



# TP-LINK®

## User Guide

**TD-8811**

**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



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.

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## Package Contents

The following items should be found in your package:

- One TD-8811 External ADSL2+ ROUTER
- One AC power Adapter for TD-8811 External ADSL2+ ROUTER
- One Resource CD for TD-8811 External ADSL2+ ROUTER, including:
  - This User Guide
  - Quick Installation Guide Program
  - Other Helpful Information
  - USB driver
- Quick Installation Guide
- One RJ45 cable
- Two RJ11 cables
- One ADSL splitter
- One USB cable

 **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. Product Overview

With the excellent circuit design and high quality production, we guarantee its high performance, great stability and easy to use.

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-MDI/MDIX.

The TD-8811 not only uses html (web mode through Ethernet port) to configure the router but also uses external utility software, too. You can download it from our website (<http://www.tp-link.com>).

### 1.1 Product main specification

- High speed and asymmetrical data transmit mode, provides safe and exclusive bandwidth
- Supports All ADSL2+ industrial standards
- Compatible with all mainstream DSLAM (CO)
- Firmware upgradeable
- Provides integrated access of internet and route function which face to SOHO users
- Advanced DMT modulation and demodulation
- Real-time Configuration and device monitoring
- Quick response semi-conductive surge protection circuit, provides reliable ESD and surge-protect function

### 1.2 Supporting protocol

- G.992.1 (G.dmt) - Annex A
- G.992.2 (G.lite) - Annex A
- ANSI T1.413
- G.992.3 (ADSL2) - Annex A compliant
- G.992.5 (ADSL2+) Annex A 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 route)
- Supports RFC1577 (IPoA)

### 1.3 Transmit data-rate

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

## 1.4 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)

## 1.5 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
- Support USB 1.1 device interface

## 1.6 Working environment

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

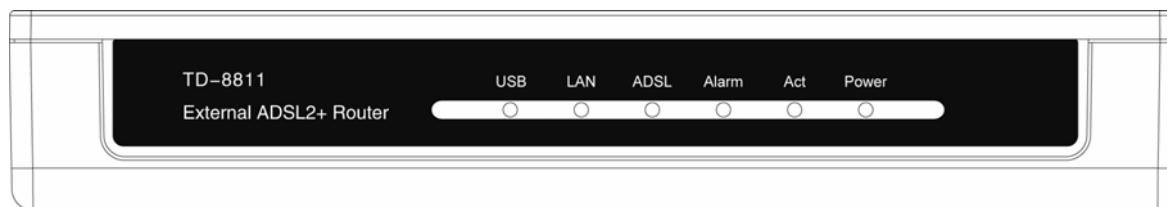
## Chapter 2. Hardware Installation Guide

The TD-8811 maintains three separate interfaces, one Ethernet, one USB interface and one ADSL 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 ADSL2+ ROUTER to your computer, with the operating system supporting the TCP/IP protocol.

### 2.2 LED explanation



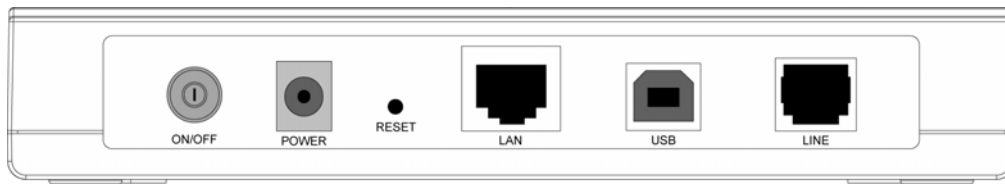
The front panel of ADSL2+ ROUTER includes one power indicator (RED) and five function indicators (GREEN), as explained in chart 1-1:

| Indicator | Description | Status      | Function Details   |
|-----------|-------------|-------------|--|
| Power     | Power       | On          | Power OK   |
|           |             | Off         | Power fail   |
| Act       | Data        | On          | There is data transmitting or receiving on WAN port            |
|           |             | Off         | No data is transmitting or receiving on WAN port               |
| Alarm     | Mistake     | On          | There is a mistake when ADSL is transmitting or receiving data |
|           |             | Off         | ADSL works normally  |
| ADSL      | ADSL status | Slow flash  | Self-detecting when power on                                   |
|           |             | Quick flash | The LINE is connecting to the ISP's network                    |
|           |             | On          | The LINE has connected to ISP's network                        |
|           |             | Off         | The LINE port has no connection                                |
| LAN       | Ethernet    | On          | LAN port works normally  |
|           |             | Off         | Connection on LAN port is abnormal                             |
|           |             | Flash       | Data is transmitting or receiving on LAN port                  |
| USB       | USB status  | On          | Connection to telecom network is OK                            |
|           |             | Off         | Connection on USB port is abnormal                             |
|           |             | Flash       | Data is transmitting or receiving                              |

Chart 1-1



## 2.3 Rear-panel



- **ON/OFF:** Turn on/off the ADSL2+ Router's power.
- **POWER:** please do not use any unknown power adapter; otherwise your ADSL2+ Router may be damaged.
- **RESET (reset default):** Press the reset button, then turn on the Router's power (keep the button pressed) for at least three seconds, it will restore the settings to the default factory configuration.
- **LAN:** Connect with your computer's NIC.
- **USB:** Connect with your computer's USB interface
- **LINE (WAN):** Connect to the MODEM Port of Splitter or connect the telephone line.

## 2.4 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+ ROUTER by telephone line.

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

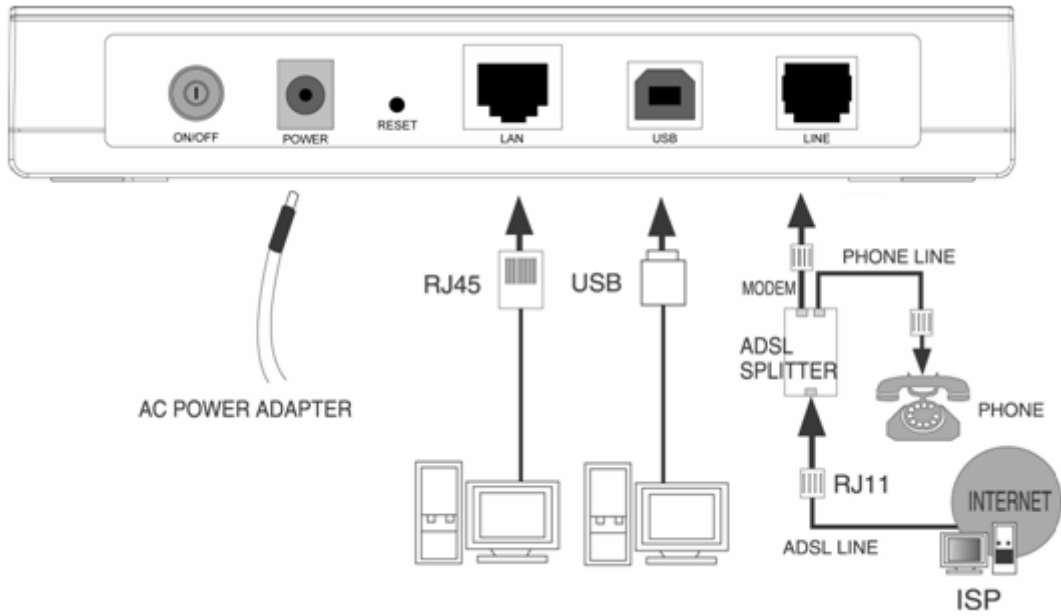


Figure 2-1

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

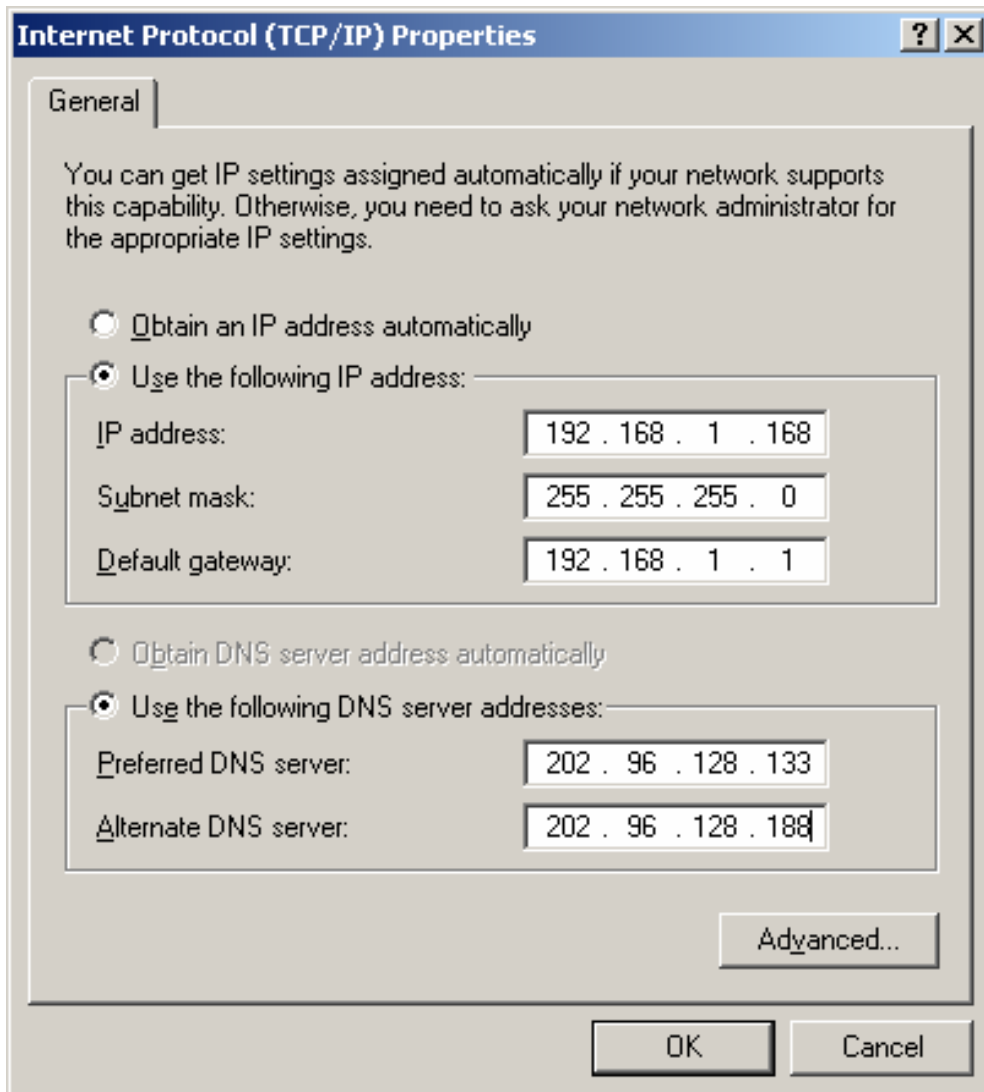


Figure 3-1

**Note:**

- 1) Users of Windows 98 can open **TCP/IP Properties** according to the following: Right-click (Mouse) **Network Neighbor** -> Choose **Properties** -> Double-click **TCP/IP PCI Fast Ethernet Adapter**.
- 2) The users of Windows 2000/NT/XP can do the following: Right-press **Network Neighbor** -> Choose **Properties**->Right-press **Local Connection** ->Choose **Properties**->Double- click

### Internet Protocol (TCP/IP).

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

You can check whether your configuration is successful through **PING** command. Enter "**Ping 192.168.1.1**".

If the screen looks like the following, the connection between your computer and TD-8811 is OK now.

```
Pinging 192.168.1.1 with 32 bytes of data:

Reply from 192.168.1.1: bytes=32 time=1ms TTL=254
Reply from 192.168.1.1: bytes=32 time=1ms TTL=254
Reply from 192.168.1.1: bytes=32 time=1ms TTL=254
Reply from 192.168.1.1: bytes=32 time=1ms TTL=254

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 = 1ms, Average = 0ms
```

Figure 3-2

If the screen looks like the following, the connection fails. Repeat the previous steps again.

```
C:\Documents and Settings\Administrator>ping 192.168.1.1

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 ADSL2+ connection is OK, you will see the Figure 3-4.



Figure 3-4

### 3.3 Quick Setup

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

**TD-8811**

**Device Info**

|                           |                                     |
|---------------------------|-------------------------------------|
| Board ID:                 | 96338L-2M-8M                        |
| Firmware Version:         | 3.06L.03-T1.0a-080131.A2pB023k.d17m |
| Bootloader (CFE) Version: | 1.0.37-6.5                          |

This information reflects the current status of your DSL connection.

|                                |             |
|--------------------------------|-------------|
| Line Rate - Upstream (Kbps):   |             |
| Line Rate - Downstream (Kbps): |             |
| LAN IP Address:                | 192.168.1.1 |
| Default Gateway:               |             |
| Primary DNS Server:            | 192.168.1.1 |
| Secondary DNS Server:          | 192.168.1.1 |

Figure 3-5

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

**TD-8811**

**Device Info**

**Quick Setup**

**Advanced Setup**

**Diagnostics**

**Management**

**Quick Setup**

This Quick Setup will guide you through the steps necessary to configure your DSL Router.

**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]

VCI: [32-65535]

**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

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**.

**TD-8811**

**Device Info**

**Quick Setup**

**Advanced Setup**

**Diagnostics**

**Management**

**Connection Type**

Select the type of network protocol for IP over Ethernet as WAN interface

PPP over ATM (PPPoA)

PPP over Ethernet (PPPoE)

MAC Encapsulation Routing (MER)

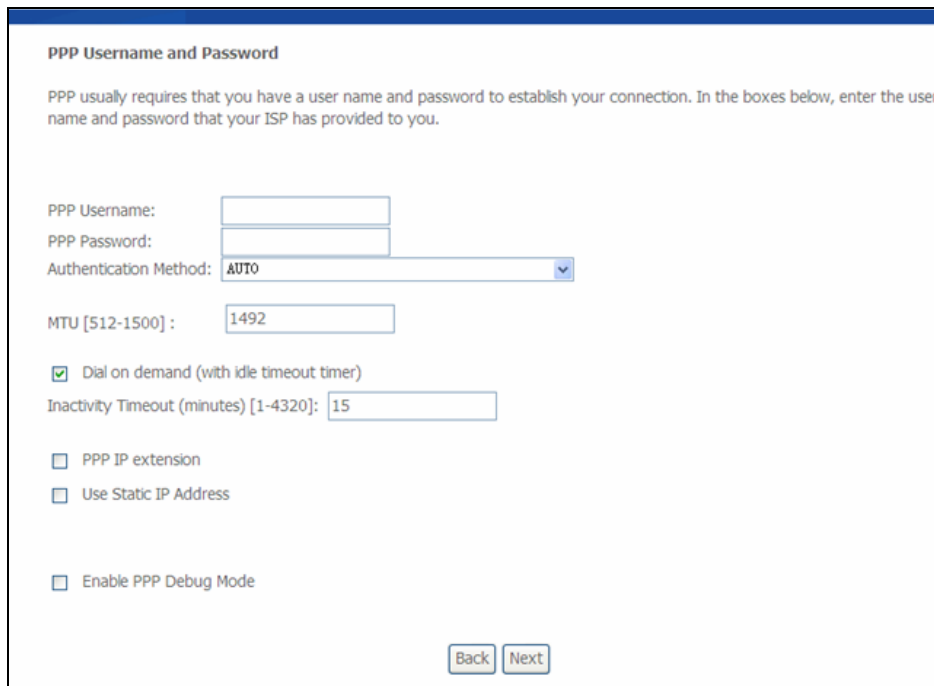
IP over ATM (IPoA)

Bridging

**Encapsulation Mode**

Figure 3-7

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



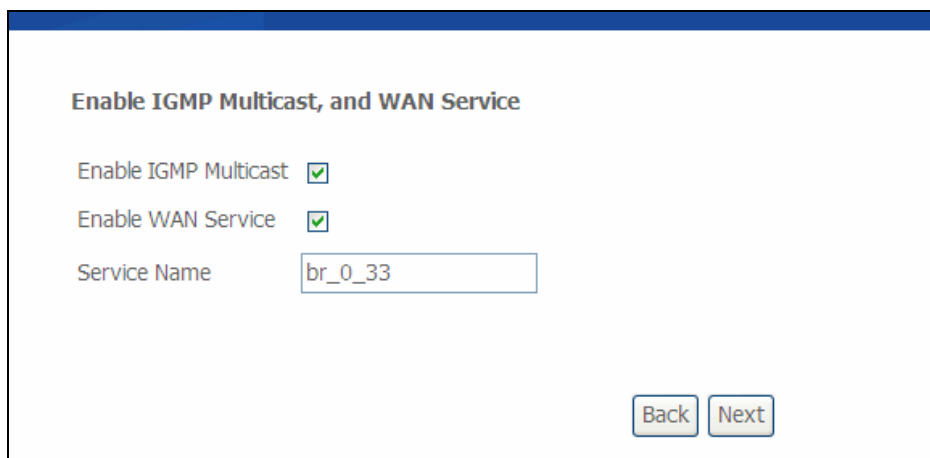
The screenshot shows a web-based configuration page titled "PPP Username and Password". The page contains the following fields and options:

- PPP Username: [Text input field]
- PPP Password: [Text input field]
- Authentication Method: [Dropdown menu with "AUTO" selected]
- MTU [512-1500]: [Text input field with "1492" entered]
- Dial on demand (with idle timeout timer)
- Inactivity Timeout (minutes) [1-4320]: [Text input field with "15" entered]
- PPP IP extension
- Use Static IP Address
- Enable PPP Debug Mode

At the bottom right, there are two buttons: "Back" and "Next".

Figure 3-8

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



The screenshot shows a web-based configuration page titled "Enable IGMP Multicast, and WAN Service". The page contains the following fields and options:

- Enable IGMP Multicast:
- Enable WAN Service:
- Service Name: [Text input field with "br\_0\_33" entered]

At the bottom right, there are two buttons: "Back" and "Next".

Figure 3-9

- 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:    | 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               |

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.

Figure 3-10

### 3.3.2 PPPoE

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

**TD-8811**

**Device Info**

**Quick Setup**

**Advanced Setup**

**Diagnostics**

**Management**

**Connection Type**

Select the type of network protocol for IP over Ethernet as WAN interface

PPP over ATM (PPPoA)  
 PPP over Ethernet (PPPoE)  
 MAC Encapsulation Routing (MER)  
 IP over ATM (IPoA)  
 Bridging

**Encapsulation Mode**

LLC/SNAP-BRIDGING ▾

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:

PPPoE Service Name:

Authentication Method: **AUTO**

MTU [512-1500] :

Dial on demand (with idle timeout timer)

Inactivity Timeout (minutes) [1-4320]:

PPP IP extension

Use Static IP Address

Enable PPP Debug Mode

Figure 3-12

c) Click **Save/Reboot**.

**WAN Setup - Summary**

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

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

 **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**.

The screenshot shows the configuration interface for the TD-8811 router. On the left is a navigation menu with options: Device Info, Quick Setup, Advanced Setup, Diagnostics, and Management. The main area is titled "Connection Type" and contains the instruction: "Select the type of network protocol for IP over Ethernet as WAN interface". There are five radio button options: PPP over ATM (PPPoA), PPP over Ethernet (PPPoE), MAC Encapsulation Routing (MER) (which is selected), IP over ATM (IPoA), and Bridging. Below this is the "Encapsulation Mode" section with a dropdown menu set to "LLC/SNAP-BRIDGING". At the bottom right are "Back" and "Next" buttons.

Figure 3-14

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

The screenshot shows the "WAN IP Settings" configuration screen. It includes a notice about DHCP and static configurations. There are three main sections of options:
 

- Obtain an IP address automatically** (selected): Includes fields for WAN IP Address and WAN Subnet Mask.
- Use the following IP address:** (unselected): Includes a checkbox for "Use IP Address" and a dropdown for "Use WAN Interface" (set to "pppoe\_0\_35\_2/ppp\_0\_35\_1").
- Obtain DNS server addresses automatically** (selected): Includes fields for Primary DNS server and Secondary DNS server.

 At the bottom are "Back" and "Next" buttons.

Figure 3-15

- 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:

Figure 3-16

- d) Click **Save/Reboot**.

**WAN Setup - Summary**

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

|                            |                        |
|----------------------------|------------------------|
| <b>VPI / VCI:</b>          | 0 / 33                 |
| <b>Connection Type:</b>    | MER                    |
| <b>Service Name:</b>       | br_0_33                |
| <b>Service Category:</b>   | UBR                    |
| <b>IP Address:</b>         | Automatically Assigned |
| <b>Service State:</b>      | Enabled                |
| <b>NAT:</b>                | Enabled                |
| <b>Firewall:</b>           | Enabled                |
| <b>IGMP Multicast:</b>     | Enabled                |
| <b>Quality Of Service:</b> | 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.

Figure 3-17

### 3.3.4 IPoA

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

**TD-8811**

**Device Info**

**Quick Setup**

**Advanced Setup**

**Diagnostics**

**Management**

**Connection Type**

Select the type of network protocol for IP over Ethernet as WAN interface

PPP over ATM (PPPoA)

PPP over Ethernet (PPPoE)

MAC Encapsulation Routing (MER)

IP over ATM (IPoA)

Bridging

**Encapsulation Mode**

LLC/SNAP-ROUTING ▼

Back Next

Figure 3-18

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

**TD-8811**

**Device Info**

**Quick Setup**

**Advanced Setup**

**Diagnostics**

**Management**

**WAN IP Settings**

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. Configuring them with static values will disable the automatic assignment from other WAN connection.

WAN IP Address: 192.168.1.184

WAN Subnet Mask: 255.255.255.0

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 3-19

- 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:

Figure 3-20

- d) Click **Save/Reboot**.

**WAN Setup - Summary**

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

|                            |               |
|----------------------------|---------------|
| <b>VPI / VCI:</b>          | 0 / 33        |
| <b>Connection Type:</b>    | IPoA          |
| <b>Service Name:</b>       | br_0_33       |
| <b>Service Category:</b>   | UBR           |
| <b>IP Address:</b>         | 192.168.1.198 |
| <b>Service State:</b>      | Enabled       |
| <b>NAT:</b>                | Enabled       |
| <b>Firewall:</b>           | Enabled       |
| <b>IGMP Multicast:</b>     | Enabled       |
| <b>Quality Of Service:</b> | 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.

Figure 3-21

### 3.3.5 Bridging

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

**TD-8811**

- Device Info
- Quick Setup
- Advanced Setup
- Diagnostics
- Management

**Connection Type**

Select the type of network protocol for IP over Ethernet as WAN interface

PPP over ATM (PPPoA)  
 PPP over Ethernet (PPPoE)  
 MAC Encapsulation Routing (MER)  
 IP over ATM (IPoA)  
 Bridging

**Encapsulation Mode**

LLC/SNAP-BRIDGING ▼

Back Next

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:          | 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 3-23

**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.

You will then see the Figure 3-24. This screen displays some information about the device such as link rate.

**TD-8811**

**Device Info**

|                                  |                                     |
|----------------------------------|-------------------------------------|
| <b>Board ID:</b>                 | 96338L-2M-8M                        |
| <b>Firmware Version:</b>         | 3.06L.03-T1.0a-080131.A2pB023k.d17m |
| <b>Bootloader (CFE) Version:</b> | 1.0.37-6.5                          |

This information reflects the current status of your DSL connection.

|                                       |             |
|---------------------------------------|-------------|
| <b>Line Rate - Upstream (Kbps):</b>   |             |
| <b>Line Rate - Downstream (Kbps):</b> |             |
| <b>LAN IP Address:</b>                | 192.168.1.1 |
| <b>Default Gateway:</b>               |             |
| <b>Primary DNS Server:</b>            | 192.168.1.1 |
| <b>Secondary DNS Server:</b>          | 192.168.1.1 |

Figure 3-24

Default user name and password both are “admin”; if you want to change them, please go to “**Management**” → “**Access control**”→“**Passwords**”. (Figure 3-25)

**TD-8811**

**Access Control -- Password**

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

The user name "admin" has unrestricted access to change and view configuration of your DSL Router.

The user name "support" is used to allow an ISP technician to access your DSL Router for maintenance and to run diagnostics.

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

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

Username:

Old Password:

New Password:

Confirm Password:

Figure 3-25

### 3.4 Web Setup

Choose “**Advanced Setup**”→“**WAN**”, you will enter the page of Wide Area Network (WAN) Setup, you will see the Figure 3-26.

**Wide Area Network (WAN) Setup**

Choose Add, Edit, or Remove to configure WAN interfaces.  
Choose Save/Reboot to apply the changes and reboot the system.

| VPI/VCI | Con. ID | Category | Service  | Interface | Protocol | MTU  | Igmp | QoS      | State   | Remove                   | Edit |
|---------|---------|----------|----------|-----------|----------|------|------|----------|---------|--------------------------|------|
| 0/32    | 1       | UBR      | br_0_32  | nas_0_32  | Bridge   | 1500 | N/A  | Disabled | Enabled | <input type="checkbox"/> | Edit |
| 1/33    | 1       | UBR      | br_1_33  | nas_1_33  | Bridge   | 1500 | N/A  | Disabled | Enabled | <input type="checkbox"/> | Edit |
| 0/35    | 1       | UBR      | br_0_35  | nas_0_35  | Bridge   | 1500 | N/A  | Disabled | Enabled | <input type="checkbox"/> | Edit |
| 0/100   | 1       | UBR      | br_0_100 | nas_0_100 | Bridge   | 1500 | N/A  | Disabled | Enabled | <input type="checkbox"/> | Edit |
| 8/35    | 1       | UBR      | br_8_35  | nas_8_35  | Bridge   | 1500 | N/A  | Disabled | Enabled | <input type="checkbox"/> | Edit |
| 8/81    | 1       | UBR      | br_8_81  | nas_8_81  | Bridge   | 1500 | N/A  | Disabled | Enabled | <input type="checkbox"/> | Edit |
| 0/200   | 1       | UBR      | br_0_200 | nas_0_200 | Bridge   | 1500 | N/A  | Disabled | Enabled | <input type="checkbox"/> | Edit |

Figure 3-26

There are 7 PVC links in the **WAN** setup page, choose the right PVC according to your needs, and then click the **edit** button, you will enter the page of ATM PVC Configuration (See Figure 3-27).

**ATM PVC Configuration**

This screen allows you to configure an ATM PVC Identifier (VPI and VCI) and select a service category. Otherwise choose an existing interface by selecting the checkbox to enable it.

VPI: [0-255]

VCI: [32-65535]

Service Category:

**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

Figure 3-27

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 3-28.

**Note:**

The type of network protocol selected may be different in different areas, there are five types (Figure 3-28), so you should ask your ISP to acquire the local type of network protocol and Encapsulation mode.



Figure 3-28

After choosing the proper protocol, enter the correct parameters supported by your ISP. Enable the configurations, then you can surf on the Internet.

#### ➤ PPP over ATM (PPPoA)

If you select the protocol of PPP over ATM (PPPoA), you will see the Figure 3-29, enter the value of user name and password which is provided by your ISP. After selecting other functions (often using the default setup), click the **next** button.

Figure 3-29

After that, the Figure 3-30 will appear. Turn on the selected functions according to your demands. Clicking the **next** button to enter the next step, you will see the Figure 3-31, finally click **save** to

complete the configuration.

TD-8811

Device Info

Quick Setup

Advanced Setup

WAN

LAN

MAC Clone

Security

Routing

DSL

Diagnostics

Management

Enable IGMP Multicast, and WAN Service

Enable IGMP Multicast

Enable WAN Service

Service Name

Back Next

Figure 3-30

TD-8811

Device Info

Quick Setup

Advanced Setup

WAN

LAN

MAC Clone

Security

Routing

DSL

Diagnostics

Management

WAN Setup - Summary

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

|                     |                        |
|---------------------|------------------------|
| 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               |

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

Figure 3-31

### ➤ PPP over Ethernet (PPPoE)

If you select the protocol of PPP over Ethernet (PPPoE), you will see the Figure 3-32, enter the value of user name and password which is provided by your ISP, after selecting other functions (often using the default setup), click the **next** button.

The screenshot shows the 'PPP Username and Password' configuration page. On the left is a navigation menu with the following items: Device Info, Quick Setup, Advanced Setup, WAN, LAN, MAC Clone, Security, Routing, DSL, Diagnostics, and Management. The main content area has the title 'PPP Username and Password' and a paragraph: '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.'

Fields and options include:

- PPP Username: [text input]
- PPP Password: [text input]
- PPPoE Service Name: [text input]
- Authentication Method: **AUTO** [dropdown menu]
- MTU [512-1500]: [1492] [text input]
- Dial on demand (with idle timeout timer)
- Inactivity Timeout (minutes) [1-4320]: [15] [text input]
- PPP IP extension
- Use Static IP Address
- Enable PPP Debug Mode

At the bottom right are 'Back' and 'Next' buttons.

Figure 3-32

You will see the Figure 3-33. Then turn on the selected functions according to your needs. Clicking the **next** button to enter the next step, you will see the Figure 3-34, finally click **save** to complete the configuration.

The screenshot shows the 'Enable IGMP Multicast, and WAN Service' configuration page. The navigation menu on the left is identical to Figure 3-32. The main content area has the title 'Enable IGMP Multicast, and WAN Service' and the following options:

- Enable IGMP Multicast
- Enable WAN Service
- Service Name: [br\_0\_33] [text input]

At the bottom right are 'Back' and 'Next' buttons.

Figure 3-33

TD-8811

- Device Info
- Quick Setup
- Advanced Setup
- WAN
- LAN
- MAC Clone
- Security
- Routing
- DSL
- Diagnostics
- Management

### WAN Setup - Summary

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

|                     |                        |
|---------------------|------------------------|
| VPI / VCI:          | 0 / 33                 |
| Connection Type:    | PPPoE                  |
| 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.

Figure 3-34

### ➤ MAC Encapsulation Routing (MER)

If you select the protocol of MAC Encapsulation Routing (MER), you will see the page (Figure 3-35). Enter the parameter and the way which is provided by your ISP, then click the **next** button.

TD-8811

- Device Info
- Quick Setup
- Advanced Setup
- WAN
- LAN
- MAC Clone
- Security
- Routing
- DSL
- Diagnostics
- Management

### 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:

Obtain DNS server addresses automatically  
 Use the following DNS server addresses:

Primary DNS server:

Secondary DNS server:

Figure 3-35

After that, Figure 3-36 will be available. You can select the functions according to your needs. Clicking the **next** button to enter the next step, you will see the Figure 3-37, finally click **save** to complete the configuration.

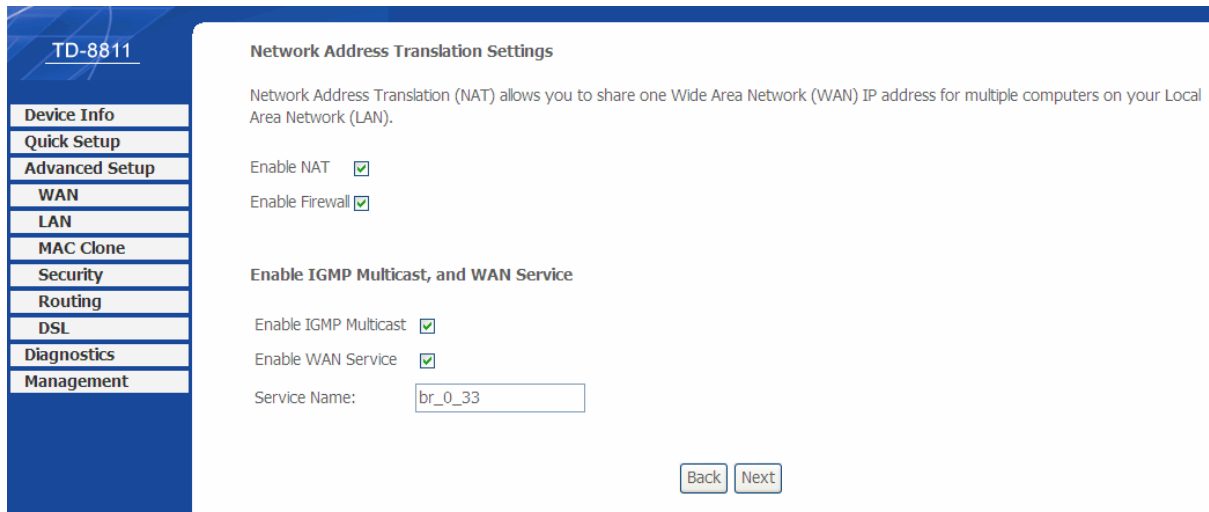


Figure 3-36

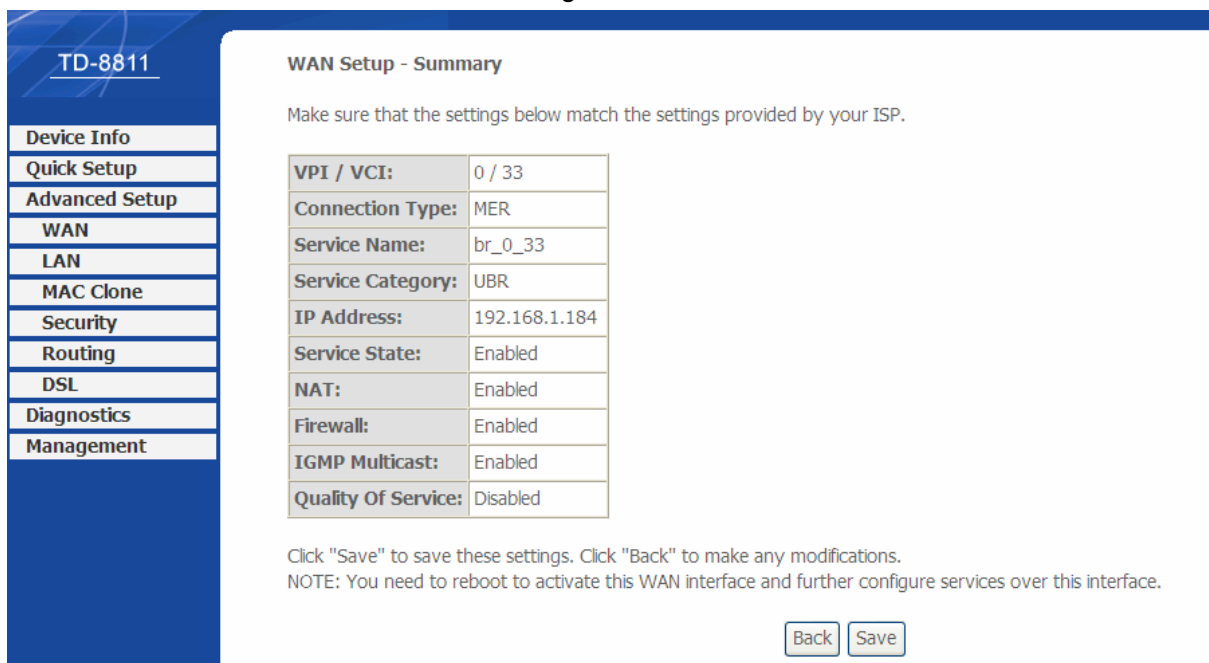


Figure 3-37

### ➤ IP over ATM (IPoA)

If you select the protocol of IP over ATM (IPoA), the Figure 3-38 will display, enter the parameter and the way which is provided by your ISP, then click the **next** button.

The screenshot shows the WAN IP Settings page. On the left is a navigation menu with the following items: TD-8811, Device Info, Quick Setup, Advanced Setup, WAN, LAN, MAC Clone, Security, Routing, DSL, Diagnostics, and Management. The main content area is titled "WAN IP Settings" and contains the following text: "Enter information provided to you by your ISP to configure the WAN IP settings." Below this is a notice: "Notice: DHCP is not supported in IPoA mode. Changing the default gateway or the DNS effects the whole system. Configuring them with static values will disable the automatic assignment from other WAN connection." The form includes the following fields: WAN IP Address (192.168.1.184), WAN Subnet Mask (255.255.255.0), a checked checkbox for "Use the following default gateway:", a checked checkbox for "Use IP Address:" (192.168.1.1), an unchecked checkbox for "Use WAN Interface:" (dropdown menu), an unchecked checkbox for "Use the following DNS server addresses:", Primary DNS server (empty), and Secondary DNS server (empty). At the bottom right are "Back" and "Next" buttons.

Figure 3-38

You will see the page (Figure 3-39), then turn on the selected functions according to your needs. Clicking the **next** button to enter the next step, you will see the Figure 3-40, finally click **save** to complete the configuration.

The screenshot shows the Network Address Translation Settings page. On the left is a navigation menu with the following items: TD-8811, Device Info, Quick Setup, Advanced Setup, WAN, LAN, MAC Clone, Security, Routing, DSL, Diagnostics, and Management. The main content area is titled "Network Address Translation Settings" and contains the following text: "Network Address Translation (NAT) allows you to share one Wide Area Network (WAN) IP address for multiple computers on your Local Area Network (LAN)." Below this are the following settings: "Enable NAT" (checked), "Enable Firewall" (checked), "Enable IGMP Multicast, and WAN Service" section with "Enable IGMP Multicast" (checked) and "Enable WAN Service" (checked), and "Service Name:" (br\_0\_33). At the bottom right are "Back" and "Next" buttons.

Figure 3-39

**TD-8811**

**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:         | 192.168.1.184 |
| 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](#)

Figure 3-40

### ➤ Bridging

If you select the Bridging protocol, you just open the bridge service function options, you will see the Figure 3-41, then click the **next** button, you will see the Figure 3-42, press **save** to complete the configuration finally.

**TD-8811**

**Unselect the check box below to disable this WAN service**

Enable Bridge Service:

Service Name:

[Back](#) [Next](#)

Figure 3-41

**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](#)

Figure 3-42

**Note:**

After you complete the settings, the new settings must be saved and the Router must be restarted for the settings to take effect. Please press the **Save/Reboot** button on the Figure 3-43 to restart.

**Wide Area Network (WAN) Setup**

Choose Add, Edit, or Remove to configure WAN interfaces.  
Choose Save/Reboot to apply the changes and reboot the system.

| VPI/VCI | Con. ID | Category | Service  | Interface | Protocol | MTU  | Igmp | QoS      | State   | Remove                   | Edit                 |
|---------|---------|----------|----------|-----------|----------|------|------|----------|---------|--------------------------|----------------------|
| 0/32    | 1       | UBR      | br_0_32  | nas_0_32  | Bridge   | 1500 | N/A  | Disabled | Enabled | <input type="checkbox"/> | <a href="#">Edit</a> |
| 1/33    | 1       | UBR      | br_1_33  | nas_1_33  | Bridge   | 1500 | N/A  | Disabled | Enabled | <input type="checkbox"/> | <a href="#">Edit</a> |
| 0/35    | 1       | UBR      | br_0_35  | nas_0_35  | Bridge   | 1500 | N/A  | Disabled | Enabled | <input type="checkbox"/> | <a href="#">Edit</a> |
| 0/100   | 1       | UBR      | br_0_100 | nas_0_100 | Bridge   | 1500 | N/A  | Disabled | Enabled | <input type="checkbox"/> | <a href="#">Edit</a> |
| 8/35    | 1       | UBR      | br_8_35  | nas_8_35  | Bridge   | 1500 | N/A  | Disabled | Enabled | <input type="checkbox"/> | <a href="#">Edit</a> |
| 8/81    | 1       | UBR      | br_8_81  | nas_8_81  | Bridge   | 1500 | N/A  | Disabled | Enabled | <input type="checkbox"/> | <a href="#">Edit</a> |
| 0/200   | 1       | UBR      | br_0_200 | nas_0_200 | Bridge   | 1500 | N/A  | Disabled | Enabled | <input type="checkbox"/> | <a href="#">Edit</a> |

[Add](#) [Remove](#) [Save/Reboot](#)

Figure 3-43

**Note:**

All of the above setting is under windows XP OS.

### 3.5 Software Dial

If TD-8811 CPE work in bridged (RFC 1483 Bridged) mode when it connects Internet. You must install dial software on your PC. There are some software working on Windows in market,



example for EnterNet3000, RASPPPoE and 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 setting page.
- Please 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**.
- Type an **ISP account name** and **password**, if you have forgotten an existing account name or password, please connect with your ISP, 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, type the account name and password, then click **connect** to connect the Internet.

### 3.6 USB Configuration

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

#### 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.

Then you will see the Figure 3-44 require install software for USB Device, select ‘Install from a list or specific location (Advanced)’ and Clicking the **next** button to enter the next step, then Figure 3-45 will display.



Figure 3-44

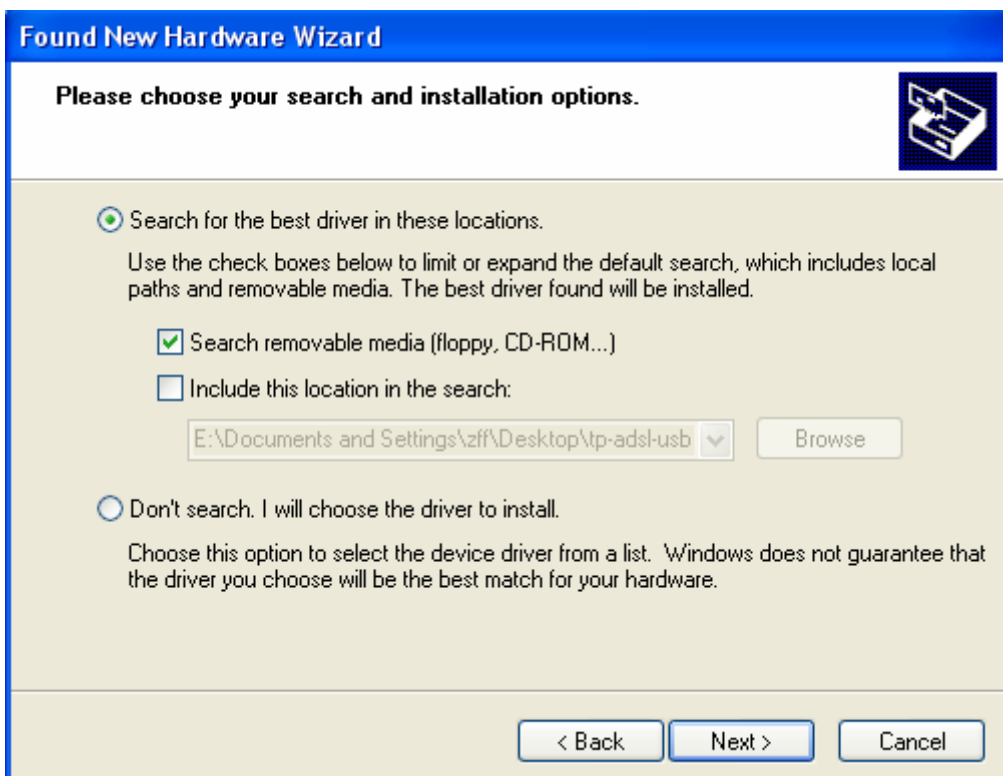


Figure 3-45

Select the 'search removable media(floppy, CD-ROM...)' and click the **next** button, then Figure 3-46 is available. The driver will be searched and installed.

**Note:**

You must insert the CD first.

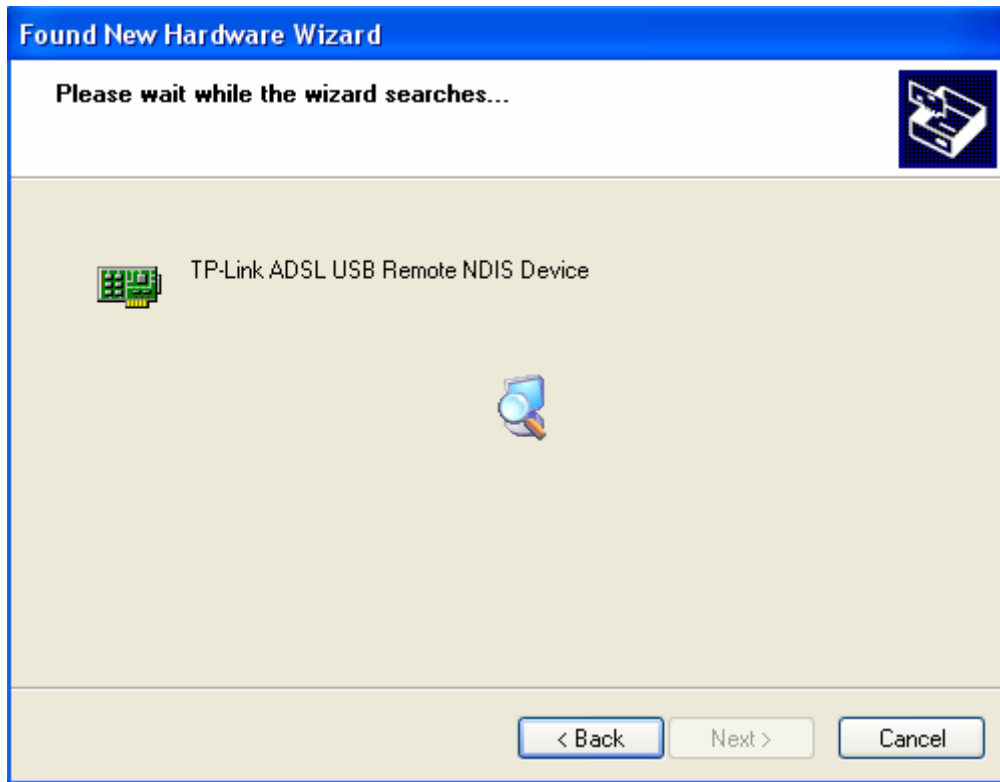


Figure 3-46

After that, you will see the Figure 3-47. The installation completes, click **Finish** to close the installation.

Please refer to [chapter 3.1](#) to finish the IP configuration for USB connect. Then you could use the USB device.



Figure 3-47

 **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: 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 RIP(Routing Information Protocol)
- Configure IP route
- Configure Security rule
- Configure DSL parameter

 **Note:**

If you want to acquire further details, please access our website ([www.tp-link.com](http://www.tp-link.com)) and consult the User Guide of TD-8811.

## Appendix A: FQA

1. **What related parameters are required to acquire ISP when you want to access the internet by ADSL2+ 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**
  - 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.
  - 3) Encapsulation mode of AAL5 include: LLC/SNAP and VC\_MAX(often using LLC/SNAP).
3. **The LAN's and the NIC's LED both are bright, but why 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 ADSL2+ Router's default configuration if necessary.
4. **Have completed all configurations, but can't dial through computer**
  - 1) Check the indicator of ADSL2+, it should be working 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 software of dial the number, such as Winpoet, Ethernet.
  - 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, ADSL2+ Router will connect automatically.
  - 4) You can check whether your ADSL2+ ROUTER succeeds in connection with **PING** command.

## Appendix B: Default Configuration

|            |                                      |
|------------|--------------------------------------|
| USER NAME  | admin                                |
| PASSWORD   | admin                                |
| IP ADDRESS | 192.168.1.1                          |
| VPI/VCI    | 0/32,1/33,0/35,0/100,0/200,8/35,8/81 |