick Setup Advanced Setup	Notice:										
WAN	Your configuration won't take effect unless the ADSL router is rebooted. MAC Clone can't be used with port mirror. If they are setted both, the router will down.										
LAN MAC Clone	Save/Reboot										
Security											
Routing DSL											
Diagnostics											
Management											



Some ISPs require that you register the MAC Address of your adapter. Changes are rarely needed here.

- WAN MAC Address This field displays the current MAC address of the WAN port. If your ISP requires you to register the MAC address, please enter the correct MAC address into this field in XX:XX:XX:XX:XX format (X is any hexadecimal digit).
- Your PC's MAC Address This field displays the MAC address of the PC that is managing the Router. If the MAC address is required, you can click the Clone MAC Address button and this MAC address will be filled in the WAN MAC Address field.

Click **Restore Factory MAC** to restore the MAC address of WAN port to the factory default value.

Click the Save/Reboot button to save your settings.

P Note:

- 1. Only the PC on your LAN can use the **MAC Address Clone** function.
- 2. Your configuration won't take effect unless the ADSL Router is rebooted.
- 3. MAC Clone can't be used with port mirror. If they are set both, the Router will be down.

4.3.4 Security

Choose "Advanced Setup \rightarrow Security" menu, you can do some security configurations for your Router. There are two submenus under the Security menu as shown in Figure 4-25.



Figure 4-25

4.3.4.1 MAC Filtering

Choose "Security \rightarrow MAC Filtering" menu, you can configure the MAC filtering rule in the next screen similar to Figure 4-26. The MAC Address Filtering feature allows you to control the access of users on your local network basing on their MAC addresses.

TD-8811	MAC Filtering Setup
	MAC Filtering Global Policy : FORWARDED
Device Info	
Quick Setup	Change Policy
Advanced Setup	
WAN	MAC Filtering is only effective on ATM PVCs configured in Bridge mode. FORWARDED means that all MAC layer
LAN	frames will be FORWARDED except those matching with any of the specified rules in the following table. BLOCKED
MAC Clone	means that all MAC layer frames will be BLOCKED except those matching with any of the specified rules in the following table.
Security	
MAC Filtering	Choose Add or Remove to configure MAC filtering rules.
Parental Control	
Routing	VPI/VCI Protocol Destination MAC Source MAC Frame Direction Remove
DSL	
Diagnostics	Add Remove
Management	

Figure 4-26

MAC Filtering Global Policy - The default setting is FORWARDED.

- **FORWARDED** means that all MAC layer frames will be **forwarded** except those matching with any of the specified rules in the following table.
- **BLOCKED** means that all MAC layer frames will be **blocked** except those matching with any of the specified rules in the following table.

You can change the policy by clicking the **Change Policy** button to go to the **Change MAC Filtering Global Policy** page as shown in Figure 4-27.

	Change MAC Filtering Global Policy
	WARNING: Changing from one global policy to another will cause all defined rules to be REMOVED
Device Info	AUTOMATICALLY! You will need to create new rules for the new policy.
Quick Setup	
Advanced Setup	Are you sure you want to change MAC Filtering Global Policy from FORWARDED to BLOCKED ?
WAN	
LAN	
MAC Clone	
Security	
MAC Filtering	
Parental Control	
Routing	
DSL	
Diagnostics	
Management	

Figure 4-27

To add a new entry, follow the steps below.

 Click the Add button in Figure 4-26 to go to the Add MAC Filter page as shown in Figure 4-28.

- 2. Select the protocol type.
- 3. Enter the destination MAC address.
- 4. Enter the source MAC address.
- 5. Select the frame direction.
- 6. Select the WAN interfaces.
- 7. Click **Save/Apply** to save your settings.

TD-8811	Add MAC Filter										
	Create a filter to identify the MAC layer frames by specifying at least one condition below. If multiple										
Device Info	conditions are specified, all of them take effect. Click "Apply" to save and activate the filter.										
Quick Setup											
Advanced Setup	Protocol Type: PPPoE 🔽										
WAN	Destination MAC Address: 00:11:22:33:44:AA										
LAN	Source MAC Address: 00:11:22:33:44:BB										
MAC Clone											
Security	Frame Direction:										
MAC Filtering											
Parental Control	WAN Interfaces (Configured in Bridge mode only)										
Routing											
DSL	Select All										
Diagnostics	✓ br_0_33/nas_0_33										
Management	✓ br_0_35/nas_0_35										
	✓ br_8_35/nas_8_35										
	✓ br_8_48/nas_8_48										
	✓ br_5_35/nas_5_35										
	Save/Apply										

Figure 4-28

To remove an existing entry, follow the steps below.

- 1. Check the **Remove** box as shown in Figure 4-26 in the entry you want to remove.
- 2. Click the **Remove** button.

4.3.4.2 Parental Control

Choose "Security \rightarrow Parental Control" menu, you can configure the parental control rule in the screen as shown in Figure 4-29. The Parental Control function can be used to restrict the time of Internet surfing for the child.

TD-8811 Time of Day Restrictions A maximum 16 entries can be configured.												
Info	Username	MAC	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Start	Stop	Remove
k Setup anced Setup	child	00:19:66:19:40:7F						×	x	18:00	20:00	
NN	1	1		_			_	1		1	1	
				Add	Rer	nove						
Clone												
rity												
C Filtering												
rental Control												
ing												
ostics												
agement												



For example: If you don't want your child_1 to surf the Internet from 18:00 to 20:00 on weekdays. You can follow the steps below.

- 1. Click the **Add** button in Figure 4-29 to go to the **Time of Day Restriction** page as shown in Figure 4-30.
- 2. Create a **User Name** for your child, for example child_1.
- If you want to restrict the Browser's surfing time, check the Browser's MAC Address radio button. If you want to restrict other user's surfing time, check the Other MAC Address radio button and enter the MAC address of the user's computer, for example 00:11:22:33:44:CC.
- 4. Select the day or days you need.
- 5. Enter the **Start Blocking Time** and **End Blocking Time** both in hh:mm format.
- 6. Click **Save/Apply** button. Then you will go back to the **Time of Day Restrictions** page and see the list as shown in Figure 4-29.

	Time of Day Restriction
Device Info Quick Setup Advanced Setup WAN	This page adds time of day restriction to a special LAN device connected to the Router. The 'Browser's MAC Address' automatically displays the MAC address of the LAN device where the browser is running. To restrict other LAN device, click the "Other MAC Address" button and enter the MAC address of the other LAN device. To find out the MAC address of a Windows based PC, go to command window and type "ipconfig /all".
LAN MAC Clone	User Name child
Security MAC Filtering Parental Control Routing	Browser's MAC Address 00:19:66:19:40:7F Other MAC Address (xx:xx:xx:xx:xx)
DSL Diagnostics	Days of the week Mon Tue Wed Thu Fri Sat Sun Click to select Image: Click to select
Management	Start Blocking Time 18:00 (hh:mm) 20:00 End Blocking Time (hh:mm) 20:00



To remove an existing entry, follow the steps below.

- 1. Check the box in the **Remove** column of the entry as shown in Figure 4-29.
- 2. Click the **Remove** button below.

4.3.5 Routing

Choose "Advanced Setup→Routing" menu, you can see two submenus under the Routing menu as shown in Figure 4-31.

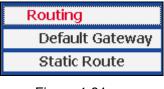


Figure 4-31

4.3.5.1 Default Gateway

Choose "**Routing** \rightarrow **Default Gateway**" menu, you can configure the Default Gateway routing in the next screen as shown in Figure 4-32.

	r Routing Default Gateway				
	If Enable Automatic Assigned Default Gateway checkbox is selected, this router will accept the first received default				
Device Info					
Quick Setup	enter the static default gateway AND/OR a interface. Click 'Save/Apply' button to save it.				
Advanced Setup					
WAN	 If Enable Automatic Assigned Default Gateway checkbox is selected, this router will accept the first received default gateway assignment from one of the PPPoA, PPPoE or MER/DHCP enabled PVC(s). If the checkbox is not selected, enter the static default gateway AND/OR a interface. Click 'Save/Apply' button to save it. NOTE: If changing the Automatic Assigned Default Gateway from unselected to selected, You must reboot the router to get the automatic assigned Default gateway. Enable Automatic Assigned Default Gateway Use Default Gateway IP Address 192.168.1.1 Use Interface 				
LAN	o get a le adomnade assigned delaalt gadeway.				
MAC Clone	Enable Automatic Assigned Default Gateway				
Security					
Routing					
Default Gateway	✓ Use Default Gateway IP Address 192, 168, 1, 1				
Static Route	If Enable Automatic Assigned Default Gateway checkbox is selected, this router will accept the first received default gateway assignment from one of the PPPoA, PPPoE or MER/DHCP enabled PVC(s). If the checkbox is not selected, enter the static default gateway AND/OR a interface. Click 'Save/Apply' button to save it. NOTE: If changing the Automatic Assigned Default Gateway from unselected to selected, You must reboot the router to get the automatic assigned default gateway. Enable Automatic Assigned Default Gateway Use Default Gateway IP Address 192.168.1.1 Use Interface				
DSL	Use Interface				
Diagnostics					
Management	Save/Apply				



Enable Automatic Assigned Default Gateway - Select this checkbox, and then the Router will accept the first received default gateway assignment from one of the PPPoA, PPPoE or MER/DHCP enabled PVC(s). If this checkbox is not selected, you have to enter the static default gateway and/or an interface. Click Save/Apply to save your configurations.

PNote:

If changing the **Enable Automatic Assigned Default Gateway** from unselected to selected, you must reboot the Router to get the automatic assigned default gateway.

4.3.5.2 Static Route

Choose "**Routing** \rightarrow **Static Route**" menu, you can view and add the Static Route entry in the next screen as shown in Figure 4-33. A static route is a pre-determined path that network information must travel to reach a specific host or network.

	r Routing Static Route	: (A maximum	32 entries can	be config	ured)	
Davias Infe		Destination	Subnet Mask	Gateway	Interface	Remove
Device Info		1				
Quick Setup			Add	Remove		
Advanced Setup			Auu	Remove		
WAN						
LAN						
MAC Clone						
Security						
Routing						
Default Gateway						
Static Route						
DSL						
Diagnostics						
Management						

Figure 4-33

To add a new entry, follow the steps below.

- 1. Click the **Add** button in Figure 4-33 to go to the **Static Route Add** page as shown in Figure 4-34.
- 2. Enter the IP address of the destination network. This parameter specifies the IP network address of the final destination.
- 3. Enter the Subnet Mask for the destination.
- 4. Select the Use Gateway IP Address checkbox and enter the IP address of the gateway. The gateway is an immediate neighbor of your ADSL Router that will forward the packet to the destination. On the LAN, the gateway must be a router on the same segment as your Router; over Internet (WAN), the gateway must be the IP address of one of the remote nodes.
- 5. Click **Save/Apply** to save your configurations. Then you will go back to Figure 4-33 and see your new entry.

<u>TD-8811</u>	Routing Static Route Add
	Enter the destination network address, subnet mask, gateway AND/OR available WAN
Device Info	interface then click "Save/Apply" to add the entry to the routing table.
Quick Setup	
Advanced Setup	
WAN	Destination Network Address:
LAN	Subnet Mask :
MAC Clone	
Security	Use Gateway IP Address
Routing	✓ Use Interface
Default Gateway	
Static Route	Save/Apply
DSL	
Diagnostics	
Management	

Figure 4-34

4.3.6 DSL

Choose "Advanced Setup \rightarrow DSL" menu, you can view and configure the parameters in the screen as shown in Figure 4-35.

	DSL Settings
	Select the modulation below.
Device Info	G.Dmt Enabled
Quick Setup	☑ G.lite Enabled
Advanced Setup	
WAN	T1.413 Enabled
LAN	ADSL2 Enabled
MAC Clone	🗹 AnnexL Enabled
Security	ADSL2+ Enabled
Routing	AnnexM Enabled
DSL	
Diagnostics	Select the phone line pair below.
Management	 Inner pair
	 Outer pair
	Capability
	☑ Bitswap Enable
	SRA Enable
	Save/Apply Advanced Settings

Figure 4-35

If you want to make some advanced settings, click **Advanced Settings** button in Figure 4-35 to go to the **DSL Advanced Settings** page as shown in Figure 4-36.

<u>TD-8811</u>	DSL Advanced Settings
	Select the test mode below.
Device Info	
Quick Setup	⊙ Normal
Advanced Setup	OReverb
WAN	
LAN	○ Medley
MAC Clone	O No retrain
Security	OL3
Routing	
DSL	
Diagnostics	Apply Tone Selection
Management	

Figure 4-36

If you want to select the tone, click the **Tone Selection** button to go to the ADSL Tone Settings page as shown in Figure 4-37.

@ 1	rttp	://192	2.168.	1.1/a	lslcfg	tone.l	nt ml -	licr	osoft	Inter	net Ex	plore	c	l		×
	ADSL Tone Settings															
	Upstream Tones															
													5			
	16	✓ 17	✓ 18	V 19	20	21	22	23	V 24	25	26	27	28	29	I 30	5
	Downstream Tones															
 ✓ 	32	V 33	V 34	V 35	V 36	V 37	V 38	V 39	V 40	∨ 41	∨ 42	∨ 43	✓ 44	⊻ 45	V 46	- 5
 ✓ 	48	⊻ 49	V 50	⊻ 51	V 52	⊻ 53	V 54	V 55	V 56	V 57	v 58	V 59	≥ 60	₹61	⊻ 62	- 5
	64	⊻ 65	⊻ 66	⊻ 67	✔68	√ 69	70 🗹	71 🗹	72 🗹	73 🗹	74 🗹	75 🗹	76 🗹	77 🗹	78 🗹	- 5
 ✓ 	80	⊻ 81	⊻ 82	₹83	⊻ 84	₹85	≥ 86	⊻ 87	288	⊻ 89	9 0 🗹	⊻ 91	⊻ 92	⊻ 93	V 94	- 5
	96	97 🗹	98 🗹	99	✓ 100	101	. 🗹 102	2 🗹 103	8 🗹 104	4 🗹 105	5 🗹 106	5 🗹 107	108	8 🗹 109	9 🔽 110	0 🖪
	112	✓ 113	114 🗹	115	5 🗹 116	117	118	8 🗹 119	9 🗹 120	0 🗹 121	. 🗹 122	2 🗹 123	8 🗹 124	125	5 🗹 120	6 🖪
	128	✓ 129	130 🗹	131 🗹	. 🗹 132	2 🗹 133	8 🗹 134	135 🗹	5 🗹 136	5 🗹 137	7 🗹 138	8 🗹 139	140) 🗹 141	. 🗹 14	2 🖪
	144	✓ 145	i 🗹 146	147 🗹	7 🗹 148	149 🗹	9 🗹 150) 🗹 151	l 🗹 152	2 🗹 153	8 🗹 154	155	5 🗹 156	5 🗹 157	7 🗹 158	8 🛯
	160	✓ 161	. 🗹 162	2 🗹 163	8 🗹 164	✓ 165	5 🗹 166	5 🗹 167	7 🔽 168	8 🗹 169	9 🗹 170) 🗹 171	. 🗹 172	2 🗹 173	8 🗹 174	4 🖪
	176	✓ 177	178	179 🗹	9 🔽 180	181 🗹	. 🗹 182	2 🗹 183	8 🗹 184	4 🗹 185	5 🗹 186	5 🗹 187	188	8 🔽 189	9 🔽 19	0 🖪
	192	✓ 193	194 🗹	🗹 195	5 🗹 196	197 🗹	/ 🔽 198	8 🗹 199	9 🗹 200	201 🗹 🖸	. 🗹 202	203	8 🗹 204	1 🗹 205	5 🗹 200	6 🖪
					212											
					7 🗹 228											
 ✓ 	240	∨ 241	. 🗹 242	243	3 🗹 244	245	5 🗹 246	5 🗹 247	7 🔽 248	3 🗹 249	9 🗹 250) 🗹 251	. 🗹 252	2 🗹 253	8 🗹 254	4
@17	記毕				1.0	hark A		aor All	LL Annl) Intern	ıet		
													, inceri			

Figure 4-37

4.4 Diagnostics

Choose "**Diagnostics**", and your modem will test your DSL connection. Then you will see the test results for the connectivity to your local network and your DSL service provider similar to Figure 4-38.

<u>TD-8811</u>	br_0_33 Diagnostics				
Device Info Quick Setup	Your modem is capable of testing your DS test displays a fail status, click "Test" at th consistent. If the test continues to fail, clic	e bottom	of this p	age to make sure the fa	ail status is
dvanced Setup	Test the connection to your local net	work			
iagnostics Ianagement	Test your ENET(1-4) Connection:	PASS	Help		
anagement	Test your USB Connection:	DOWN	Help		
	Test the connection to your DSL serv	· ·			
	Test ADSL Synchronization:	FAIL	<u>Help</u>		
	Test ATM OAM F5 segment ping:	FAIL	<u>Help</u>		
	Test ATM OAM F5 end-to-end ping:	FAIL	Help		
	Test	lext Conr Test Wi		-4	

Figure 4-38

4.5 Management

Choose "Management", and you can see the submenus as shown in Figure 4-39.

Management
Settings
System Log
SNMP Agent
Access Control
Update Firmware
Save/Reboot

Figure 4-39

4.5.1 Settings

Choose "**Management** \rightarrow **Settings**" menu, and you will see the submenus as shown in Figure 4-40.

Settings
Backup
Update
Restore Default

Figure 4-40

4.5.1.1 Backup

Choose "Settings→Backup" menu, and you can save the current configuration of the Router as a backup file in Figure 4-41. Click Backup Settings button to save your current configuration.

TD-8811	Settings - Backup
	Backup DSL router configurations. You may save your router configurations to a file on your PC.
Device Info	
Quick Setup	
Advanced Setup	Backup Settings
Diagnostics	
Management	
Settings	
Backup	
Update	
Restore Default	
System Log	
SNMP Agent	
Access Control	
Update Firmware	
Save/Reboot	

Figure 4-41

4.5.1.2 Update

Choose "Settings \rightarrow Update" menu, and you can update the settings for the Router as shown in Figure 4-42. Click the **Browse...** button to find the file you want to update and then click **Update** Settings to begin the updating.

	Tools Update Settings
	Update DSL router settings. You may update your router settings using your saved files.
Device Info	
Quick Setup	Settings File Name: Browse
Advanced Setup	
Diagnostics	Update Settings
Management	
Settings	
Backup	
Update	
Restore Default	
System Log	
SNMP Agent	
Access Control	
Update Firmware	
Save/Reboot	

Figure 4-42

4.5.1.3 Restore Default

Choose "Settings→Restore Default" menu, and you can restore the configurations of the Router to its factory default as shown in Figure 4-43. Click the Restore Default Settings button to begin restoring.

	Tools Restore Default Settings
	Restore DSL router settings to the factory defaults.
Device Info	
Quick Setup	
Advanced Setup	Restore Default Settings
Diagnostics	
Management	
Settings	
Backup	
Update	
Restore Default	
System Log	
SNMP Agent	
Access Control	
Update Firmware	
Save/Reboot	

Figure 4-43

4.5.2 System Log

Choose "**Management**→**System Log**" menu, and you can view and configure the logs of the Router in Figure 4-44.

<u>TD-8811</u>	System Log
	The System Log dialog allows you to view the System Log and configure the System Log options.
Device Info	
Quick Setup	Click "View System Log" to view the System Log.
Advanced Setup	Citability of the second se
Diagnostics	Click "Configure System Log" to configure the System Log options.
Management	
Settings	View System Log Configure System Log
System Log	
SNMP Agent	
Access Control	
Update Firmware	
Save/Reboot	

Figure 4-44

Click the **View System Log** button, and you will go to the System Log page and see the logs similar to Figure 4-45.

			System Log
Date/Time	Facility	Severity	Message
Jan 1 00:00:12	syslog	emerg	BCM96345 started: BusyBox v1.00 (2009.04.02-13:17+0000)
Jan 1 00:00:13	user	crit	kernel: eth0 Link UP.
	S	Set Refresł	n Time(Second): 0 save Close



Click the **Configure System Log** button, and you will go to the Configuration page as shown in Figure 4-46.

	System Log Configuration
Device Info Quick Setup	If the log mode is enabled, the system will begin to log all the selected events. For the Log Level, all events above or equal to the selected level will be logged. For the Display Level, all logged events above or equal to the selected level will be displayed. If the selected mode is 'Remote' or 'Both,'
Advanced Setup Diagnostics	events will be sent to the specified IP address and UDP port of the remote syslog server. If the selected mode is 'Local' or 'Both,' events will be recorded in the local memory.
Management	Select the desired values and click 'Save/Apply' to configure the system log options.
Settings	
System Log	Log: O Disable 💿 Enable
SNMP Agent	
Access Control	Log Level: Debugging
Update Firmware	Display Level: Error
Save/Reboot	Mode: Local v
	Save/Apply



- Log Check the Disable radio button to disable the system log function. The default setting is enabled.
- Log Level Select the log level, then all the events above or equal to the selected level will be logged.
- > Display Level All logged events above or equal to the selected level will be displayed.
- Mode Select Local, Remote or Both. If the selected mode is Remote or Both, events will be sent to the specified IP address and UDP port of the remote syslog server. If the selected mode is Local or Both, events will be recorded in the local memory.

4.5.3 SNMP Agent

Choose "Management→SNMP Agent" menu, and you will go to the SNMP (Simple Network Management Protocol) page as shown in Figure 4-47. SNMP allows a management application to retrieve statistics and status from the SNMP agent in this device. Select the desired values and click **Save/Apply** to configure the SNMP options.

	SNMP - Configuration
Device Info	Simple Network Management Protocol (SNMP) allows a management application to retrieve statistics and status from the SNMP agent in this device.
Quick Setup	Ť
Advanced Setup	Select the desired values and click "Apply" to configure the SNMP options.
Diagnostics	SNMP Agent 💿 Disable 🔿 Enable
Management	
Settings	Read Community: public
System Log	Set Community: private
SNMP Agent	System Name: unknown
Access Control	
Update Firmware	System Location: unknown
Save/Reboot	System Contact: unknown
	Trap Manager IP: 0.0.0.0
	Save/Apply



4.5.4 Access Control

Choose "**Management**→**Access Control**" menu, and you will submenus as shown in Figure 4-48.

Access Control
Services
IP Addresses
Password

Figure 4-48

4.5.4.1 Service

Choose "Access Control→Service" menu, and you can enable or disable the services as shown in Figure 4-49. Click Save/Apply to save your configurations.

TD-8811	Access Control Services		
	A Service Control List ("SCL") enables	s or disables	services from
Device Info			001 11000 11 01
Quick Setup			
Advanced Setup			
Diagnostics		Services	LAN
Management		нттр	🗹 Enable
Settings		ICMP	🗹 Enable
System Log			
SNMP Agent		SNMP	🗹 Enable
Access Control		TELNET	🗹 Enable
Services		पाना	🗹 Enable
IP Addresses			
Password			(0 mm h s
Update Firmware		Save	e/Apply
Save/Reboot			

Figure 4-49

4.5.4.2 IP Address

Choose "Access Control→IP Address" menu, and can view and configure the IP address access control in the screen as shown in Figure 4-50. If enabled, only PCs with IP addresses listed are allowed to access the Router.

<u>TD-8811</u>	Access Control IP Address
Device Info Quick Setup Advanced Setup	The IP Address Access Control mode, if enabled, permits access to local management services from IP addresses contained in the Access Control List. If the Access Control mode is disabled, the system will not validate IP addresses for incoming packets. The services are the system applications listed in the Service Control List
Diagnostics	Access Control Mode: 💿 Disable 🔘 Enable
Management	
Settings	
System Log	IP Address Remove
SNMP Agent	
Access Control	192.168.1.23
Services	
IP Addresses	Add Remove
Password	
Update Firmware	
Save/Reboot	

Figure 4-50

To add a new entry, follow the steps below.

1. Click the **Add** button in Figure 4-50 to go to the **Access Control** page in the screen as shown in Figure 4-51.

- 2. Enter the IP address (e.g. 192.168.1.23) you want to add in the IP Address filed.
- 3. Click **Save/Apply** to save your configuration.

	Access Control
	Enter the IP address of the management station permitted to access the local management
Device Info	services, and click 'Save/Apply.'
Quick Setup	
Advanced Setup	IP Address: 192.168.1.23
Diagnostics	
Management	Save/Apply
Settings	
System Log	
SNMP Agent	
Access Control	
Services	
IP Addresses	
Password	
Update Firmware	
Save/Reboot	

Figure 4-51

4.5.4.3 Password

Choose "Access Control \rightarrow Password" menu, and you can change the factory default password of the Router in the screen as shown in Figure 4-52.

TD-8811	Access Control Password	
Device Info	Access to your DSL router is controlled through three user accounts: admin, support, and	
	user.	
Quick Setup		
Advanced Setup	The user name "admin" has unrestricted access to change and view configuration of your	
Diagnostics	DSL Router.	
Management	The user name "support" is used to allow an ISP technician to access your DSL Router for	
Settings	maintenance and to run diagnostics.	
System Log		
SNMP Agent	The user name "user" can access the DSL Router, view configuration settings and statistics,	
Access Control	as well as, update the router's firmware.	
Services	Use the fields below to enter up to 16 characters and click "Apply" to change or create	
IP Addresses	passwords. Note: Password cannot contain a space.	
Password		
Update Firmware	Username:	
Save/Reboot	Old Password:	
	New Password:	
	Confirm Password:	
	Save/Apply	

Figure 4-52

4.5.5 Update Firmware

Choose "Management \rightarrow Update Firmware" menu, and you can update the latest version of firmware for the Router in the screen as shown in Figure 4-53. Make sure the firmware or romfile you want to use is on the local hard drive of the computer. Click **Browse...** to find the local hard drive and locate the firmware or romfile to be used for upgrade.

	Tools Update Firmware	
	Step 1: Obtain an updated firmware image file from your ISP.	
Device Info		
Quick Setup	Step 2: Enter the path to the image file location in the box below or click the "Browse"	
Advanced Setup	button to locate the image file.	
Diagnostics	Step 3: Click the "Update Firmware" button once to upload the new image file.	
Management		
Settings	NOTE: The update process takes about 2 minutes to complete, and your DSL Router will	
System Log	reboot.	
SNMP Agent		
Access Control	Firmware File Name: Browse	
Update Firmware		
Save/Reboot	Update Firmware	



To upgrade the router's firmware, follow these instructions below.

- 1 Download a more recent firmware upgrade file from the TP-LINK website (<u>www.tp-link.com</u>).
- 2 Type the path and file name of the update file into the "Firmware File Name" field. Or click the **Browse...** button to locate the update file.
- 3 Click the **Update Firmware** button.

4.5.6 Save/Reboot

Choose "Management \rightarrow Save/Reboot" menu, and you can save your configurations and reboot your Router to make the configurations take effect in the screen as shown in Figure 4-54.

<u>TD-8811</u>	Click the button below to save and reboot the router.
Device Info	Save/Reboot
Quick Setup	
Advanced Setup	
Diagnostics	
Management	
Settings	
System Log	
SNMP Agent	
Access Control	
Update Firmware	
Save/Reboot	

Figure 4-54

Chapter 5. Software Dial

If TD-8811 CPE is working in bridged (RFC 1483 Bridged) mode when connecting to the Internet, you must install dial software on your PC. There are some software working on WINDOWS in market, examples as 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", and then click Next to enter the configuration page.
- Select the "connect to the Internet", and then click the Next button to enter the next page. Select the "set up my connection manually", and click Next to enter the next page.
- 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, and click Next. If you have forgotten an existing account name or password, please connect with your ISP.
- To create the connection and close this wizard, click **Finish** to add a shortcut to this connection to your desktop.
- When you want to access the Internet by ADSL, double-click this shortcut of dial connection on your desktop. Enter the account name and password, and click **Connect** to connect the Internet.

How do I set up the connection in the Windows Vista?

➤ Users of Windows Vista can do as follows: Right-press Network→Choose Properties, then you can see Figure 5-1.

~~~			
Vetwork and Inte	rnet <ul> <li>Network and Sharing Center</li> </ul>	r 👻 🍫 Search	م
Tasks View computers and devices Connect to a network Set up a connection or network	Network and Sharing Ce	enter	View full map
Manage network connections Diagnose and repair	TEST-PC (This computer)	Multiple networks	Internet
	Vetwork 2 (Public netwo	rk)	Customize
	Access	Local only	
10	Connection	Local Area Connection 4	View status
	Unidentified network (Pu	ublic network)	Customize
1111	Access	Local only	
1111 1	Connection	Local Area Connection 2	View status
	Sharing and Discovery		
	Network discovery	• Off	$\odot$
	File sharing	● Off	· · · · · · · · · · · · · · · · · · ·
See also	Public folder sharing	© Off	$\odot$
Internet Options Windows Firewall	Printer sharing	Off (no printers installed)	$\odot$
windows Pirewaii	Password protected sharing	o On	

Figure 5-1

Click "Set up a connection or network" in the left of this page. And choose "Set up a dial-up connection" in the new page; click Next. After that, you will see Figure 5-2; click "Set up a connection anyway" to enter next page.

🚱 💱 Set up a dial-up connection	
Windows could not detect a dial-up modem	
Is the modem connected? Is the modem switched on?	
→ Iry again	
Set up a connection anyway Windows will save your settings and you can try to connect later.	
	Cancel

Figure 5-2

- Type the Dial-up phone number, the User name and password supplied by your ISP in the new page. If you have forgotten an existing user name or password, please connect with your ISP. Click Create to create the dial-up connection.
- Click **Close** to finish the setup.
- > To connect to the Internet next time, click the Start button; click Connect to, and then click

the connection you just created.

# 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.
  - 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

- 1) 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.
- 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.
- 3) 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.
- 2) 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.

- 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