

A large, stylized gear graphic in white outline is positioned on the left side of the cover, partially overlapping the orange background. The gear has several teeth and a central circular hole.

Tenda

User Guide

4 Antennas Wireless N300 ADSL2+ Modem Router

Copyright Statement

© 2015 Shenzhen Tenda Technology Co., Ltd. All rights reserved.

Tenda is a registered trademark legally held by Shenzhen Tenda Technology Co., Ltd. Other brand and product names mentioned herein are trademarks or registered trademarks of their respective holders. Copyright of the whole product as integration, including its accessories and software, belongs to Shenzhen Tenda Technology Co., Ltd. No part of this publication can be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language in any form or by any means without the prior written permission of Shenzhen Tenda Technology Co., Ltd.

Disclaimer

Pictures, images and product specifications herein are for references only. To improve internal design, operational function, and/or reliability, Tenda reserves the right to make changes to the products without obligation to notify any person or organization of such revisions or changes. Tenda does not assume any liability that may occur due to the use or application of the product described herein. Every effort has been made in the preparation of this document to ensure accuracy of the contents, but all statements, information and recommendations in this document do not constitute the warranty of any kind, express or implied.

Contents

Shortcut to Common Function Setup	v
Chapter 1 Product Overview	1
1.1 What It Does	1
1.2 Product Features	1
1.3 Package Contents	2
1.4 Front Panel	3
1.5 Back Panel	4
Chapter 2 Hardware Installation	5
2.1 DSL Access	5
2.2 Ethernet Access	7
Chapter 3 Internet Setup	9
3.1 Log in to UI (User Interface)	9
3.2 Set up Internet	10
About Link Type	10
About Connection Type	10
Internet Setup Instruction	11
3.3 Quick Wireless Security Setup	18
Chapter 4 Advanced Settings	19
4.1 Device Info	19
4.2 Advanced Setup	22
4.2.1 Layer2 Interface	23
4.2.2 WAN Service	25
4.2.3 LAN Setup	79
4.2.4 NAT	82
4.2.5 Security	87
4.2.6 Parental Control	90
4.2.7 Bandwidth Control	93
4.2.8 Routing	94
4.2.9 DNS	96
4.2.10 DSL	99
4.2.11 Storage Service	100
4.2.12 Interface Grouping	103
4.2.13 IP Tunnel	105
4.2.14 Certificate	106
4.2.15 Multicast	109
4.2.16 IPTV	111
4.3 Wireless	112
4.3.1 Basic	112
4.3.2 Security	113
4.3.3 MAC Filter	116
4.3.4 Wireless Bridge	117
4.3.5 Station Info	125
4.4 Diagnostics	125

4.4.1 Diagnostics.....	126
4.4.2 Ping test.....	126
4.5 Management.....	127
4.5.1 Settings.....	127
4.5.2 System Logs.....	128
4.5.3 SNMP Agent.....	129
4.5.4 TR-069 Client.....	130
4.5.5 Internet Time.....	131
4.5.6 Access Control.....	132
4.5.7 Update Software.....	133
4.5.8 Reboot.....	136
Appendix 1 Applications.....	137
Application 1: How to change SSID and wireless password?.....	137
Application 2: How to reset the modem router?	138
Method 1: WPS/RST button	138
Method 2: Restore Default Settings from User Interface.....	138
Appendix 2 Configure Your PC.....	139
Windows 8	139
Windows 7	141
MAC	143
Appendix 3 Join Your Wireless Network.....	144
Windows 8	144
Windows 7	145
MAC	146
iPhone/iPad	147
Appendix 4 FAQs	148
Appendix 5 VPI/VCI List	149
Appendix 6 Regulatory Compliance Information	165

Shortcut to Common Function Setup

How to set up the Internet connection?	GO
How to change your SSID (WiFi name) and password?	GO
How to change your login username and password?	GO
How to make your kids surf the Internet safely?	GO
How to set bandwidth for a specified host or client?	GO
How to restrict a host to access your wireless network?	GO
How to access a USB storage?	GO
How to expand your wireless network coverage?	GO
How to make your set-top box available?	GO
How to reset the modem router to factory defaults?	GO

© 2015 Shenzhen Tenda Technology Co., Ltd. All rights reserved.

Technical Support: support@tenda.com.cn

Telephone: (86 755) 2765 7180

Email: sales@tenda.com.cn

Website: <http://www.tendacn.com>

Skype: tendasz

YouTube: Tendasz1999

Chapter 1 Product Overview

Get to know your modem router overall. This part includes the following:

1.1 What It Does

1.2 Product Features

1.3 Package Contents

1.4 Front Panel

1.5 Back Panel

1.1 What It Does

The Wireless ADSL2+ Modem Router, integrated with functions of ADSL2+ modem and wireless router, is especially designed for ordinary home users. So it supports telephone cable access and Ethernet cable access. Up to 300M wireless speed (fluently play file transfers, streaming HD video, and multiplayer gaming) can match the family requests perfectly. The auto-detecting link type and PVC make you set up the modem router quickly and easily. More advanced features, like Parental Control, USB Storage Service, Bandwidth Control, Interface Grouping, IPTV, IP Tunnel and Connection Diagnostics, etc., create a diverse network world for you.



1.2 Product Features

Wireless N: Speeds up to 300 Mbps for streaming HD videos and online gaming in addition to basic Internet applications

All-in-one device combines a built-in ADSL2+ modem, wired router, wireless router and switch

Sharable USB lets you access and share files on an attached USB storage

Bandwidth Control helps prioritize media streaming and gaming applications for best entertainment experience

Parental Control keeps your kids Internet experience safe using flexible and customizable filter settings

One-touch WPS ensures a quick and secure network connection

WEP and WPA/WPA2 are supported for advanced encryptions

Compatibility: Works with all major ADSL Internet service providers (ISPs); backward compatible with 802.11b/g WiFi devices

Interchangeable LAN/WAN ports to schedule the Ethernet port to function either as a LAN or a WAN port

Interchangeable LAN/IPTV to schedule the Ethernet port to function either as a LAN or an IPTV port

Optional Ethernet and ADSL Uplinks: Access the Internet via ADSL2+ Broadband Internet Service or an interchangeable LAN/WAN RJ45 port

Multiple Internet Connection Types: PPPoE, PPPoA, IPoA, Bridge, dynamic IP and static IP

IPTV Service lets you surf the Internet while watching online TV

6000V lightning-proof design fits into lightning-intensive environment

Strong driving capability up to 6.5Km transmission distance

High speed ADSL speed up to 24Mbps downstream 1Mbps upstream

Built-in firewall prevents hacker attacks

Channel auto-select for optimum performance

FDM technology enables telephoning, faxing and surfing activities to proceed simultaneously without mutual interference

Other Advanced Features: IPv6, DDNS, virtual server, DMZ, port triggering, IP filter, MAC filter and UPnP, etc.

Tenda Green: Equipped with hardware buttons Power On/Off and WiFi On/Off. You can conveniently turn on or off power and WiFi to save energy when not in use

1.3 Package Contents

Your box should contain the following items:

- 4 Antennas Wireless N300 ADSL2+ Modem Router
- Ethernet Cable
- Phone Cables (2)
- ADSL Splitter
- Install Guide
- Power Adapter

If any of the parts are incorrect, missing, or damaged, keep the carton, including the original packing materials and contact your Tenda dealer for immediate replacement.

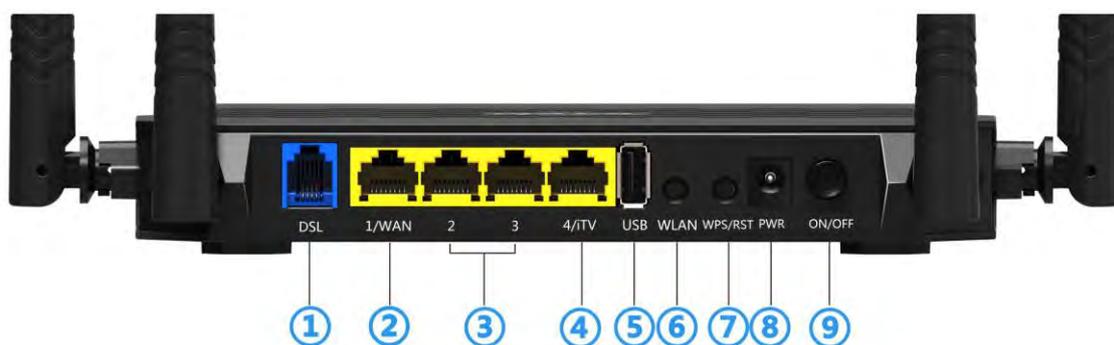
1.4 Front Panel



The LEDs on the device are described below:

Item	Name	Status	Description
①	PWR	Solid	Power electricity is provided to the device properly.
		Off	Power is off.
②	SYS	Solid/Off	The system is malfunctioning.
		Blinking	The system works properly.
③	INTERNET	Solid	The device is connected to the Internet properly.
		Blinking	Transmitting Internet data...
		Off	The device is not connected to the Internet.
④	USB	Solid	A USB device is connected to the device.
		Blinking	A USB device is connected and is working.
		Off	No USB device is connected to the device.
⑤	WPS	Solid	A wireless device is connected to the device via WPS successfully. It will be off in 5 minutes.
		Blinking	It is waiting for a wireless device to join in.
		Off	Wireless device has finished WPS negotiation or WPS is disabled.
⑥	WLAN	Solid	The wireless is enabled.
		Blinking	The wireless is enabled and data is being transmitted via wireless.
		Off	The wireless is disabled.
⑦	4/iTV, 3, 2, 1/WAN	Solid	The port is connected.
		Blinking	The port is connected and data is being transmitted.
		Off	The port is not connected.
⑧	DSL	Solid	DSL link is connected.
		Blinking	DSL link is negotiating.
		Off	DSL link is disconnected.

1.5 Back Panel



Item	Name	Description
①	DSL	RJ11 port. Connect the telephone line from ISP to this port for DSL service connection.
②	1/WAN	LAN port or WAN port. When you access the Internet via the DSL, this port works as a LAN port which can be used to connect to a PC, switch, or a router; when you access the Internet via an Ethernet cable from your ISP directly, this port works as a WAN port. Note: It works as a LAN port by default.
③	2/3	LAN port. Connect your devices like computer to this port.
④	4/iTV	LAN port or IPTV port. When IPTV feature is disabled, it works as a LAN port which can be used to connect to a PC, switch or a router; when IPTV feature is enabled, it works as an IPTV port, and it can only be connected to a Set-Top Box. Note: IPTV feature is disabled by default.
⑤	USB	Used to connect a USB storage service for LAN sharing.
⑥	WLAN	Press this button for 3 seconds to enable/ disable WiFi.
⑦	WPS/RST	Press it for 1-3 seconds to do WPS negotiation. (Make sure WPS is enabled on Wireless > Security screen ahead.) Press it for 8 seconds to restore all configurations to factory defaults.
⑧	PWR	Connect the modem router to power supply via this port.
⑨	ON/OFF	Turn ON or OFF the modem router.

Chapter 2 Hardware Installation

Before you start to cable the modem router, you should figure out your Internet access type. Cable you modem router correctly, and make sure it works well. It supports two types of access, **DSL access** and **Ethernet access**. Choose your access type and cable your device and modem router.

This part includes the following:

2.1 DSL Access

2.2 Ethernet Access

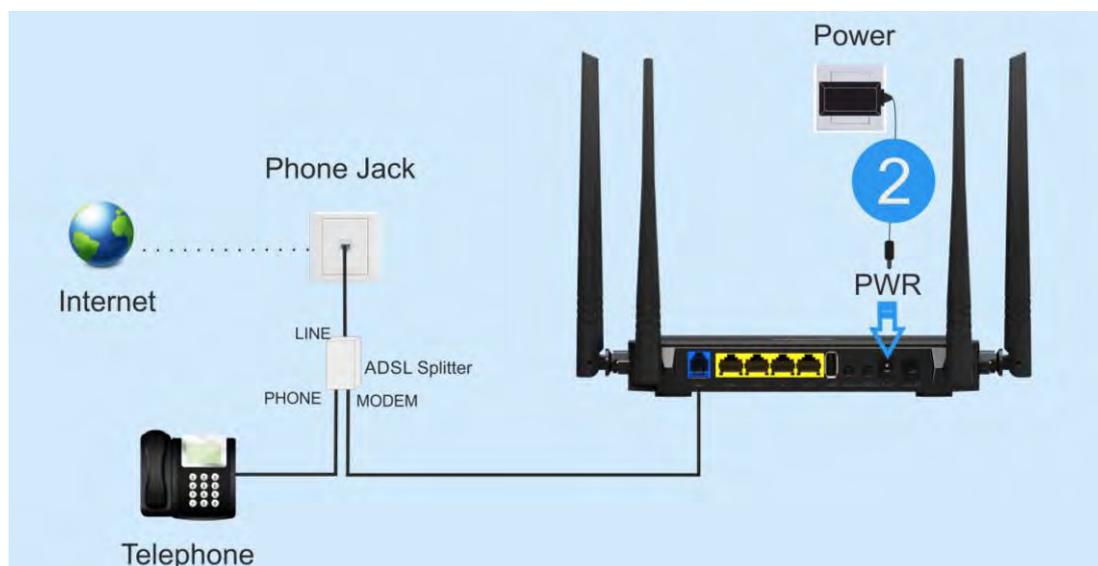
2.1 DSL Access

▪ **DSL access** cabling is detailed below. Cable the modem router and your computer following the steps ① → ② → ③.

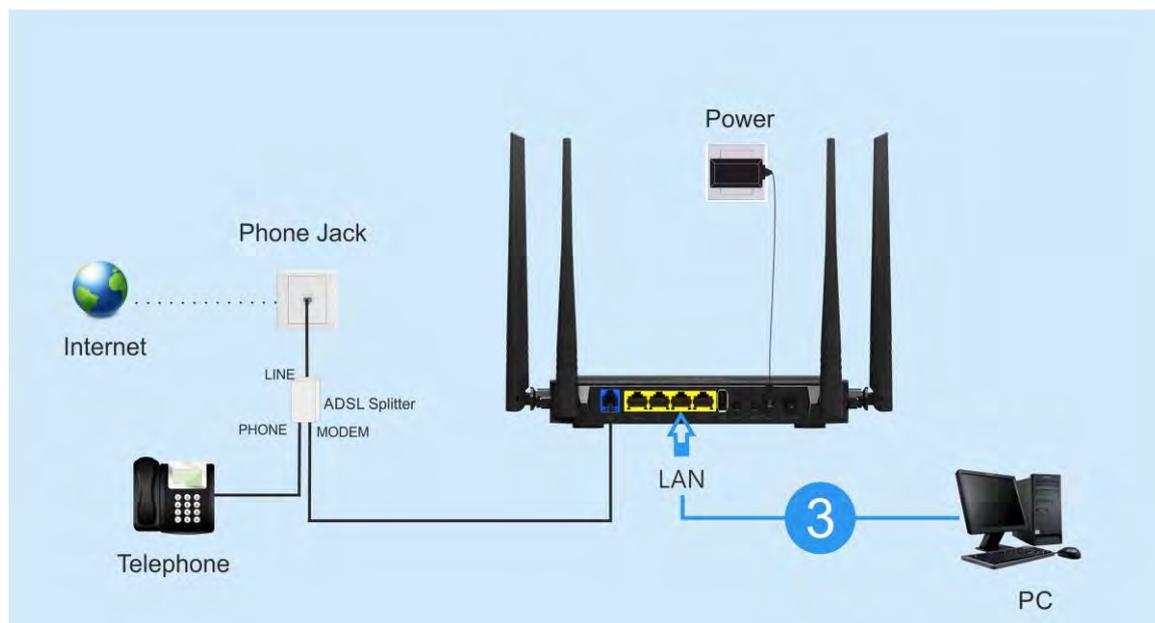
① Insert the telephone line provided by your ISP into the DSL port of the modem router. (If you are using telephone service and Internet service simultaneously, cable the ADSL splitter as the diagram below shows.)



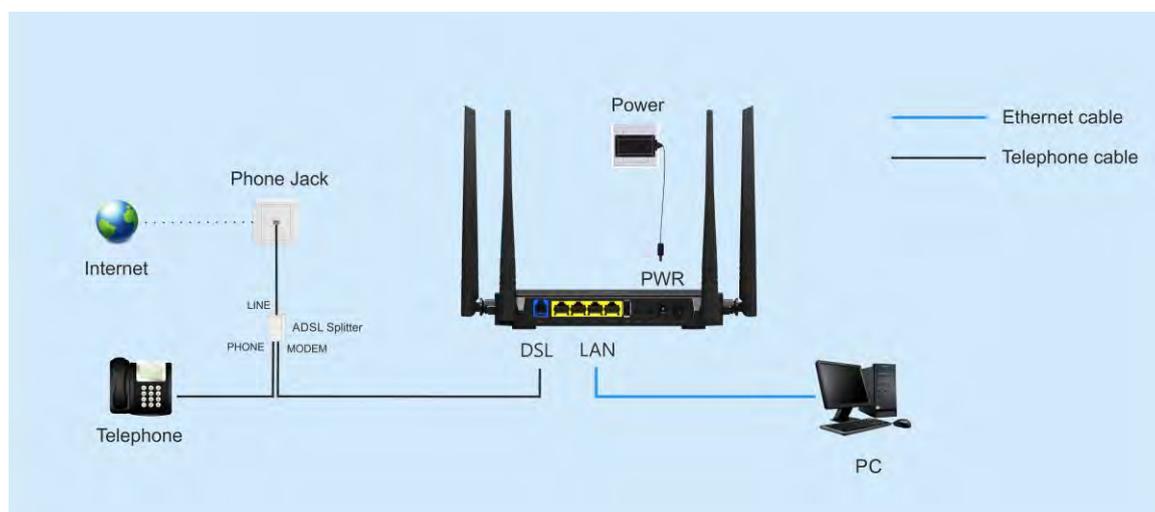
② Connect the modem router to the power supply with the attached power adapter.



- ③ Connect your computer to the LAN port of the modem router.



The overall diagram of DSL Access is shown below:



TIP

1. Before connecting, make sure the Internet service is available.
2. ADSL splitter is used to make you active in phone service and Internet service simultaneously. If you don't need the telephone service, just connect the telephone line from your ISP to the DSL port.
3. Make sure that the DSL LED indicator is on and then configure the modem router.
4. Please use the included power adapter. Use of a power adapter with different voltage rating may damage the device.

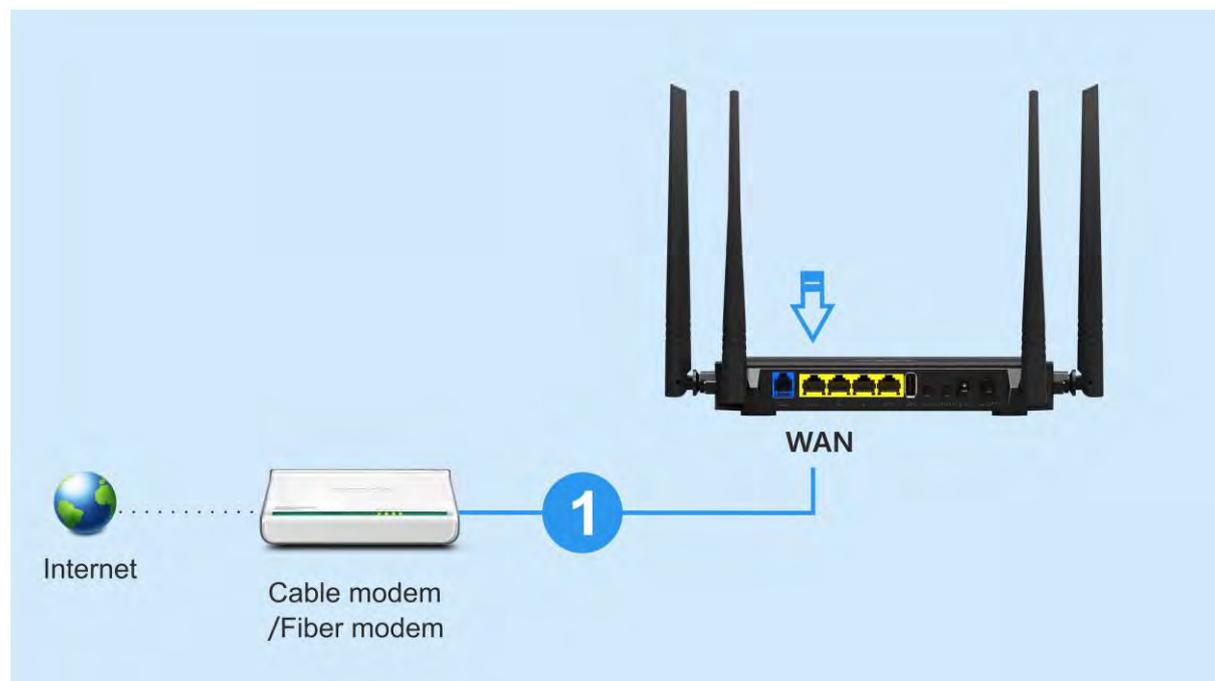
2.2 Ethernet Access

▪ **Ethernet access** cabling is detailed below. Cable the modem router and your computer following the steps

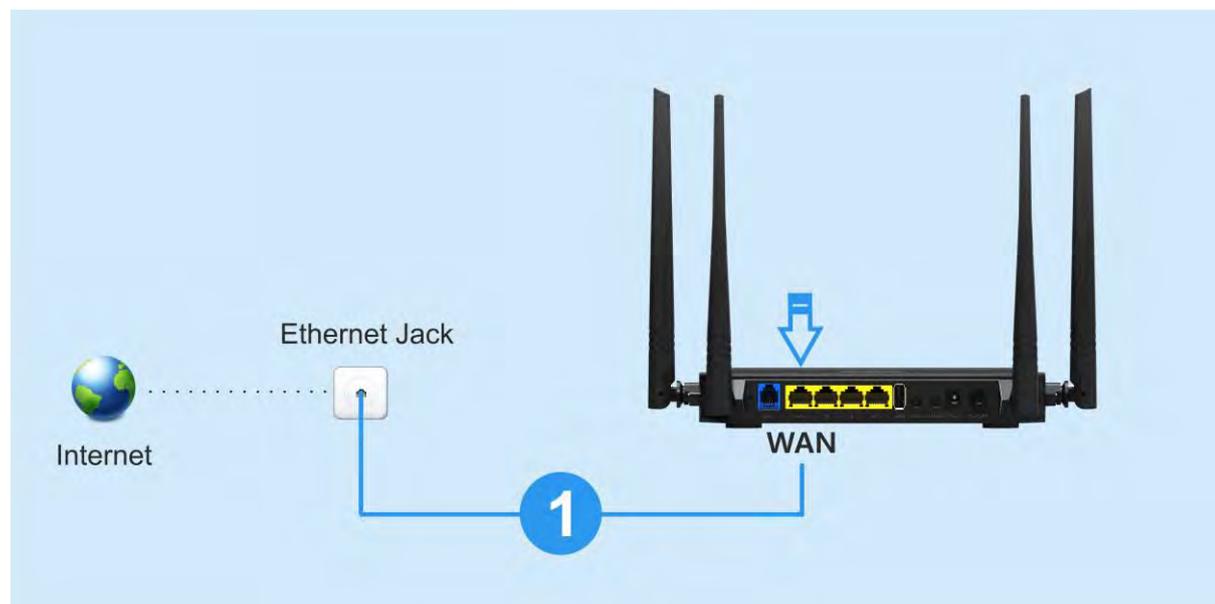
①→②→③.

Note that you may get to the Internet via a modem or an Ethernet cable directly, choose your access type correctly and follow the diagram.

a1. If you get to the Internet via a **modem** (cable modem or fiber modem), follow this one.

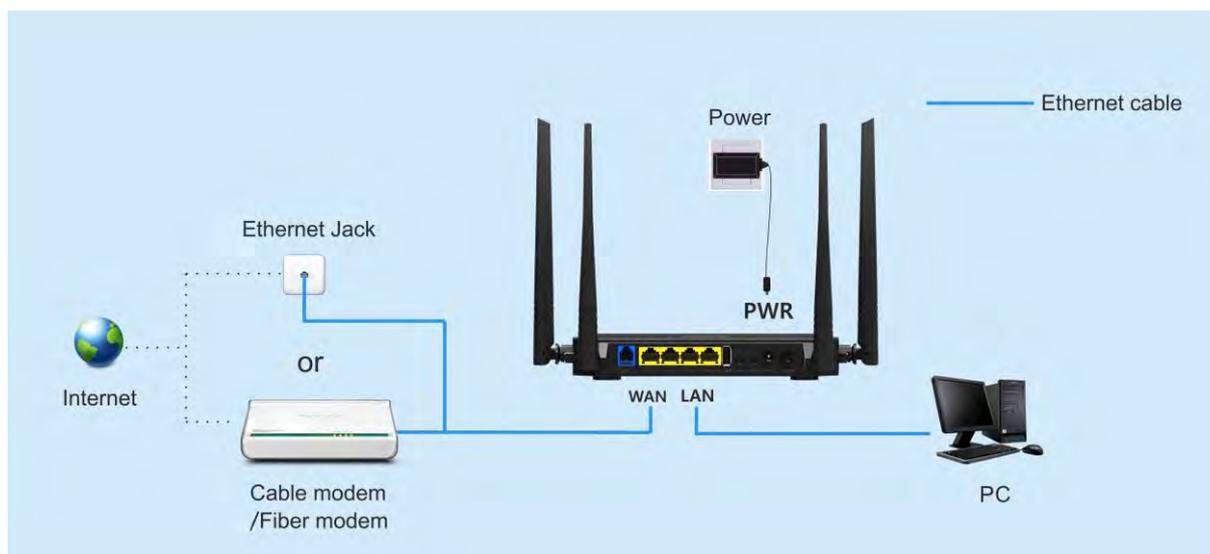


b1. If you get to the Internet via **Ethernet cable** directly, follow this one.



Steps **2** and **3** are same with that of DSL access. Click [here](#) to check.

The overall diagram of Ethernet Access is shown below:

**TIP**

1. Before connecting, make sure the Internet service is available.
2. Disconnect the modem router from WAN or DSL connection, and unplug it from the power when it is thunderstorm.

Chapter 3 Internet Setup

Internet setups are detailed in this part, which include connection types, link types and wireless security setup, etc.

This part includes the following:

3.1 Log in to UI

3.2 Set up Internet

3.3 Quick Wireless Security Setup

3.1 Log in to UI (User Interface)

To configure the parameters of the modem router, you should log in to its UI (User Interface) first.

- ① Set your PC to Obtain an IP address automatically. For more information, see [Appendix 2 Configure Your PC](#).
- ② Launch a web browser and enter **192.168.1.1** to display the login window.



- ③ Enter **admin** in both the login User Name and Password fields if you access the router for the first time and then click **Login** to enter the home page.



TIP

If you forgot your login user name and password, press the WPS/RST button on the device for about 8 seconds to reset the router, and then re-log in with the default user name and password “admin”.

3.2 Set up Internet

The device supports auto-detecting link type and PVC, which can help you configure the device easily and quickly. If you do want to configure the details, take below for references.

About Link Type

Link Type: Auto

Connection Type

Auto PVC scan

Link type includes three options: **Auto**, **DSL** and **Ethernet**.

Auto is recommended to you if you cannot figure out which type your Internet access is.

DSL is for a telephone line access, which means you access Internet service with a telephone line.

Ethernet is for an Ethernet cable access. If you are using this modem router with cable modem or fiber modem; or you get an Ethernet cable access directly, select Ethernet.

About Connection Type

Link Type: DSL

Connection Type: PPPoE

Auto PVC scan

Country

ISP

The device supports the following connection types, IPoE (Dynamic IP or Static IP), PPPoE, IPoA, PPPoA and Bridge.

You can set up Internet quickly on the Home page or click  icon for more info about advanced settings.

Internet Setup Instruction

For DSL access

- **PPPoE**

The screenshot shows the 'Primary Setup' configuration page. The 'Link Type' dropdown is set to 'DSL' and the 'Connection Type' dropdown is set to 'PPPoE'. The 'Auto PVC scan' checkbox is checked. The 'Country' and 'ISP' dropdowns are both set to 'Other'. The 'VPI/VCI' fields are set to 'VPI 0 (0-255)' and 'VCI 35 (0-65535)'. The 'User Name' field contains 'xxxxxxxx' and the 'Password' field contains '*****'. Three blue callout boxes with numbers 1, 2, and 3 are overlaid on the form. Callout 1 points to the 'Link Type' and 'Connection Type' dropdowns. Callout 2 points to the 'Auto PVC scan' checkbox and the 'Country' and 'ISP' dropdowns. Callout 3 points to the 'User Name' and 'Password' input fields.

- ① Select **Auto** or **DSL** link type and select **PPPoE** connection type. (Note that Auto mode only supports two connection types: PPPoE and IPoE.)
- ② Check **Auto PVC scan**. If the scan failed, uncheck this option and configure the PVC and country settings manually. Click [here](#) to check PVC value or consult your ISP if you cannot locate this info.
- ③ Type the user name and password of PPPoE provided by your ISP.
- ④ [Finish the wireless setup](#). (Recommended)
- ⑤ Click **OK**.

- **PPPoA**

Primary Setup

Link Type: DSL

Connection Type: PPPoA

Auto PVC scan:

Country: Other

ISP: Other

VPI/VCI: VPI 0 (0-255) VCI 35 (0-65535)

User Name: xxxxxxxx

Password:

- ① Select **Auto** or **DSL** link type and select **PPPoA** connection type. (Note that Auto mode only supports two connection types: PPPoE and IPoE.)
- ② Configure the PVC, ISP and country settings manually. Click [here](#) to check PVC value or consult your ISP if you cannot locate this info. (Note that Auto PVC scan is not available for PPPoA.)
- ③ Type the user name and password of PPPoA provided by your ISP.
- ④ [Finish the wireless setup](#). (Recommended)
- ⑤ Click **OK**.

- IPoE

Primary Setup

Link Type: DSL

Connection Type: IPoE

Auto PVC scan:

Country: Other

ISP: Other

VPI/VCI: VPI 0 (0-255) VCI 35 (0-65535)

Address Mode: Static IP

IP Address: xxx.xxx.xxx.xxx

Subnet Mask: xxx.xxx.xxx.xxx

Gateway: xxx.xxx.xxx.xxx

Primary DNS: xxx.xxx.xxx.xxx

Secondary DNS:

- ① Select **Auto** or **DSL** link type and select **IPoE** connection type.
- ② Check **Auto PVC scan**. If the scan failed, uncheck this option and configure the PVC and country settings manually. Click [here](#) to check PVC value or consult your ISP if you cannot locate this info.
- ③ Select your address mode (**Dynamic IP** or **Static IP**). This is depending on your ISP.
 - **Dynamic IP** mode requires nothing.
 - **Static IP** requires a group of IP info provided by your ISP. Type them in the corresponding field.
- ④ [Finish the wireless setup](#). (Recommended)
- ⑤ Click **OK**.

▪ **IPoA**

Primary Setup

Link Type: DSL

Connection Type: IPoA

Auto PVC scan:

Country: Other

ISP: Other

VPI/VCI: VPI 0 (0-255) VCI 35 (0-65535)

Address Mode: Static IP

IP Address: xxx.xxx.xxx.xxx

Subnet Mask: xxx.xxx.xxx.xxx

Primary DNS: xxx.xxx.xxx.xxx

Secondary DNS:

- ① Select **Auto** or **DSL** link type and select **IPoA** connection type.
- ② Configure the PVC, ISP and country settings manually. Click [here](#) to check PVC value or consult your ISP if you cannot locate this info. (Note that Auto PVC scan is not available for IPoA.)
- ③ Select your address mode **Static IP**. And type the IP info provided by your ISP in the corresponding field.
- ④ [Finish the wireless setup](#). (Recommended)
- ⑤ Click **OK**.

- **Bridge**

Primary Setup

Link Type: DSL

Connection Type: Bridge

Auto PVC scan:

Country: Other

ISP: Other

VPI/VCI: VPI 0 (0-255) VCI 35 (0-65535)

- ① Select **Auto** or **DSL** link type and select **Bridge** connection type.
- ② Configure the PVC, ISP and country settings manually. Click [here](#) to check PVC value or consult your ISP if you cannot locate this info. (Note that Auto PVC scan is not available for Bridge.)
- ③ [Finish the wireless setup](#). (Recommended)
- ④ Click **OK**.

When Bridge mode in DSL access is enabled, dial up from the local PC with the account provided by your ISP for Internet service.

!NOTE

If your country and/or your ISP are not covered on the Home page, select “Other” from the country list and configure the VPI and VCI value manually. If you cannot locate this information, refer to [Appendix 5 VPI/VCI List](#) or ask your ISP to provide it. For more information, see [To Set up the ATM interface](#) and [To Set up WAN Service for ATM Interface](#).

For Ethernet access

▪ PPPoE

Primary Setup

Link Type	Ethernet ▼	1
Connection Type	PPPoE ▼	
User Name	XXXXXXXX	2
Password	*****	

- ① Select **Auto** or **Ethernet** link type and select **PPPoE** connection type.
- ② Type the user name and password of PPPoE provided by your ISP.
- ③ [Finish the wireless setup](#). (Recommended)
- ④ Click **OK**.

▪ IPoE

Primary Setup

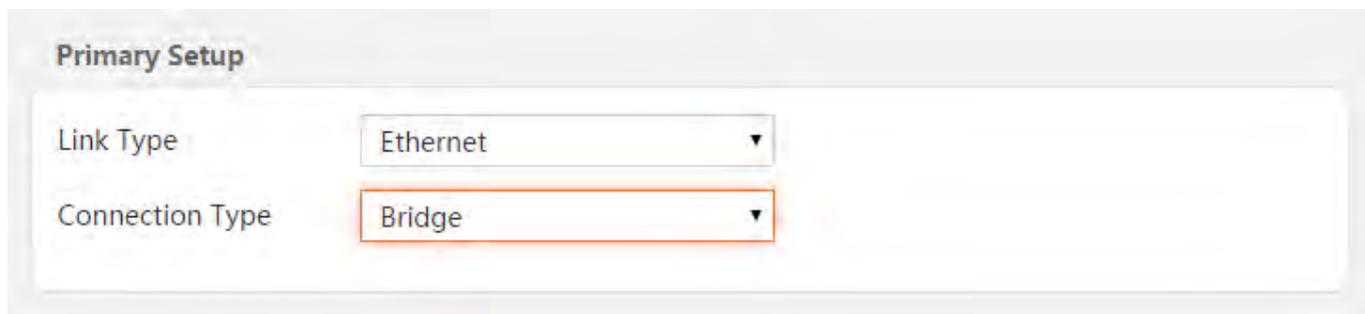
Link Type	Ethernet ▼	1
Connection Type	IPoE ▼	
Address Mode	Static IP ▼	2
IP Address	XXX.XXX.XXX.XXX	
Subnet Mask	XXX.XXX.XXX.XXX	
Gateway	XXX.XXX.XXX.XXX	
Primary DNS	XXX.XXX.XXX.XXX	
Secondary DNS		

- ① Select **Auto** or **Ethernet** link type and select **IPoE** connection type.
- ② Select your address mode (**Dynamic IP** or **Static IP**). This is depending on your ISP.
 - **Dynamic IP** mode requires nothing.

- **Static IP** requires a group of IP info provided by your ISP. Type them in the corresponding field.

- ③ [Finish the wireless setup](#). (Recommended)
- ④ Click **OK**.

▪ Bridge

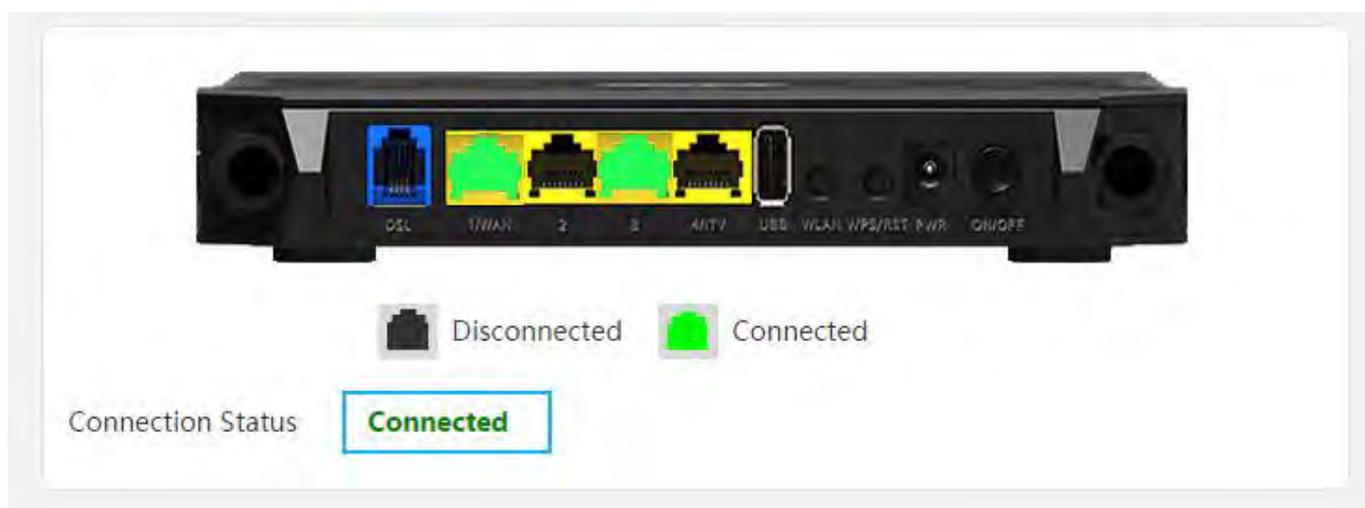


- ① Link Type: Select **Auto** or **Ethernet**.
- ② Select **Bridge** connection type.
- ③ [Finish the wireless setup](#). (Recommended)
- ④ Click **OK**.

When Bridge mode in Ethernet access is enabled, dial up from the local PC with the account provided by your ISP for Internet service.

Test Internet Connectivity

After the device is correctly set, it may get to the Internet. (Connection Status: **Connected**)



You can launch a web browser and search www.tendacn.com. If the webpage displays, you are able to enjoy the Internet service.

3.3 Quick Wireless Security Setup

On Home Page, you can set up the basic wireless parameters, like wireless SSID, wireless key and RF Power (namely signal strength). Also, you can disable or enable wireless feature here.

After you have finished settings, click to save and apply them.

Wireless Setup--2.4G

Wireless Enable

RF Power: Normal Enhance

Wireless SSID (Up to 32 ASCII)

Wireless Key

Wireless Key is made up of 8-63 ASCII or 64 hex characters.

Wireless Enable: Check it to enable wireless feature.

RF Power: Namely signal strength. It includes **Normal** and **Enhance** options. Enhance means stronger signal.

Wireless SSID: It is the name of your WiFi. Set it as you like.

Wireless Key: It is the key of your WiFi. The WiFi is unencrypted by default, but there is a preset key in the wireless key field. The preset key will work after you click .

NOTE

1. If you change a new wireless key, the current WiFi connection will be stopped. You may try to connect the WiFi with the new wireless key.
 2. To join your wireless network, see [Appendix 3 Join Your Wireless Network](#).
-

Chapter 4 Advanced Settings

This chapter describes the advanced features of your modem router. The information is for users with a solid understanding of networking concepts who want to configure the router for unique situations.

This part includes the following:

4.1 Device Info

4.2 Advanced Setup

4.3 Wireless

4.4 Diagnostics

4.5 Management

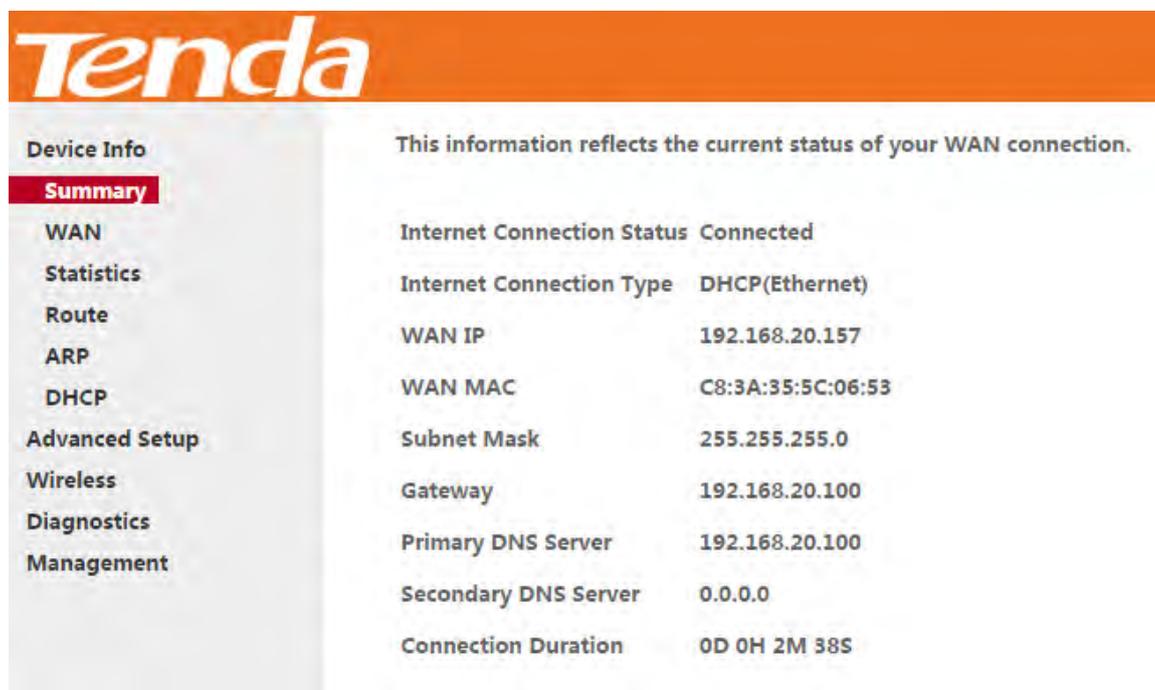
4.1 Device Info

This section includes the following information:

- *Summary*
- *WAN*
- *Statistics*
- *Route*
- *ARP*
- *DHCP*

Summary

Here you can view system information and current status of your WAN connection as seen in the screenshot.



The screenshot shows the Tenda router's web interface. At the top is the Tenda logo. Below it is a navigation menu with 'Device Info' selected. Under 'Device Info', 'Summary' is highlighted. The main content area displays WAN connection information:

This information reflects the current status of your WAN connection.

Internet Connection Status	Connected
Internet Connection Type	DHCP(Ethernet)
WAN IP	192.168.20.157
WAN MAC	C8:3A:35:5C:06:53
Subnet Mask	255.255.255.0
Gateway	192.168.20.100
Primary DNS Server	192.168.20.100
Secondary DNS Server	0.0.0.0
Connection Duration	0D 0H 2M 38S

WAN

Here you can view the WAN Information including Interface, Description, Type, IGMP, NAT, Firewall, Status, IPv4 Address and VLAN ID as seen in the screenshot.

The screenshot shows the Tenda WAN Info page. On the left is a navigation menu with 'WAN' selected. The main content area displays a table with WAN interface details.

Interface	Description	Type	VlanMuxId	IPv6	Igmp	MLD	NAT	Firewall	Status	IPv4 Address	IPv6 Address
eth0.1	ipoe_eth0	IPoE	Disabled	Disabled	Enabled	Disabled	Enabled	Enabled	Connected	192.168.20.157	

Statistics

Here you can view the packets received and transmitted on LAN/WAN ports.

Statistics--LAN: Displays the packets received and transmitted on the LAN ports as seen in the screenshot below.

The screenshot shows the Tenda Statistics -- LAN page. On the left is a navigation menu with 'Statistics' selected. The main content area displays a table with LAN interface statistics.

Interface	Received				Transmitted			
	Bytes	Pkts	Errs	Drops	Bytes	Pkts	Errs	Drops
LAN2	5053	42	0	0	17661	34	0	0
LAN3	0	0	0	0	0	0	0	0
4/iTV	0	0	0	0	0	0	0	0
2.4GHz	0	0	0	0	0	0	0	0

Below the table is a 'Reset Statistics' button.



TIP

2.4GHz interface represents data transmitted and received via wireless.

Statistics--WAN: Displays the packets received and transmitted on the WAN ports as seen in the screenshot below.

The screenshot shows the Tenda web interface with the 'Statistics -- WAN' page. On the left is a navigation menu with 'WAN' highlighted. The main content area displays a table of WAN statistics for the 'eth0.1' interface.

Interface	Description	Received				Transmitted			
		Bytes	Pkts	Errs	Drops	Bytes	Pkts	Errs	Drops
eth0.1	ipoe_eth0	97056447	233301	0	0	82010916	165440	0	0

Below the table is a 'Reset Statistics' button.

Statistics-ADSL: Displays the DSL port status e.g., packets received and transmitted on the DSL port.

The screenshot shows the Tenda web interface with the 'Statistics -- ADSL' page. On the left is a navigation menu with 'ADSL' highlighted. The main content area displays a table of ADSL statistics.

Mode:	
Traffic Type:	
Status:	Disabled
Link Power State:	

Route

Here you can view the route table as seen in the screenshot:

The screenshot shows the Tenda web interface with the 'Device Info -- Route' page. On the left is a navigation menu with 'Route' highlighted. The main content area displays the route table and a legend for flags.

Flags: U - up, ! - reject, G - gateway, H - host, R - reinstate
D - dynamic (redirect), M - modified (redirect).

Destination	Gateway	Subnet Mask	Flag	Metric	Service	Interface
192.168.20.0	0.0.0.0	255.255.255.0	U	0	ipoe_eth0	eth0.1
192.168.20.0	192.168.20.100	255.255.255.0	UG	1	ipoe_eth0	eth0.1
192.168.1.0	0.0.0.0	255.255.255.0	U	0		br0
0.0.0.0	192.168.20.100	0.0.0.0	UG	0	ipoe_eth0	eth0.1

ARP

Here you can view the IP and MAC addresses of the PCs that attach to the device either via a wired or wireless connection as seen in the screenshot:

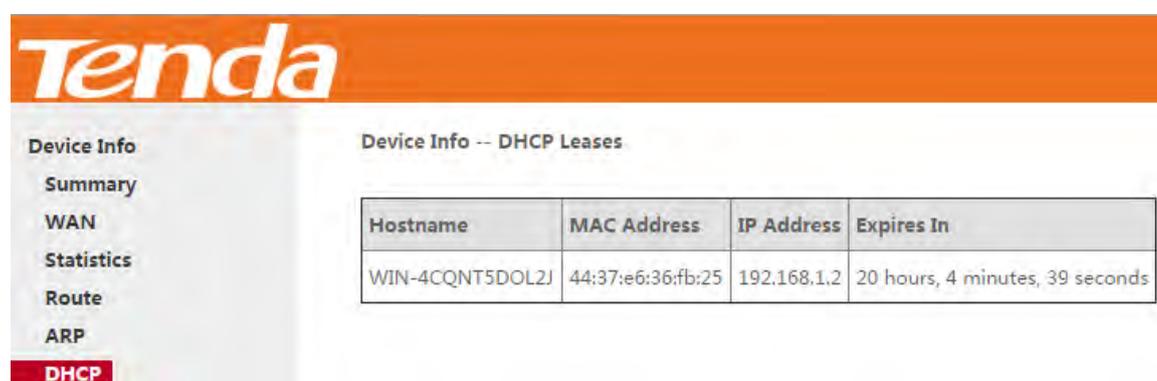


The screenshot shows the Tenda web interface with the 'Device Info -- ARP' page. A table lists three entries with their IP addresses, flags, hardware addresses, and device names.

IP address	Flags	HW Address	Device
192.168.20.125	Complete	c8:9c:dc:54:38:a6	eth0.1
192.168.20.100	Complete	c8:3a:35:00:9c:b8	eth0.1
192.168.1.2	Complete	44:37:e6:36:fb:25	br0

DHCP

Here you can view the DHCP leases, including IP and MAC addresses of the PCs, hostnames and remaining lease time as seen in the screenshot. Note that if the DHCP server is disabled, this info will be hidden.



The screenshot shows the Tenda web interface with the 'Device Info -- DHCP Leases' page. A table lists one DHCP lease with its hostname, MAC address, IP address, and remaining lease time.

Hostname	MAC Address	IP Address	Expires In
WIN-4CQNT5DOL2J	44:37:e6:36:fb:25	192.168.1.2	20 hours, 4 minutes, 39 seconds

4.2 Advanced Setup

This section explains the following information:

- *Layer2 Interface*
- *WAN Service*
- *LAN*
- *NAT*
- *Routing*
- *DSL*
- *DNS*
- *Bandwidth Control*
- *Security*
- *Parental Control*
- *IPTV*
- *Storage Service*
- *Interface Grouping*
- *Certificate*
- *Multicast*
- *IP Tunnel*

4.2.1 Layer2 Interface

Click **Advanced Setup > Layer2 Interface** to enter the Layer2 Interface screen.

This router provides two kinds of Layer2 Interface:

- **ATM Interface** for ADSL broadband Internet service
- **ETH Interface** for connecting to the Internet via an Ethernet cable.

By default, system applies the ATM Interface (ADSL uplink).

If you directly connect to the ADSL line via a phone cable, first refer to [To Set up the ATM interface](#) and then skip to [To Set up WAN Service for ATM Interface](#).

Or if you connect to the Internet via a fiber/cable modem using an Ethernet cable, first refer to [To Set up the ETH interface](#) and then skip to [To Set up WAN Service for ETH Interface](#).

DSL ATM Interface Configuration

Choose Add, or Remove to configure DSL ATM interfaces.

Interface	Vpi	Vci	DSL Latency	Category	Peak Cell Rate(cells/s)	Sustainable Cell Rate(cells/s)	Max Burst Size(bytes)	Min Cell Rate(cells/s)	Link Type	Conn Mode	IP QoS	MPAAL Prec/Alg/Wght	Remove
<input type="button" value="Add"/> <input type="button" value="Remove"/>													

To Set Up the ATM Interface

Select **ATM Interface** and click **Add**.

DSL ATM Interface Configuration

Choose Add, or Remove to configure DSL ATM interfaces.

Interface	Vpi	Vci	DSL Latency	Category	Peak Cell Rate(cells/s)	Sustainable Cell Rate(cells/s)	Max Burst Size(bytes)	Min Cell Rate(cells/s)	Link Type	Conn Mode	IP QoS	MPAAL Prec/Alg/Wght	Remove
<input type="button" value="Add"/> <input type="button" value="Remove"/>													

Enter the VPI and VCI values, select a DSL Link Type (Internet connection type): EoA (EoA is for PPPoE, IPoE, and Bridge.), PPPoA or IPoA. Leave other options unchanged from factory defaults and click **Apply/Save** and then refer to [To Set up WAN Service for ATM Interface](#) to configure the WAN service for Internet access.



TIP

If you are unsure about the VPI/VCI parameters, see [Appendix 5 VPI/VCI List](#). Or if your ISP and the VPI/VCI information is not covered there, ask your ISP to provide it.

To Set Up the ETH Interface

Select **ETH Interface** and click **Add**.

Tenda

Device Info
Advanced Setup
Layer2 Interface
ATM Interface
ETH Interface
WAN Service
LAN
NAT

ETH WAN Interface Configuration

Choose Add, or Remove to configure ETH WAN interfaces.
Allow one ETH as layer 2 wan interface.

Interface/(Name)	Connection Mode	Remove

Add Remove

Tenda

Device Info
Advanced Setup
Layer2 Interface
ATM Interface
ETH Interface
WAN Service
LAN
NAT
Security

ETH WAN Configuration

This screen allows you to configure a ETH port .

If below option is blank, go to the Interface Grouping screen and remove the eth0 you have added.

Select a ETH port:

eth0/eth0 ▼

Back Apply/Save

Eth0 is 1/WAN port on the back of the device. It is to function as a WAN port here. After you finish your settings, click

and then refer to [To Set up WAN Service for ETH Interface](#) to configure the WAN service for Internet access.

4.2.2 WAN Service

This router provides two WAN services:

- WAN Service for ATM Interface (ADSL uplink)
- WAN Service for ETH Interface (Ethernet uplink)

To Set up WAN Service for ATM Interface

- **EoA (PPPoE, IPoE and Bridge)**

If you configured the **ATM Interface** (ADSL uplink) and select **EoA** as the DSL link type, follow below steps to configure the WAN service:

PPPoE

IPv4 Only

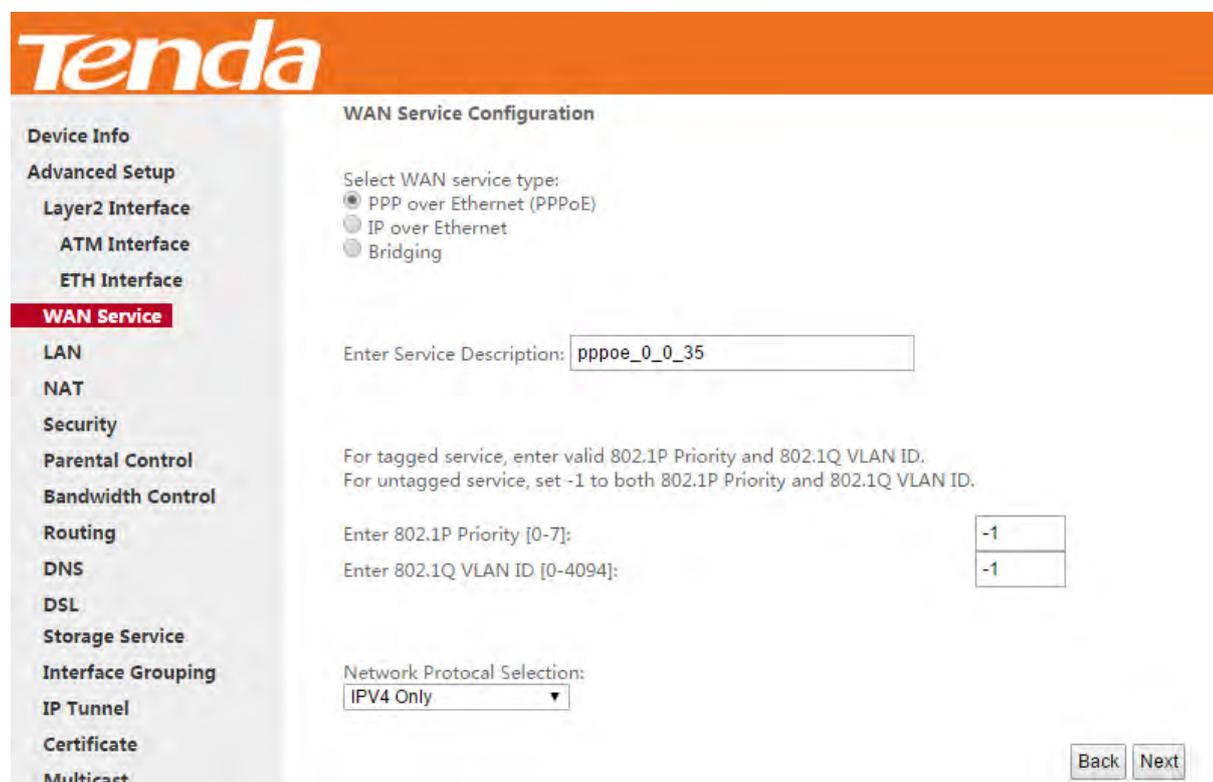
Step 1: Click **Advanced Setup > WAN Service** and then click the **Add** button.



Step 2: Select the ATM interface you added just now from the pull-down menu in the figure below. Click **Next**.



Step 3: Select **PPP over Ethernet (PPPoE)**. Edit the **Enter Service Description** field which is optional. Suggest you keep the default. Select a network protocol: **IPv4 Only**. Click **Next**.



Step 4: Finish PPP Username and Password and other settings on the figure below. Click **Next**.

The screenshot shows the Tenda router's configuration page for PPP settings. The left sidebar contains a navigation menu with categories like Device Info, Advanced Setup, Layer2 Interface, ATM Interface, ETH Interface, WAN Service (highlighted), LAN, NAT, Security, Parental Control, Bandwidth Control, Routing, DNS, DSL, Storage Service, Interface Grouping, IP Tunnel, Certificate, Multicast, IPTV, Wireless, Diagnostics, and Management. The main content area is titled 'PPP Username and Password' and includes a descriptive 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.' Below this are input fields for 'PPP Username', 'PPP Password', and 'PPPoE Service Name', and a dropdown menu for 'Authentication Method' set to 'AUTO'. There is a 'MAC Clone' checkbox with a 'Clone MAC' button and a note '(eg XXXXXXXXXXXXX)'. The 'MTU' is set to '1460' with a note '(576-1492, default:1460)'. Several checkboxes are present: 'Enable Fullcone NAT', 'Dial on demand (with idle timeout timer)', 'PPP IP extension', 'Enable Firewall' (checked), 'Use Static IPv4 Address', 'Enable PPP Debug Mode', and 'Bridge PPPoE Frames Between WAN and Local Ports'. At the bottom, there is a 'Multicast Proxy' section with a checkbox for 'Enable IGMP Multicast Proxy'. 'Back' and 'Next' buttons are at the bottom right.

PPP Username/Password: For logging in to your ISP. If you cannot locate this information, ask your ISP to provide it.

PPPoE Service Name: Provided by your ISP. Only enter it if instructed by your ISP.

Authentication Method: Used by ISP to authenticate the client that attempts to connect. If you are not sure, consult your ISP or select **AUTO**.

MAC Clone: When you cannot access the Internet after finishing other settings here except this option, consider whether it's the matter of the MAC address of your computer. Clicking **Clone MAC** button copies the MAC address of your computer to the router.

MTU: Keep the default value unless you are sure it is necessary for your ISP connection.

Dial on demand: Connect to ISP only when there is traffic transmission. This saves your broadband Internet service bill.

PPP IP extension: If enabled, all the IP addresses in outgoing packets including management packets on the WAN port will be changed to the device's WAN IP address. Only change the default settings if necessary.

Enable PPP Debug Mode: Only enable this feature if supported by your ISP.

Bridge PPPoE Frames Between WAN and Local Ports: If enabled, PPPoE dialup frame from LAN side will directly egress the WAN port without modification.

Multicast Proxy: If enabled, the router will use multicast proxy.



KNOWLEDGE EXPANSION

- MAC Clone:** Many broadband ISPs restrict access by allowing traffic only from the MAC address of your broadband modem, but some ISPs additionally register the MAC address of your computer when your account is first opened. If so, only by cloning the MAC address of your computer can you access the Internet through the router.
- MTU:** Short for *Maximum Transmission Unit*, the largest physical packet size, measured in bytes, which

a network can transmit. Any messages larger than the MTU are divided into smaller packets before being sent. The default MTU is 1460 bytes. For some ISPs, you might need to change the MTU. This is rarely required, and should not be done unless you are sure it is necessary for your ISP connection.

Step 5: To configure the Default Gateway interface, select the interface that you want to configure with the WAN gateway address in **Available Routed WAN Interfaces** box and move it into **Selected Default Gateway Interfaces** box. The default setting is recommended. Then click **Next**.

Step 6: To configure the WAN DNS address, click the **Select DNS Server Interface from available WAN interfaces** option, or select the **Use the following Static DNS IP address** option and enter the static DNS server IP addresses provided by your ISP. At last, click **Next**.

Step 7: Here you can view your configurations. Click **Apply/Save** to save your settings if everything is correctly set.

WAN Setup - Summary

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

Connection Type:	PPPoE
NAT:	Enabled
Full Cone NAT:	Disabled
Firewall:	Enabled
IGMP Multicast:	Disabled
Quality Of Service:	Enabled

Click "Apply/Save" to have this interface to be effective. Click "Back" to make any modifications.

[Back](#) [Apply/Save](#)

When the PPPoE connection is successful, you can access the Internet.

Wide Area Network (WAN) Service Setup

Choose Add, Remove or Edit to configure a WAN service over a selected interface.

Interface	Description	Type	Vlan802.1p	VlanMuxId	Icmp	NAT	Firewall	IPv6	Mld	Remove	Edit
ppp0.1	pppoe_0_0_35	PPPoE	N/A	N/A	Disabled	Enabled	Enabled	Disabled	Disabled	<input type="checkbox"/>	Edit

[Add](#) [Remove](#)

IPv4 & IPv6 (Dual Stack)

Step 1: Click **Advanced Setup > WAN Service** and then click the **Add** button.

Step 2: Select the ATM interface you added just now from the pull-down menu in the figure below. Click **Next**.

WAN Service Interface Configuration

Select a layer 2 interface for this service

atm0/(0_0_35) ▼

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

Step 3: Select **PPP over Ethernet (PPPoE)**. Edit the **Enter Service Description** field which is optional. Suggest you keep the default. Select a network protocol: **IPv4&IPv6 (Dual Stack)**. Click **Next**.

Step 4: Configure PPP Username and Password and other settings on the figure below. Each field with its indication is mentioned above in **IPv4 Only (PPPoE)** section. Check **Launch Dhcp6c for Prefix Delegation (IAPD)**. Click **Next**.

If your ISP is using static DHCPv6, check **Launch Dhcp6c for Address Assignment (IANA)** also, or configure a static

IP address by checking **Use Static IPv6 Address** and enter the static IPv6 address.

Step 5: To configure the Default Gateway interface when using IPv6, select the interface that you want to configure with the WAN gateway address in **Selected WAN Interface** box. Then click **Next**.

Step 6: To configure the WAN DNS address, check the **Obtain IPv6 DNS info from a WAN interface** option, or select the **Use the following Static IPv6 DNS address** option to enter the static DNS server IPv6 addresses provided by your ISP. At last, click **Next**.



Step 7: Here you can view your configurations. Click **Apply/Save** to save your settings if everything is correctly set.

Device Info
Advanced Setup
 Layer2 Interface
WAN Service
 LAN
 NAT
 Security
 Parental Control
 Bandwidth Control
 Routing
 DNS
 DSL
 Storage Service
 Interface Grouping
 IP Tunnel

WAN Setup - Summary

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

Connection Type:	PPPoE
NAT:	Enabled
Full Cone NAT:	Disabled
Firewall:	Enabled
IGMP Multicast:	Disabled
Quality Of Service:	Enabled

Click "Apply/Save" to have this interface to be effective. Click "Back" to make any modifications.

[Back](#) [Apply/Save](#)



When the PPPoE connection is successful, you can access the Internet.

Device Info
Advanced Setup
 Layer2 Interface
WAN Service
 LAN
 NAT
 Security
 Parental Control
 Bandwidth Control
 Routing

Wide Area Network (WAN) Service Setup

Choose Add, Remove or Edit to configure a WAN service over a selected interface.

Interface	Description	Type	Vlan802.1p	VlanMuxId	Igmp	NAT	Firewall	IPv6	Mld	Remove	Edit
ppp0.1	pppoe_0_0_35	PPPoE	N/A	N/A	Disabled	Enabled	Enabled	Enabled	Disabled	<input type="checkbox"/>	Edit

[Add](#) [Remove](#)

IPv6 Only

Step 1: Click **Advanced Setup > WAN Service** and then click the **Add** button.

Device Info
Advanced Setup
 Layer2 Interface
 ATM Interface
 ETH Interface
WAN Service
 LAN
 NAT

Wide Area Network (WAN) Service Setup

Choose Add, Remove or Edit to configure a WAN service over a selected interface.

Interface	Description	Type	Vlan802.1p	VlanMuxId	Igmp	NAT	Firewall	IPv6	Mld	Remove	Edit
-----------	-------------	------	------------	-----------	------	-----	----------	------	-----	--------	------

[Add](#) [Remove](#)

Step 2: Select the ATM interface you added just now from the pull-down menu in the figure below. Click **Next**.

Device Info
Advanced Setup
 Layer2 Interface
 ATM Interface
 ETH Interface
WAN Service

WAN Service Interface Configuration

Select a layer 2 interface for this service

atm0/(0_0_35) ▼

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

Step 3: Select **PPP over Ethernet (PPPoE)**. Edit the **Enter Service Description** field which is optional. Suggest you keep the default. Select a network protocol you need: **IPv6 Only**. Click **Next**.

The screenshot shows the 'WAN Service Configuration' page in the Tenda web interface. On the left is a navigation menu with 'WAN Service' highlighted. The main content area includes:

- 'Select WAN service type:' with radio buttons for 'PPP over Ethernet (PPPoE)' (selected), 'IP over Ethernet', and 'Bridging'.
- 'Enter Service Description:' with a text input field containing 'pppoe_0_0_35'.
- Instructions: 'For tagged service, enter valid 802.1P Priority and 802.1Q VLAN ID. For untagged service, set -1 to both 802.1P Priority and 802.1Q VLAN ID.'
- 'Enter 802.1P Priority [0-7]:' with a dropdown menu set to '-1'.
- 'Enter 802.1Q VLAN ID [0-4094]:' with a dropdown menu set to '-1'.
- 'Network Protocol Selection:' with a dropdown menu set to 'IPv6 Only'.
- 'Back' and 'Next' buttons at the bottom right.

Step 4: Configure PPP Username and Password and other settings on the figure below. Each field with its indication is mentioned above in **IPv4 Only (PPPoE)** section.

If ISP provides you no static IPv6 address, you just keep the default settings for it's by default the DHCP mode. Check **Launch Dhcp6c for Prefix Delegation (IAPD)**. If your ISP is using stateful DHCPv6, check **Launch Dhcp6c for Address Assignment (IANA)** also. Click **Next**.

The screenshot shows the 'PPP Username and Password' configuration page. It includes:

- Fields for 'PPP Username', 'PPP Password', and 'PPPoE Service Name'.
- 'Authentication Method' dropdown set to 'AUTO'.
- 'MAC Clone' checkbox with a 'Clone MAC' button and a note '(eg XXXX:XXXX:XXXX:XX)'.
- 'MTU' field set to '1480' with a note '(576-1492 default:1460)'.
- Checkboxes for 'Enable Fullcone NAT', 'Dial on demand (with idle timeout timer)', 'PPP IP extension', 'Enable Firewall', 'Use Static IPv4 Address', 'Use Static IPv6 Address', 'Enable IPv6 Unnumbered Model', 'Launch Dhcp6c for Address Assignment (IANA)', 'Launch Dhcp6c for Prefix Delegation (IAPD)', 'Enable PPP Debug Mode', and 'Bridge PPPoE Frames Between WAN and Local Ports'.
- 'Multicast Proxy' section with checkboxes for 'Enable IGMP Multicast Proxy' and 'Enable MLD Multicast Proxy'.
- 'Back' and 'Next' buttons at the bottom right.

If ISP provides you with the static IPv6 address, configure a static IP address by checking **Use Static IPv6 Address** and enter the static IPv6 address.

Step 5: To configure the Default Gateway interface when using IPv6, select the interface that you want to configure with the WAN gateway address in **Selected WAN Interface** box. Then click **Next**.

Step 6: To configure the WAN DNS address, check the **Obtain IPv6 DNS info from a WAN interface** option, or select the **Use the following Static IPv6 DNS address** option to enter the static DNS server IPv6 addresses provided by your ISP. At last, click **Next**.



Step 7: Here you can view your configurations. Click **Apply/Save** to take this interface into effect.

Tenda

Device Info
Advanced Setup
Layer2 Interface
WAN Service
LAN
NAT
Security
Parental Control
Bandwidth Control
Routing
DNS
DSL
Storage Service
Interface Grouping
IP Tunnel

WAN Setup - Summary

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

Connection Type:	PPPoE
NAT:	Enabled
Full Cone NAT:	Disabled
Firewall:	Enabled
IGMP Multicast:	Disabled
Quality Of Service:	Enabled

Click "Apply/Save" to have this interface to be effective. Click "Back" to make any modifications:

[Back](#) [Apply/Save](#)



When the PPPoE connection is successful, you can access the Internet.

, Edit: [Edit](#). Below the table are 'Add' and 'Remove' buttons."/>

Tenda

Device Info
Advanced Setup
Layer2 Interface
WAN Service
LAN
NAT
Security
Parental Control
Bandwidth Control
Routing

Wide Area Network (WAN) Service Setup

Choose Add, Remove or Edit to configure a WAN service over a selected interface.

Interface	Description	Type	Vlan802.1p	VlanMuxId	Igmp	NAT	Firewall	IPv6	Mld	Remove	Edit
ppp0.1	pppoe_0_0_35	PPPoE	N/A	N/A	Disabled	Disabled	Enabled	Enabled	Disabled	<input type="checkbox"/>	Edit

[Add](#) [Remove](#)

IPoE

IPv4 Only

If you get an IP address from your ISP automatically or if your ISP assigns you a static (fixed) IP address, subnet mask and gateway, you need to select the IP over Ethernet (IPoE).

Step 1: Click **Advanced Setup > WAN Service** and then click the **Add** button.

Tenda

Device Info
Advanced Setup
Layer2 Interface
WAN Service
LAN
NAT
Security

Wide Area Network (WAN) Service Setup

Choose Add, Remove or Edit to configure a WAN service over a selected interface.

Interface	Description	Type	Vlan802.1p	VlanMuxId	Igmp	NAT	Firewall	IPv6	Mld	Remove	Edit
ppp0.1	pppoe_0_0_35	PPPoE	N/A	N/A	Disabled	Disabled	Enabled	Enabled	Disabled	<input type="checkbox"/>	Edit

[Add](#) [Remove](#)

Step 2: Select the ATM interface you added just now from the pull-down menu in the figure below. Click **Next**.

Tenda

WAN Service Interface Configuration

Select a layer 2 interface for this service

atrn0/(0_0_35)

Back Next

Step 3: Select **IP over Ethernet**. Edit the **Enter Service Description** which is optional. Suggest you keep the default.

Select a network protocol: **IPv4 Only**. Click **Next**.

Tenda

WAN Service Configuration

Select WAN service type:

PPP over Ethernet (PPPoE)

IP over Ethernet

Bridging

Enter Service Description: ipoe_0_0_35

For tagged service, enter valid 802.1P Priority and 802.1Q VLAN ID.
For untagged service, set -1 to both 802.1P Priority and 802.1Q VLAN ID.

Enter 802.1P Priority [0-7]: -1

Enter 802.1Q VLAN ID [0-4094]: -1

Network Protocol Selection:
IPv4 Only

Back Next

Step 4: Finish **WAN IP Settings** on the figure below. Click **Next**.

Tenda

WAN IP Settings

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

Notice: If "Obtain an IP address automatically" is chosen, DHCP will be enabled for PVC in IPoE mode.
If "Use the following Static IP address" is chosen, enter the WAN IP address, subnet mask and interface gateway

MTU: 1500 (576-1500,default:1500)

Obtain an IP address automatically

Option 60 Vendor ID:

Option 61 IAID: (8 hexadecimal digits)

Option 61 DUID: (hexadecimal digit)

Option 125: Disable Enable

Use the following Static IP address:

WAN IP Address:

WAN Subnet Mask:

WAN gateway IP Address:

Back Next

Obtain an IP address automatically: This allows the router to automatically acquire IP information from your ISP or your existing networking equipment.

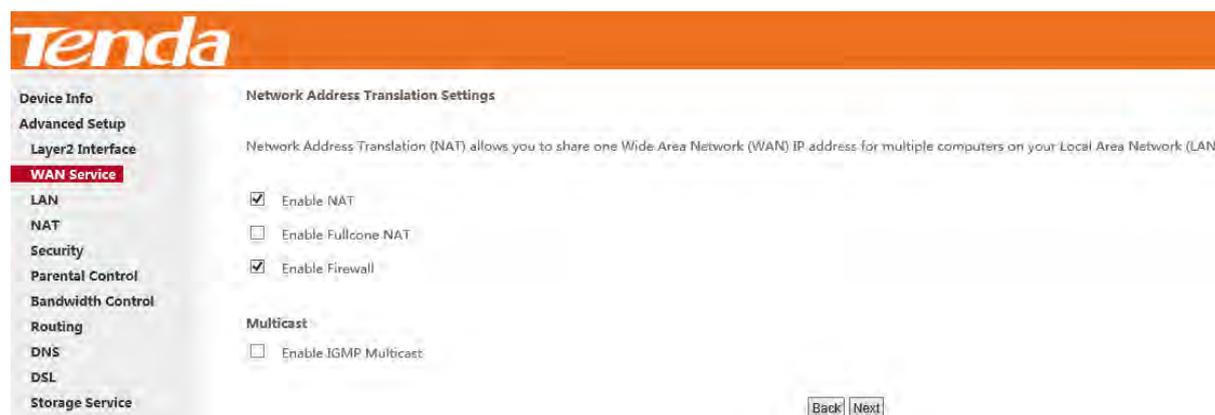
Use the following Static IP address: This allows you to specify the Static IP information provided by your ISP or that corresponds with your existing networking equipment.

WAN IP Address: The Internet IP address provided by your ISP for accessing the Internet.

WAN Subnet Mask: The subnet mask address provided by your ISP for accessing the Internet.

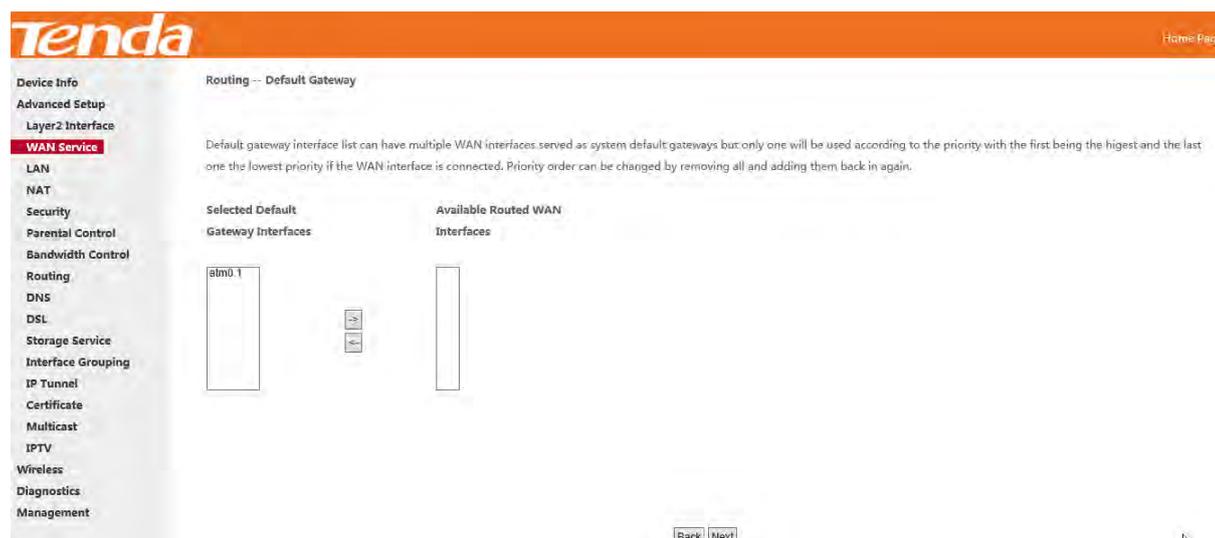
WAN gateway IP Address: The gateway IP address provided by your ISP for accessing the Internet.

Step 5: Finish Network Address Translation Settings. Suggest keep the default settings. Click **Next**.



Step 6: To configure the Default Gateway interface, select the interface that you want to configure with the WAN gateway address in **Available Routed WAN Interfaces** box and move it into **Selected Default Gateway Interfaces** box.

The default setting is recommended. Then click **Next**.



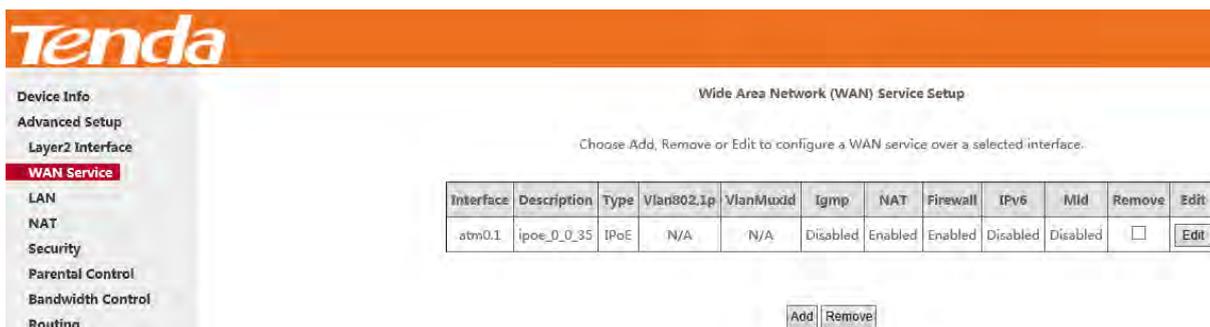
Step 7: To finish DNS Server Configuration, click the **Select DNS Server Interface from available WAN interfaces** option, or select the **Use the following Static DNS IP address** option and enter the static DNS server IP addresses provided by your ISP. At last, click **Next**.



Step 8: Here you can view your configurations. Click **Apply/Save** to save your settings if everything is correctly set.



When the IPoE connection is successful, you can access the Internet.



IPv4 & IPv6 (Dual Stack)

Step 1: Click **Advanced Setup > WAN Service** and then click the **Add** button.

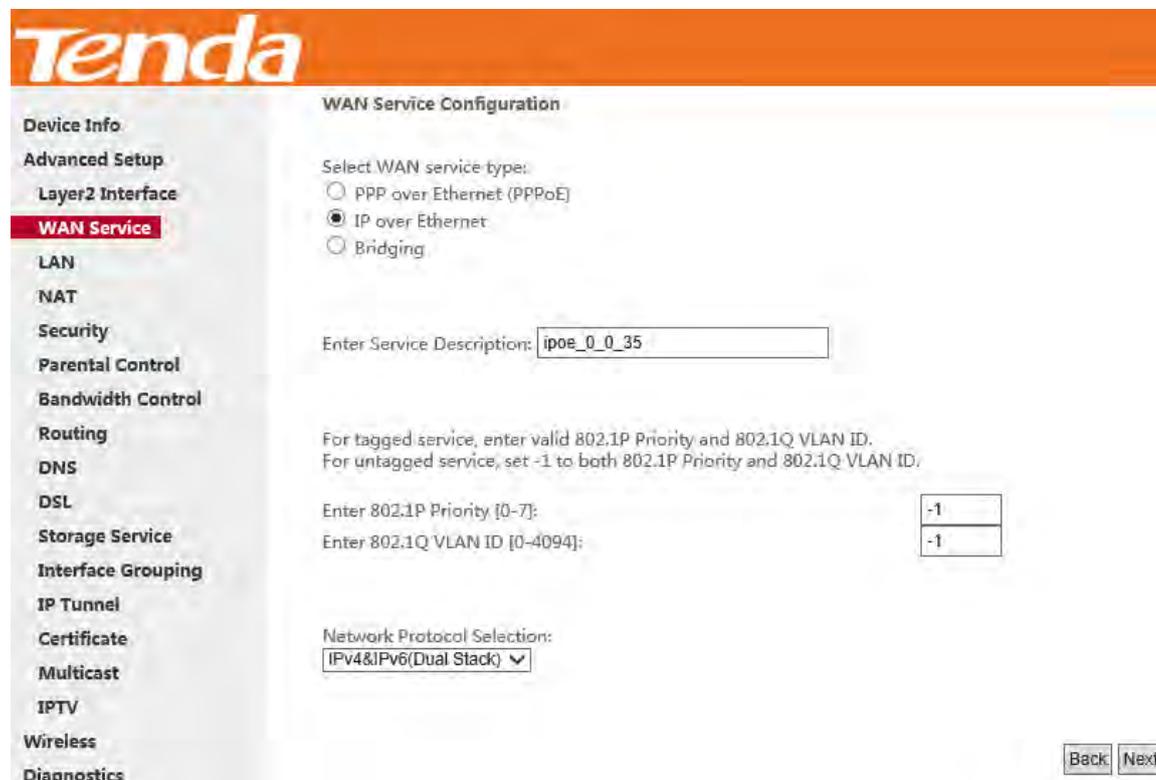


Step 2: Select the ATM interface you added just now from the pull-down menu in the figure below. Click **Next**.



Step 3: Select **IP over Ethernet**. Edit the **Enter Service Description** which is optional. Suggest you keep the default.

Select a network protocol: **IPv4&IPv6 (Dual Stack)**. Click **Next**.



Step 4: To finish WAN IP Settings, select **Obtain an IPv6 address automatically**, check **Dhcpv6 Prefix Delegation (IAPD)**. If your ISP is using stateful DHCPv6, check **Dhcpv6 Address Assignment (IANA)** also. Or select **Use the following Static IP address** if your ISP provides you with an IPv6 address. Click **Next**.

Tenda

Device Info

Advanced Setup

Layer2 Interface

WAN Service

LAN

NAT

Security

Parental Control

Bandwidth Control

Routing

DNS

DSL

Storage Service

Interface Grouping

IP Tunnel

Certificate

Multicast

IPTV

Wireless

Diagnostics

Management

WAN IP Settings

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

Notice: If "Obtain an IP address automatically" is chosen, DHCP will be enabled for PVC in IPoE mode.

If "Use the following Static IP address" is chosen, enter the WAN IP address, subnet mask and interface gateway.

MTU: (576-1500, default:1500)

Obtain an IP address automatically.

Option 60 Vendor ID:

Option 61 IAID: (8 hexadecimal digit)

Option 61 DUID: (hexadecimal digit)

Option 125: Disable Enable

Use the following Static IP address:

WAN IP Address:

WAN Subnet Mask:

WAN gateway IP Address:

WAN IPv6 Settings

Enter information provided to you by your ISP to configure the WAN IPv6 settings.

Notice:

If "Obtain an IPv6 address automatically" is chosen, DHCPv6 Client will be enabled on this WAN interface.

If "Use the following Static IPv6 address" is chosen, enter the static WAN IPv6 address. If the address prefix length is not specified, it will be default /64.

Obtain an IPv6 address automatically.

Dhcpv6 Address Assignment (IANA)

Dhcpv6 Prefix Delegation (IAPD)

Use the following Static IPv6 address:

WAN IPv6 Address/Prefix Length:

Specify the Next-Hop IPv6 address for this WAN interface.

Notice: This address can be either a link local or a global unicast IPv6 address.

WAN Next-Hop IPv6 Address:

If ISP provides you with the static IPv6 address, configure a static IP address by checking **Use the following Static IPv6 address** and enter the static IPv6 address.

- Obtain an IPv6 address automatically
- Dhcpv6 Address Assignment (IANA)
- Dhcpv6 Prefix Delegation (IAPD)
- Use the following Static IPv6 address:

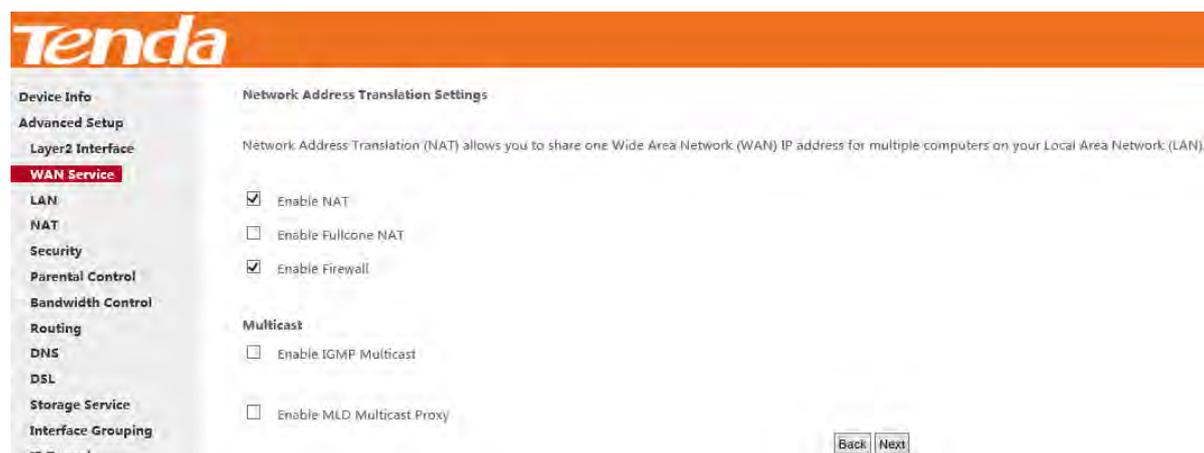
WAN IPv6 Address/Prefix Length:

Specify the Next-Hop IPv6 address for this WAN interface.

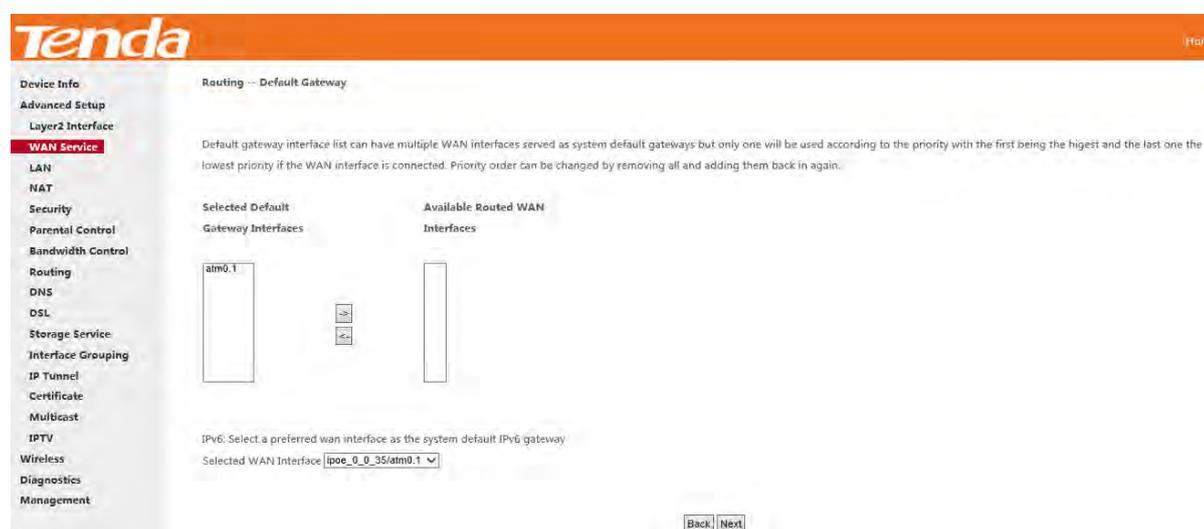
Notice: This address can be either a link local or a global unicast IPv6 address.

WAN Next-Hop IPv6 Address:

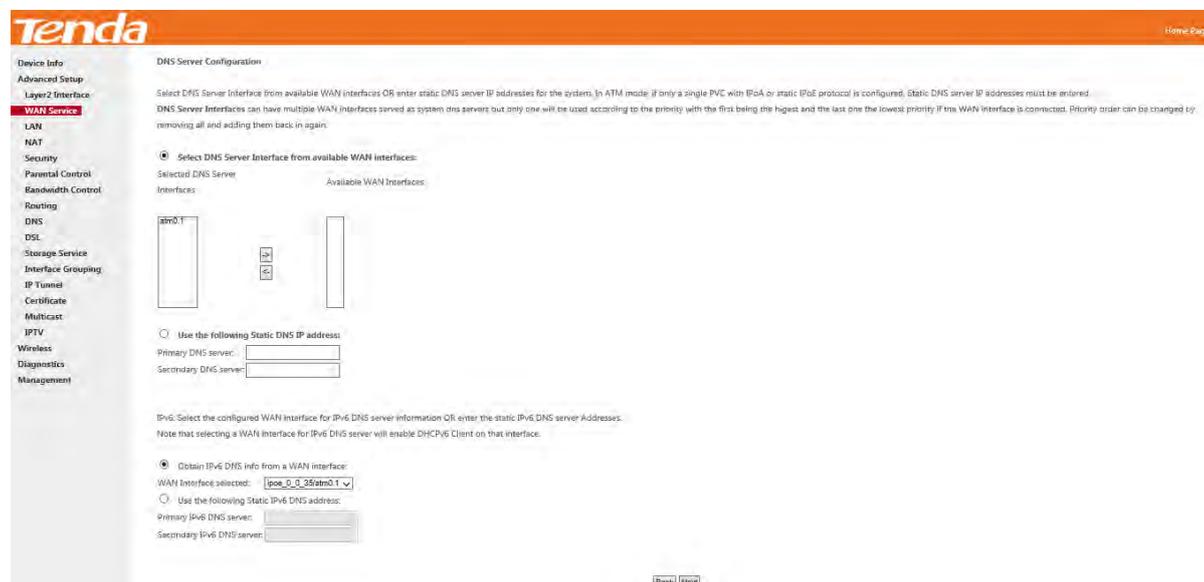
Step 5: Configure NAT settings. If you are unsure about the options, please keep the default settings and then click **Next**.



Step 6: To configure the Default Gateway interface, select the interface that you want to configure with the WAN gateway address in **Available Routed WAN Interfaces** box and move it into **Selected Default Gateway Interfaces** box. Then click **Next**.



Step 7: To configure the WAN DNS address, check the **Obtain IPv6 DNS info from a WAN interface** option, or select the **Use the following Static IPv6 DNS address** option to enter the static DNS server IPv6 addresses provided by your ISP. At last, click **Next**.



Step 8: Here you can view your configurations. Click **Apply/Save** to save your settings if everything is correctly set.

Tenda

Device Info
Advanced Setup
Layer2 Interface
WAN Service
LAN
NAT
Security
Parental Control
Bandwidth Control
Routing
DNS
DSL
Storage Service
Interface Grouping
IP Tunnel

WAN Setup - Summary

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

Connection Type:	IPoE
NAT:	Enabled
Full Cone NAT:	Disabled
Firewall:	Enabled
IGMP Multicast:	Disabled
Quality Of Service:	Enabled

Click "Apply/Save" to have this interface to be effective. Click "Back" to make any modifications.

[Back](#) [Apply/Save](#)

When the IPoE connection is successful, you can access the Internet.

Tenda

Device Info
Advanced Setup
Layer2 Interface
WAN Service
LAN
NAT
Security
Parental Control
Bandwidth Control
Routing

Wide Area Network (WAN) Service Setup

Choose Add, Remove or Edit to configure a WAN service over a selected interface.

Interface	Description	Type	VlanID	VlanMuxId	Igmp	NAT	Firewall	IPv6	Mld	Remove	Edit
atm0.1	ipoe_0_0_35	IPoE	N/A	N/A	Disabled	Enabled	Enabled	Enabled	Disabled	<input type="checkbox"/>	Edit

[Add](#) [Remove](#)

IPv6 Only

Step 1: Click **Advanced Setup > WAN Service** and then click the **Add** button.

Tenda

Device Info
Advanced Setup
Layer2 Interface
WAN Service
LAN
NAT
Security
Parental Control

Wide Area Network (WAN) Service Setup

Choose Add, Remove or Edit to configure a WAN service over a selected interface.

Interface	Description	Type	VlanID	VlanMuxId	Igmp	NAT	Firewall	IPv6	Mld	Remove	Edit
-----------	-------------	------	--------	-----------	------	-----	----------	------	-----	--------	------

[Add](#) [Remove](#)

Step 2: Select the ATM interface you added just now from the pull-down menu in the figure below. Click **Next**.

Tenda

Device Info
Advanced Setup
Layer2 Interface
WAN Service
LAN
NAT
Security

WAN Service Interface Configuration

Select a layer 2 interface for this service

atm0/(0_0_35) ▼

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

Step 3: Select **IP over Ethernet (IPoE)**. Edit the **Enter Service Description** field which is optional. Suggest you keep the default. Select a network protocol you need: **IPv6 Only**. Click **Next**.

Step 4: Enter the WAN information provided by your ISP to configure the WAN IPv6 settings.

To obtain an IP address automatically:

Select **Obtain an IPv6 address automatically**.

Check **Dhcp6c Prefix Delegation (IAPD)**.

If your ISP is using stateful DHCPv6, check **Dhcp6c Address Assignment (IANA)** also.

Click **Next** to go forwards.

Step 5: Finish Network Address Translation Settings. Suggest keep the default settings. Click **Next**.

Step 6: To configure the Default Gateway interface when using IPv6, select the interface that you want to configure with the WAN gateway address in **Selected WAN Interface** box. Then click **Next**.

Step 7: To configure the WAN DNS address, check the **Obtain IPv6 DNS info from a WAN interface** option, or select the **Use the following Static IPv6 DNS address** option to enter the static DNS server IPv6 addresses provided by your ISP. At last, click **Next**.

Step 8: Here you can view your configurations. Click **Apply/Save** to have this interface to be effective.

WAN Setup - Summary

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

Connection Type:	IPoE
NAT:	Disabled
Full Cone NAT:	Disabled
Firewall:	Enabled
IGMP Multicast:	Disabled
Quality Of Service:	Enabled

Click "Apply/Save" to have this interface to be effective. Click "Back" to make any modifications.

[Back](#) [Apply/Save](#)

When the IPoE connection is successful, you can access the Internet.

Wide Area Network (WAN) Service Setup

Choose Add, Remove or Edit to configure a WAN service over a selected interface.

Interface	Description	Type	Vlan802.1p	VlanMuxId	Igmp	NAT	Firewall	IPv6	Mld	Remove	Edit
atm0.1	ipoe_0_0_35	IPoE	N/A	N/A	Disabled	Enabled	Enabled	Enabled	Disabled	<input type="checkbox"/>	Edit

[Add](#) [Remove](#)

Bridge

If you wish to initiate a dialup directly from your PC for Internet access or enjoy the entire Internet connection (instead of sharing it with others), you can use the Bridging DSL link type and create a dialup program on your PC.

Step 1: Click **Advanced Setup > WAN Service** and then click the **Add** button.

Wide Area Network (WAN) Service Setup

Choose Add, Remove or Edit to configure a WAN service over a selected interface.

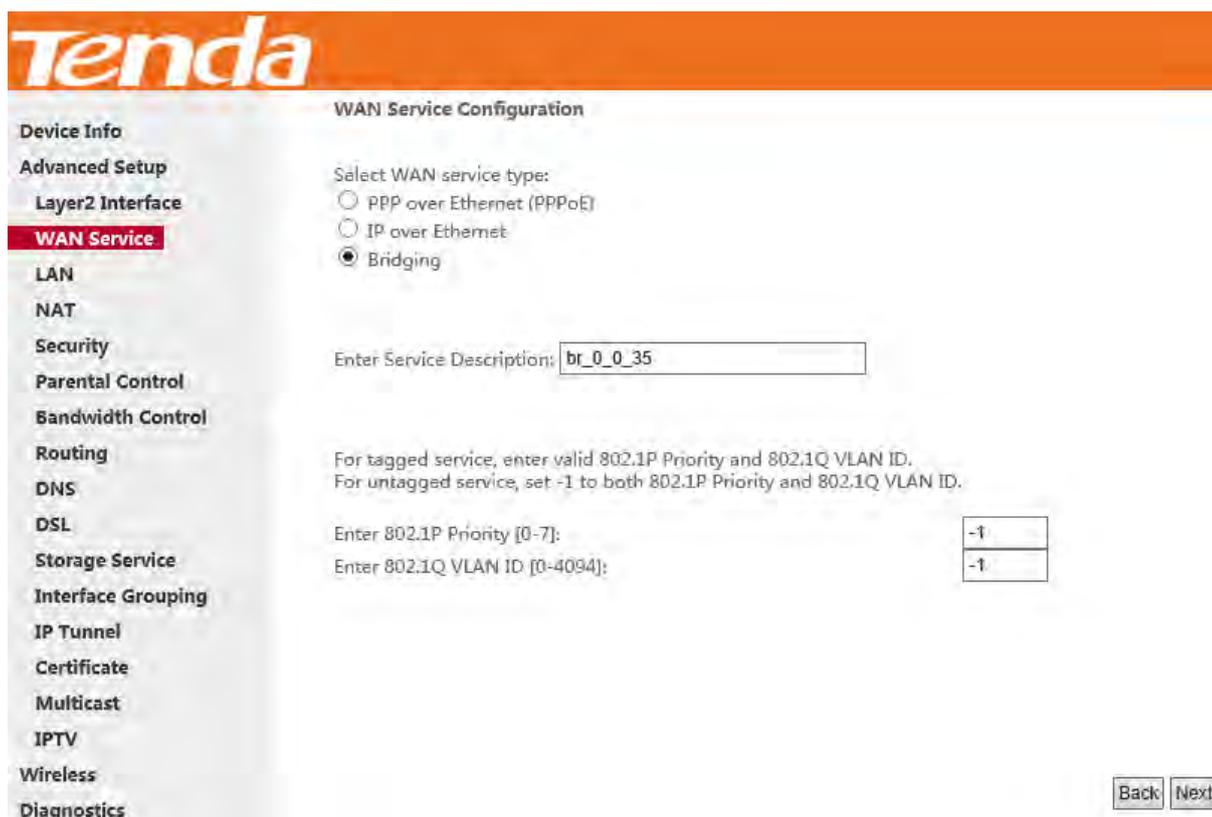
Interface	Description	Type	Vlan802.1p	VlanMuxId	Igmp	NAT	Firewall	IPv6	Mld	Remove	Edit
-----------	-------------	------	------------	-----------	------	-----	----------	------	-----	--------	------

[Add](#) [Remove](#)

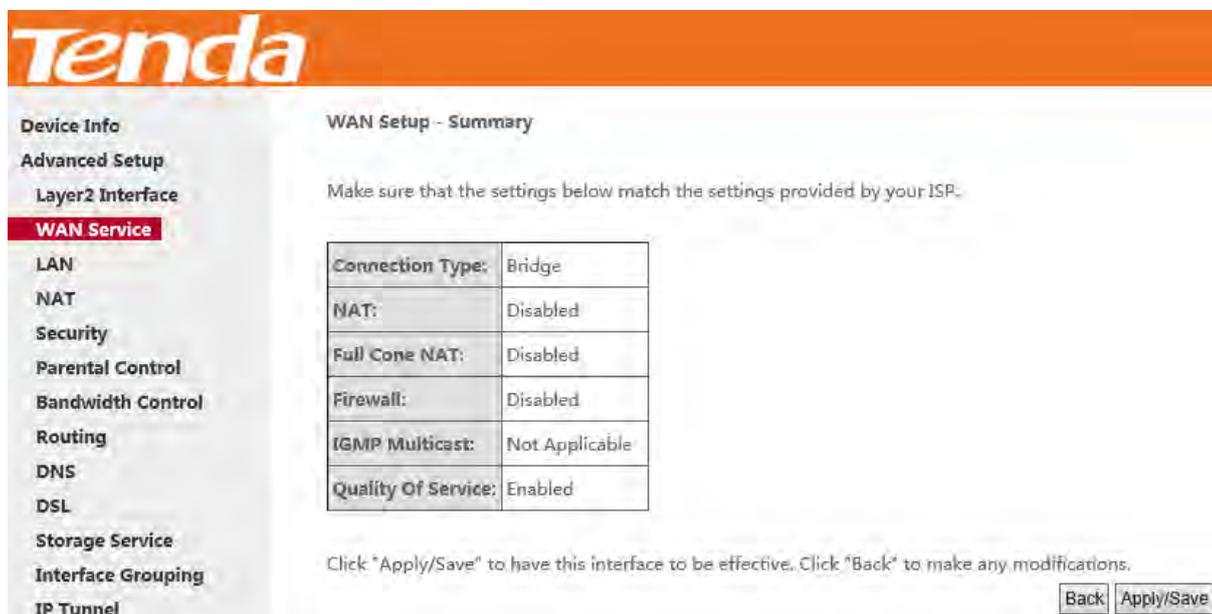
Step 2: Select the ATM interface you added just now from the pull-down menu in the figure below. Click **Next**.



Step 3: Select **Bridging**. Edit the **Enter Service Description** which is optional. Suggest you keep the default. Click **Next**.



Step 4: Here you can view your configurations. Click **Apply/Save** to activate your settings..



After the bridging connection is successful, initiate a dialup directly from your PC for Internet access.



NOTE

To configure multiple WAN connections, simply configure multiple ATM interfaces and then follow the instructions above.

▪ PPPoA

If you have selected the **PPPoA** from the **ATM Interface** screen in **Layer2 Interface**, you will see the screen below when you click the **WAN Service** tab, select the configured interface and click **Next**.

IPv4 Only

Step 1: Click **Advanced Setup > WAN Service** and then click the **Add** button.



Step 2: Select the ATM interface you added just now from the pull-down menu in the figure below. Click **Next**.



Step 3: Edit the **Enter Service Description**. This field is optional. We recommend that you keep the default.

Select a network protocol: **IPv4 Only** and click **Next**.

Tenda

WAN Service Configuration

Device Info

Advanced Setup

Layer2 Interface

ATM Interface

ETH Interface

WAN Service

LAN

NAT

Security

Parental Control

Bandwidth Control

Enter Service Description:

Network Protocol Selection:

Step 4: Enter PPP username and its password provided by your ISP. Click **Next**.

Tenda

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:

Enable Fullcone NAT

Dial on demand (with idle timeout timer)

Enable Firewall

Use Static IPv4 Address

Enable PPP Debug Mode

Multicast Proxy

Enable IGMP Multicast Proxy

PPP Username: This is for logging in to your ISP. If you cannot locate this information, ask your ISP to provide it.

PPP Password: This is for logging in to your ISP. If you cannot locate this information, ask your ISP to provide it.

Authentication Method: This is used by ISP to authenticate the client that attempts to connect. If you are not sure, consult your ISP or select **AUTO**.

Dial on demand: Connect to ISP only when there is traffic transmission. This saves your broadband Internet service bill.

Enable PPP Debug Mode: Only enable this feature if supported by your ISP.

Multicast Proxy: If enabled, the router will use multicast proxy.

If you are not sure about the options on this screen, simply enter your ISP user name and password and leave the other options unchanged from defaults. Click **Next** to enter the following screen.

Step 5: To configure the WAN gateway address. After you configure it click **Next**. The default setting is recommended.

Step 6: To configure the WAN DNS address. Choose a way to get DNS server according to what your ISP has provided.

-Click the Select DNS Server Interface from available WAN interfaces option.

-Select the **Use the following Static DNS IP address** option and enter static DNS server IP addresses for the system.

And then click **Next**.

NOTE

1. In ATM mode, if only a single PVC with IPoA or static IPoE protocol is configured, Static DNS server IP addresses must be entered.

2. If you cannot locate the static DNS server IP information, ask your ISP to provide it.

Step 7: Here you can view your configurations. Click **Apply/Save** to have this interface to be effective.

WAN Setup - Summary

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

Connection Type:	PPPoA
NAT:	Enabled
Full Cone NAT:	Disabled
Firewall:	Enabled
IGMP Multicast:	Disabled
Quality Of Service:	Enabled

Click "Apply/Save" to have this interface to be effective. Click "Back" to make any modifications.

[Back](#) [Apply/Save](#)

Step 8: When the PPPoA connection is successful, you can access the Internet.

, Edit: [Edit](#). At the bottom, there are 'Add' and 'Remove' buttons."/>

Wide Area Network (WAN) Service Setup

Choose Add, Remove or Edit to configure a WAN service over a selected interface.

Interface	Description	Type	Vlan802.1p	VlanMuxId	Igmp	NAT	Firewall	IPv6	Mld	Remove	Edit
pppoa0	pppoa_0_0_35	PPPoA	N/A	N/A	Disabled	Enabled	Enabled	Disabled	Disabled	<input type="checkbox"/>	Edit

[Add](#) [Remove](#)

IPv4 & IPv6 (Dual Stack)

Step 1: Click **Advanced Setup > WAN Service** and then click the **Add** button.

, Edit: [Edit](#). At the bottom, there are 'Add' and 'Remove' buttons."/>

Wide Area Network (WAN) Service Setup

Choose Add, Remove or Edit to configure a WAN service over a selected interface.

Interface	Description	Type	Vlan802.1p	VlanMuxId	Igmp	NAT	Firewall	IPv6	Mld	Remove	Edit
pppoa0	pppoa_0_0_35	PPPoA	N/A	N/A	Disabled	Enabled	Enabled	Disabled	Disabled	<input type="checkbox"/>	Edit

[Add](#) [Remove](#)

Step 2: Select the ATM interface you added just now from the pull-down menu in the figure below. Click **Next**.

WAN Service Interface Configuration

Select a layer 1 interface for this service

atm0/(0_0_35) ▼

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

Step 3: Edit the **Enter Service Description**. This field is optional. We recommend that you keep the default.

Select a network protocol: **IPv4 & IPv6 (Dual Stack)**. Click **Next**.

Tenda

WAN Service Configuration

Device Info

Advanced Setup

Layer2 Interface

ATM Interface

ETH Interface

WAN Service

LAN

NAT

Security

Parental Control

Bandwidth Control

Enter Service Description:

Network Protocol Selection:

Step 4: Enter PPP username and its password provided by your ISP. Click **Next**.

Tenda

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:

Enable Fullcone NAT

Dial on demand (with idle timeout timer)

Enable Firewall

Use Static IPv4 Address

Use Static IPv6 Address

Enable IPv6 Unnumbered Model

Launch Dhcp6c for Address Assignment (IANA)

Launch Dhcp6c for Prefix Delegation (IAPD)

Enable PPP Debug Mode

Multicast Proxy

Enable IGMP Multicast Proxy

Enable MLD Multicast Proxy

Step 5: To configure the WAN gateway address. After you configure it click **Next**. The default setting is recommended.

Tenda

Routing -- Default Gateway

Default gateway interface list can have multiple WAN interfaces served as system default gateways but only one will be used according to the priority with the first being the highest and the last one the lowest priority if the WAN interface is connected. Priority order can be changed by removing all and adding them back in again.

Selected Default Gateway Interfaces

Available Routed WAN Interfaces

ppp0a0

IPv6: Select a preferred wan interface as the system default IPv6 gateway.

Selected WAN Interface:

NOTE

Default gateway interface list can have multiple WAN interfaces served as system default gateways but only one will be used according to the priority with the first being the highest and the last one the lowest priority if the WAN interface is connected. Priority order can be changed by removing all and adding them back in again.

Step 6: To configure the WAN DNS address

Select DNS Server Interface from available WAN interfaces OR enter static DNS server IP addresses for the system. And then click **Next**.

NOTE

1. DNS Server Interfaces can have multiple WAN interfaces served as system DNS servers but only one will be used according to the priority with the first being the highest and the last one the lowest priority if the WAN interface is connected. Priority order can be changed by removing all and adding them back in again.
2. In ATM mode, if only a single PVC with IPoA or static IPoE protocol is configured, Static DNS server IP addresses must be entered.
3. If you cannot locate the static DNS server IP information, ask your ISP to provide it.

Step 7: Here you can view your configurations. Click **Apply/Save** to save your settings if everything is correctly set.

WAN Setup - Summary

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

Connection Type:	PPPoA
NAT:	Enabled
Full Cone NAT:	Disabled
Firewall:	Enabled
IGMP Multicast:	Disabled
Quality Of Service:	Enabled

Click "Apply/Save" to have this interface to be effective. Click "Back" to make any modifications:

[Back](#) [Apply/Save](#)

Step 8: When the PPPoA connection is successful, you can access the Internet.

, Edit: [Edit](#). Below the table are 'Add' and 'Remove' buttons."/>

Wide Area Network (WAN) Service Setup

Choose Add, Remove or Edit to configure a WAN service over a selected interface.

Interface	Description	Type	Vlan802.1p	VlanMuxdd	Igmp	NAT	Firewall	IPv6	Mld	Remove	Edit
pppoa0	pppoa_0_0_35	PPPoA	N/A	N/A	Disabled	Enabled	Enabled	Enabled	Disabled	<input type="checkbox"/>	Edit

[Add](#) [Remove](#)

IPv6 Only

Step 1: Click **Advanced Setup > WAN Service** and then click the **Add** button.

Wide Area Network (WAN) Service Setup

Choose Add, Remove or Edit to configure a WAN service over a selected interface:

Interface	Description	Type	Vlan802.1p	VlanMuxdd	Igmp	NAT	Firewall	IPv6	Mld	Remove	Edit
pppoa0	pppoa_0_0_35	PPPoA	N/A	N/A	Disabled	Enabled	Enabled	Enabled	Disabled	<input type="checkbox"/>	Edit

[Add](#) [Remove](#)

Step 2: Select the ATM interface you added just now from the pull-down menu in the figure below. Click **Next**.

WAN Service Interface Configuration

Select a layer 2 interface for this service

atm0/(0_0_35) ▼

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

Step 3: Edit the **Enter Service Description**. This field is optional. We recommend that you keep the default.

Select a network protocol: **IPv6 Only**. Click **Next**.

Tenda

Device Info

Advanced Setup

Layer2 Interface

ATM Interface

ETH Interface

WAN Service

LAN

NAT

Security

Parental Control

Bandwidth Control

WAN Service Configuration

Enter Service Description:

Network Protocol Selection:

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

Step 4: Enter PPP username and its password provided by your ISP. Click **Next**.

Tenda

Device Info

Advanced Setup

Layer2 Interface

ATM Interface

ETH Interface

WAN Service

LAN

NAT

Security

Parental Control

Bandwidth Control

Routing

DNS

DSL

Storage Service

Interface Grouping

IP Tunnel

Certificate

Multicast

IPTV

Wireless

Diagnostics

Management

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:

Enable Fullcone NAT

Dial on demand (with idle timeout timer)

Enable Firewall

Use Static IPv4 Address

Use Static IPv6 Address

Enable IPv6 Unnumbered Model

Launch Dhcp6c for Address Assignment (IANA)

Launch Dhcp6c for Prefix Delegation (IAPD)

Enable PPP Debug Mode

Multicast Proxy

Enable IGMP Multicast Proxy

Enable MLD Multicast Proxy

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

Step 5: Select a preferred wan interface as the system default IPv6 gateway. Click **Next**.

Tenda [Home](#)

Device Info

Advanced Setup

Layer2 Interface

ATM Interface

ETH Interface

WAN Service

LAN

NAT

Security

Parental Control

Bandwidth Control

Routing

DNS

DSL

Storage Service

Interface Grouping

IP Tunnel

Certificate

Multicast

IPTV

Wireless

Diagnostics

Routing -- Default Gateway

Default gateway interface list can have multiple WAN interfaces served as system default gateways but only one will be used according to the priority with the first being the highest and the last one the lowest priority if the WAN interface is connected. Priority order can be changed by removing all and adding them back in again.

Selected Default Gateway Interfaces

ppp0a0

Available Routed WAN Interfaces

IPv6: Select a preferred wan interface as the system default IPv6 gateway.

Selected WAN Interface:

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

Step 6: To configure the WAN DNS address, select the configured WAN interface for IPv6 DNS server information or enter the static IPv6 DNS server addresses. And then click **Next**.

NOTE

Selecting a WAN interface for IPv6 DNS server will enable DHCPv6 Client on that interface.

Step 7: Here you can view your configurations. Click **Apply/Save** to save your settings if everything is correctly set.

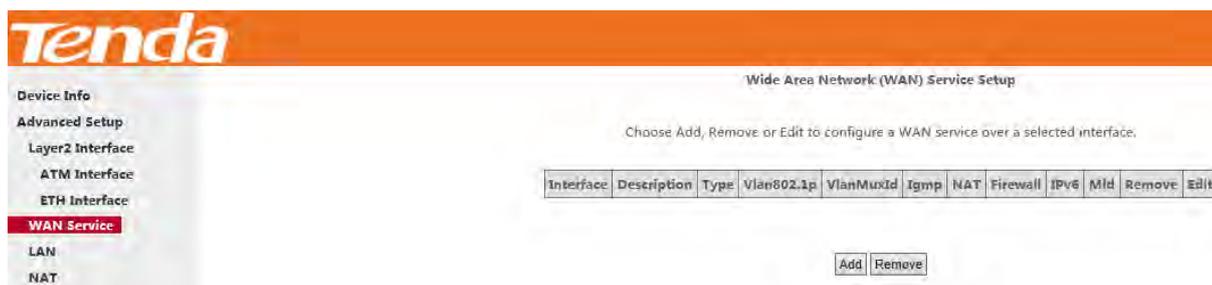
Connection Type:	PPPoA
NAT:	Enabled
Full Cone NAT:	Disabled
Firewall:	Enabled
IGMP Multicast:	Disabled
Quality Of Service:	Enabled

Step 8: When the PPPoA connection is successful, you can access the Internet.

Interface	Description	Type	Vlan802.1p	VlanMaxId	Igmp	NAT	Firewall	IPv6	Mld	Remove	Edit
pppoe0	pppoe_0_0_35	PPPoA	N/A	N/A	Disabled	Disabled	Enabled	Enabled	Disabled	<input type="checkbox"/>	Edit

- IPoA

Step 1: Click **Advanced Setup** > **WAN Service** and then click the **Add** button.



Step 2: Select the ATM interface you added just now from the pull-down menu in the figure below. Click **Next**.



Step 3: Edit the Enter Service Description. This field is optional. It is recommended that you keep the default. Click **Next**.



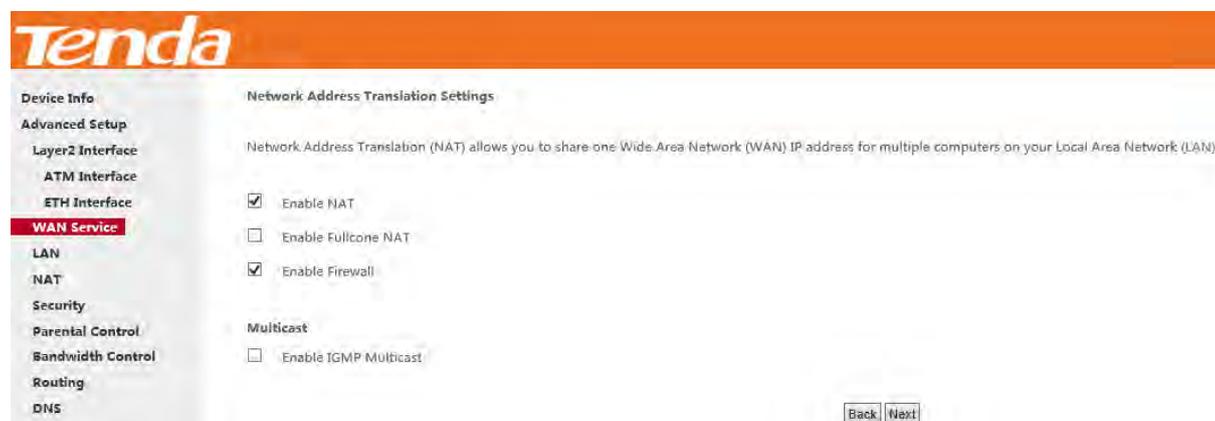
Step 4: Enter the WAN IP address and subnet mask which should have been provided to you by your ISP. If you cannot locate this information, ask your ISP to provide it. And then click **Next**.



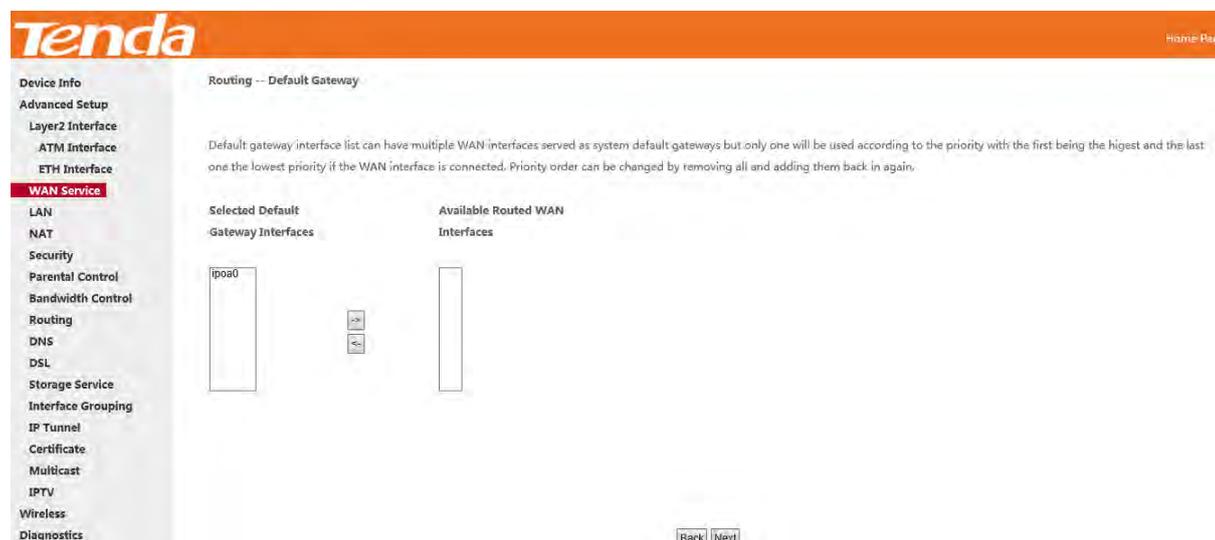
WAN IP Address: The Internet IP address provided by your ISP for accessing the Internet.

WAN Subnet Mask: The subnet mask address provided by your ISP for accessing the Internet.

Step 5: Keep the defaults if you are unsure about the options on the screen below and click **Next**.



Step 6: To configure the WAN gateway address. After you configure it click **Next**. The default setting is recommended.



NOTE

Default gateway interface list can have multiple WAN interfaces served as system default gateways but only one will be used according to the priority with the first being the highest and the last one the lowest priority if the WAN interface is connected. Priority order can be changed by removing all and adding them back in again.

Step 7: Configure the WAN DNS Server configuration according to your ISP.

-Click the **Select DNS Server Interface** from available WAN interfaces option;

-Or select the **Use the following Static DNS IP address** option and enter static DNS server IP addresses for the system.

And then click **Next**.

Step 8: Here you can view your configurations. Click **Apply/Save** to save your settings if everything is correctly set.

Connection Type:	IPoA
NAT:	Enabled
Full Cone NAT:	Disabled
Firewall:	Enabled
IGMP Multicast:	Disabled
Quality Of Service:	Enabled

Step 9: IPoA WAN service setup parameter is shown as below.

Interface	Description	Type	Vlan802.1p	VlanMuxId	Igmp	NAT	Firewall	IPv6	Mld	Remove	Edit
ipoa0	ipoa_0_0_35	IPoA	N/A	N/A	Disabled	Enabled	Enabled	Disabled	Disabled	<input type="checkbox"/>	Edit

To Set up WAN Service for ETH Interface

Three Internet connections: PPP over Ethernet (PPPoE), IP over Ethernet (IPoE) and Bridging are available in the Ethernet uplink mode.

If you selected and configured the **ETH Interface** (Ethernet uplink), follow steps below to configure the WAN service:

▪ PPP over Ethernet (PPPoE)

IPv4

Step 1: Click **Advanced Setup > WAN Service** and then click the **Add** button.



Step 2: Select the ETH interface you added just now from the pull-down menu in the figure below. Click **Next**.



Step 3: Select **PPP over Ethernet**. Edit the **Enter Service Description**. This field is optional. It is recommended that you keep the default. Select a network protocol: **IPv4 Only**. And click **Next**.



Step 4: Enter the PPP username and password provided by your ISP. If you are not sure about other options, just leave them unchanged from defaults. And click **Next**.

PPP Username: This is for logging in to your ISP. If you cannot locate this information, ask your ISP to provide it.

PPP Password: This is for logging in to your ISP. If you cannot locate this information, ask your ISP to provide it.

PPPoE Service Name: This information is provided by your ISP. Only enter it if instructed by your ISP.

Authentication Method: This is used by ISP to authenticate the client that attempts to connect. If you are not sure, consult your ISP or select **Auto**.

MAC Clone: Clicking **Clone MAC** button copies the MAC address of your PC to the router. Many broadband ISPs restrict access by allowing traffic only from the MAC address of your broadband modem, but some ISPs additionally register the MAC address of the network interface card in your computer when your account is first opened. They then accept traffic only from the MAC address of that computer. If so, configure your router to “clone” the MAC address from the authorized computer.

MTU: Short for *Maximum Transmission Unit*, the largest physical packet size, measured in bytes, which a network can transmit. Any messages larger than the MTU are divided into smaller packets before being sent. The default MTU is 1460 bytes. For some ISPs, you might need to change the MTU. This is rarely required, and should not be done unless you are sure it is necessary for your ISP connection.

Dial on demand: Connect to ISP only when there is traffic transmission. This saves your broadband Internet service bill.

PPP IP extension: If enabled, all the IP addresses in outgoing packets including management packets on the WAN port will be changed to the device's WAN IP address. Only change the default settings if necessary.

Enable PPP Debug Mode: Only enable this feature if supported by your ISP.

Bridge PPPoE Frames Between WAN and Local Ports: If enabled, PPPoE dialup frame from LAN side will directly

egress the WAN port without modification.

Multicast Proxy: If enabled, the router will use multicast proxy.

Step 5: Configure the WAN gateway address. After you configure it click **Next**. The default setting is recommended.



Step 6: Configure the WAN DNS address according to your ISP.

-Click the **Select DNS Server Interface** from available WAN interfaces option;

-Or select the **Use the following Static DNS IP address** option and enter static DNS server IP addresses for the system.

And then click **Next**.



Step 7: Here you can view your configurations. Click **Apply/Save** to save your settings if everything is correctly set.

Tenda

Device Info
 Advanced Setup
 Layer2 Interface
 ATM Interface
 ETH Interface
WAN Service
 LAN
 NAT
 Security
 Parental Control
 Bandwidth Control
 Routing
 DNS
 DSL
 Storage Service

WAN Setup - Summary

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

Connection Type:	PPPoE
NAT:	Enabled
Full Cone NAT:	Disabled
Firewall:	Enabled
IGMP Multicast:	Disabled
Quality Of Service:	Enabled

Click "Apply/Save" to have this interface to be effective. Click "Back" to make any modifications.

[Back](#) [Apply/Save](#)

When the PPPoE connection is successful, you can access the Internet.

Tenda

Device Info
 Advanced Setup
 Layer2 Interface
 ATM Interface
 ETH Interface
WAN Service
 LAN
 NAT
 Security

Wide Area Network (WAN) Service Setup

Choose Add, Remove or Edit to configure a WAN service over a selected interface.

Interface	Description	Type	Vlan802.Ip	VlanMuxId	Igmp	NAT	Firewall	IPv6	Mfd	Remove	Edit
ppp0.1	pppoe_eth0	PPPoE	N/A	N/A	Disabled	Enabled	Enabled	Disabled	Disabled	<input type="checkbox"/>	Edit

[Add](#) [Remove](#)

IPv4 & IPv6 (Dual Stack)

Step 1: Click **Advanced Setup > WAN Service** and then click the **Add** button.

Tenda

Device Info
 Advanced Setup
 Layer2 Interface
 ATM Interface
 ETH Interface
WAN Service
 LAN

Wide Area Network (WAN) Service Setup

Choose Add, Remove or Edit to configure a WAN service over a selected interface.

Interface	Description	Type	Vlan802.Ip	VlanMuxId	Igmp	NAT	Firewall	IPv6	Mfd	Remove	Edit
ppp0.1	pppoe_eth0	PPPoE	N/A	N/A	Disabled	Enabled	Enabled	Disabled	Disabled	<input type="checkbox"/>	Edit

[Add](#) [Remove](#)

Step 2: Select the ETH interface you added just now from the pull-down menu in the figure below. Click **Next**.

Tenda

Device Info
 Advanced Setup
 Layer2 Interface
 ATM Interface
 ETH Interface
WAN Service

WAN Service Interface Configuration

Select a layer 2 interface for this service

eth0/eth0 ▼

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

Step 3: Select PPP over Ethernet. Edit the **Enter Service Description**. This field is optional. It is recommended that you keep the default. Select a network protocol: **IPv4&IPv6 (Dual Stack)**. And click **Next**.

Tenda

WAN Service Configuration

Device Info

Advanced Setup

Layer2 Interface

ATM Interface

ETH Interface

WAN Service

LAN

NAT

Security

Parental Control

Bandwidth Control

Routing

DNS

DSL

Storage Service

Interface Grouping

IP Tunnel

Certificate

Multicast

IPTV

Select WAN service type:

PPP over Ethernet (PPPoE)

IP over Ethernet

Bridging

Enter Service Description:

For tagged service, enter valid 802.1P Priority and 802.1Q VLAN ID.
For untagged service, set -1 to both 802.1P Priority and 802.1Q VLAN ID.

Enter 802.1P Priority [0-7]:

Enter 802.1Q VLAN ID [0-4094]:

Network Protocol Selection:

Step 4: Enter PPP username and PPP password provided by your ISP. Check **Launch Dhcp6c for Prefix Delegation (IAPD)**. If your ISP is using stateful DHCPv6, check **Launch Dhcp6c for Address Assignment (IANA)** also. Or configure a static IP address.

Tenda

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:

MAC Clone: (eg. XX:XX:XX:XX:XX:XX)

MTU: (576-1492, default:1450)

Enable Fullcone NAT

Dial on demand (with idle timeout timer)

PPP IP extension

Enable Firewall

Use Static IPv4 Address

Use Static IPv6 Address

Enable IPv6 Unnumbered Model

Launch Dhcp6c for Address Assignment (IANA)

Launch Dhcp6c for Prefix Delegation (IAPD)

Enable PPP Debug Mode

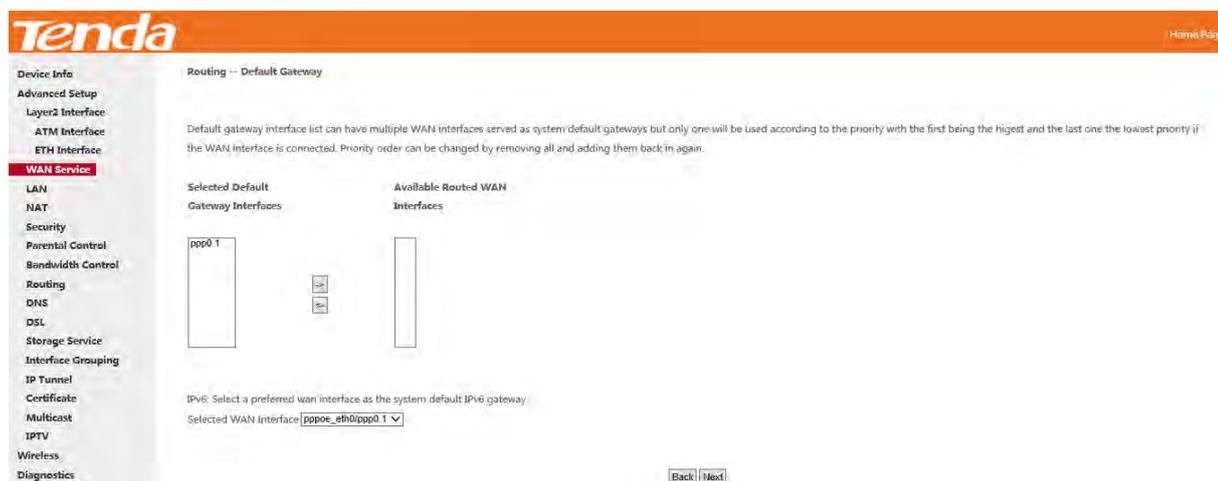
Bridge PPPoE Frames Between WAN and Local Ports

Multicast Proxy

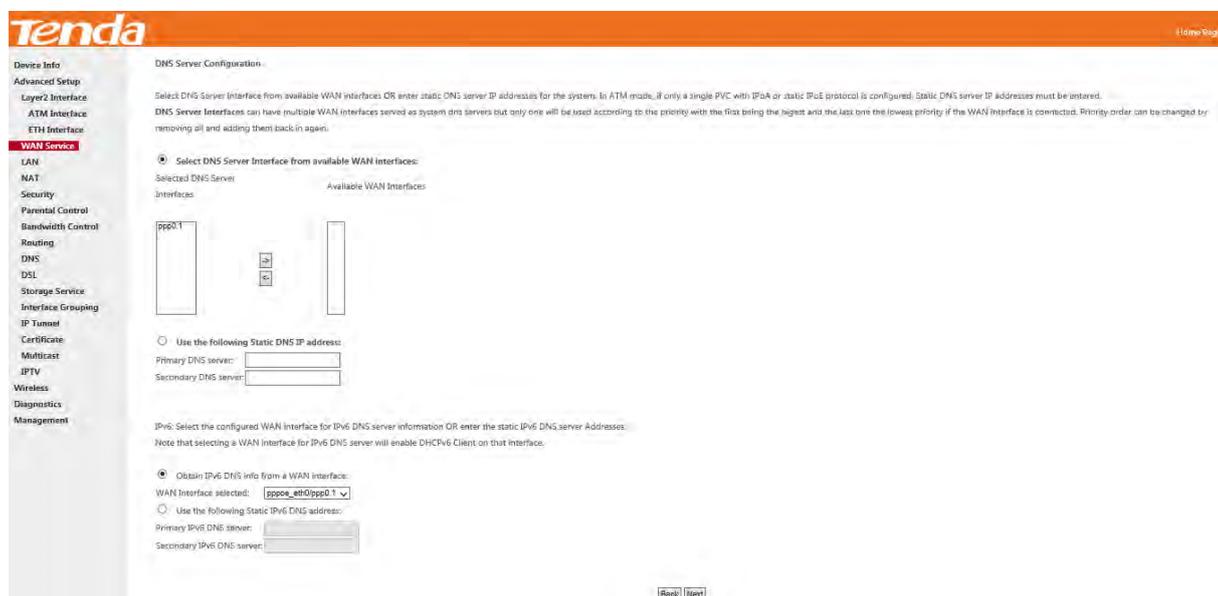
Enable IGMP Multicast Proxy

Enable MLD Multicast Proxy

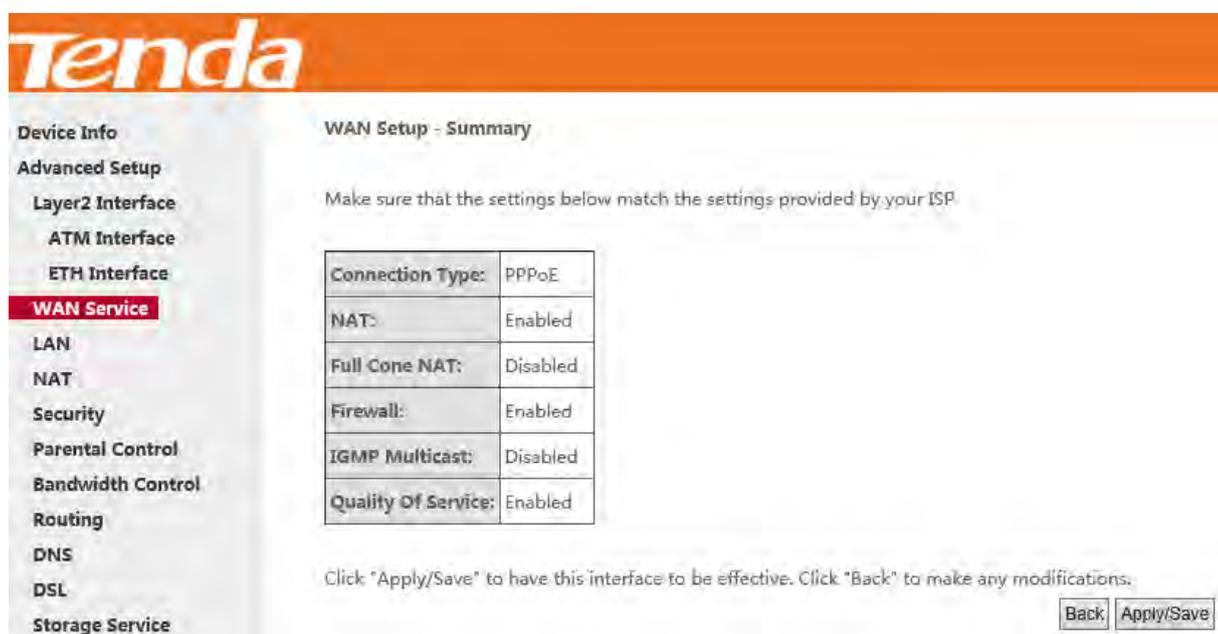
Step 5: Select an available WAN interface as the system default gateway. Then click **Next**.



Step 6: Configure DNS server (Select an available DNS server interface or use a specified DNS server); configure IPv6 DNS server (Obtain IPv6 DNS info from a WAN interface or use a specified DNS server), and then click **Next**.



Step 7: Here you can view your configurations. Click **Apply/Save** to save your settings if everything is correctly set.



When the PPPoE connection is successful, you can access the Internet.



IPv6

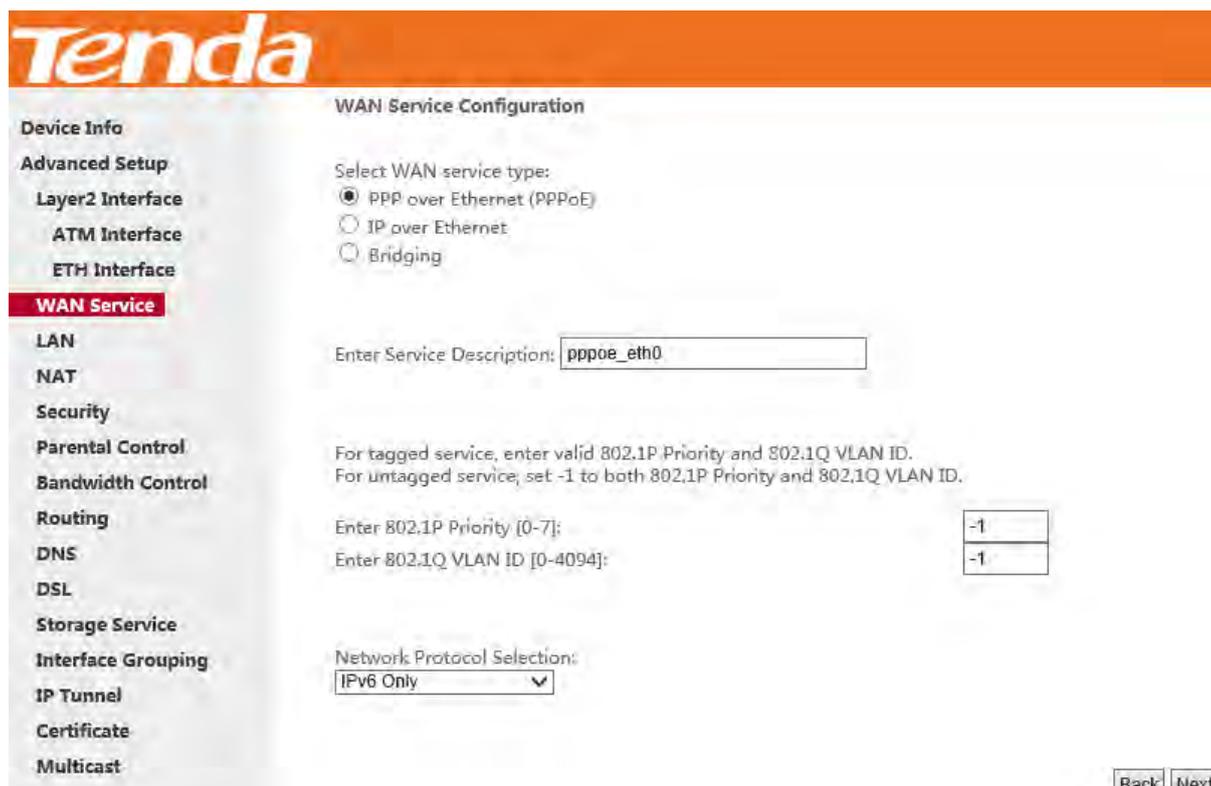
Step 1: Click **Advanced Setup > WAN Service** and then click the **Add** button.



Step 2: Select the ETH interface you added just now from the pull-down menu in the figure below. Click **Next**.



Step 3: Select **PPP over Ethernet**. Edit the **Enter Service Description**. This field is optional. It is recommended that you keep the default. Select a network protocol: **IPv6 Only**. And click **Next**.



Step 4: Enter PPP username and PPP password provided by your ISP. Check **Launch Dhcp6c for Prefix Delegation (IAPD)**. If your ISP is using stateful DHCPv6, check **Launch Dhcp6c for Address Assignment (IANA)** also. Or configure a static IP address.

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:

MAC Clone:

MTU: (576-1492, default: 1460)

Enable Fullcone NAT

Dial on demand (with idle timeout timer)

PPP IP extension

Enable Firewall

Use Static IPv4 Address

Use Static IPv6 Address

Enable IPv6 Unnumbered Model

Launch Dhcp6c for Address Assignment (IANA)

Launch Dhcp6c for Prefix Delegation (IAPD)

Enable PPP Debug Mode

Bridge PPPoE Frames Between WAN and Local Ports

Multicast Proxy

Enable IGMP Multicast Proxy

Enable MLD Multicast Proxy

Step 5: Select a preferred WAN interface from the WAN interface list as the system default IPv6 gateway. Click **Next**.

Routing - Default Gateway

Default gateway interface list can have multiple WAN interfaces served as system default gateways, but only one will be used according to the priority with the first being the highest and the last one the lowest priority if the WAN interface is connected. Priority order can be changed by removing all and adding them back in again.

Selected Default Gateway Interfaces	Available Routed WAN Interfaces
IPv6.1	

IPv6: Select a preferred wan interface as the system default IPv6 gateway.

Selected WAN interface:

Step 6: Select the configured WAN interface for IPv6 DNS server information or use a static IPv6 DNS server address. Note that selecting a WAN interface for IPv6 DNS server will enable DHCPv6 Client on that interface. And then click **Next**.

DNS Server Configuration

Select DNS Server Interface from available WAN interfaces OR enter static DNS server IP addresses for the system. In ATM mode, if only a single PVC with ADSL or static IPoE protocol is configured, static DNS server IP addresses must be entered. DNS Server Interfaces can have multiple WAN interfaces served as system dns servers but only one will be used according to the priority with the first being the highest and the last one the lowest priority if the WAN interface is connected. Priority order can be changed by removing all and adding them back in again.

Select DNS Server Interface from available WAN interfaces:

Selected DNS Server Interfaces: Available WAN Interfaces:

Use the following Static DNS IP address:

Primary DNS server:
Secondary DNS server:

IPv6: Select the configured WAN interface for IPv6 DNS server information OR enter the static IPv6 DNS server Addresses. Note that selecting a WAN interface for IPv6 DNS server will enable DHCPv6 Client on that interface.

Obtain IPv6 DNS info from a WAN interface:
WAN Interface selected:
 Use the following Static IPv6 DNS address:
Primary IPv6 DNS server:
Secondary IPv6 DNS server:

Step 7: Here you can view your configurations. Click **Apply/Save** to save your settings if everything is correctly set.

WAN Setup - Summary

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

Connection Type:	PPPoE
NAT:	Enabled
Full Cone NAT:	Disabled
Firewall:	Enabled
IGMP Multicast:	Disabled
Quality Of Service:	Enabled

Click "Apply/Save" to have this interface to be effective. Click "Back" to make any modifications.

When the PPPoE connection is successful, you can access the Internet.

Wide Area Network (WAN) Service Setup

Choose Add, Remove or Edit to configure a WAN service over a selected interface.

Interface	Description	Type	Vlan802.1p	VlanMtuId	Igmp	NAT	Firewall	IPv6	Mld	Remove	Edit
ppp0.1	pppoe_eth0	PPPoE	N/A	N/A	Disabled	Disabled	Enabled	Enabled	Disabled	<input type="checkbox"/>	<input type="button" value="Edit"/>

▪ IP over Ethernet (IPoE)

If you get an IP address from your ISP automatically or if your ISP assigns you a static (fixed) IP address, subnet mask and gateway, you need to select the IP over Ethernet (IPoE).

IPv4

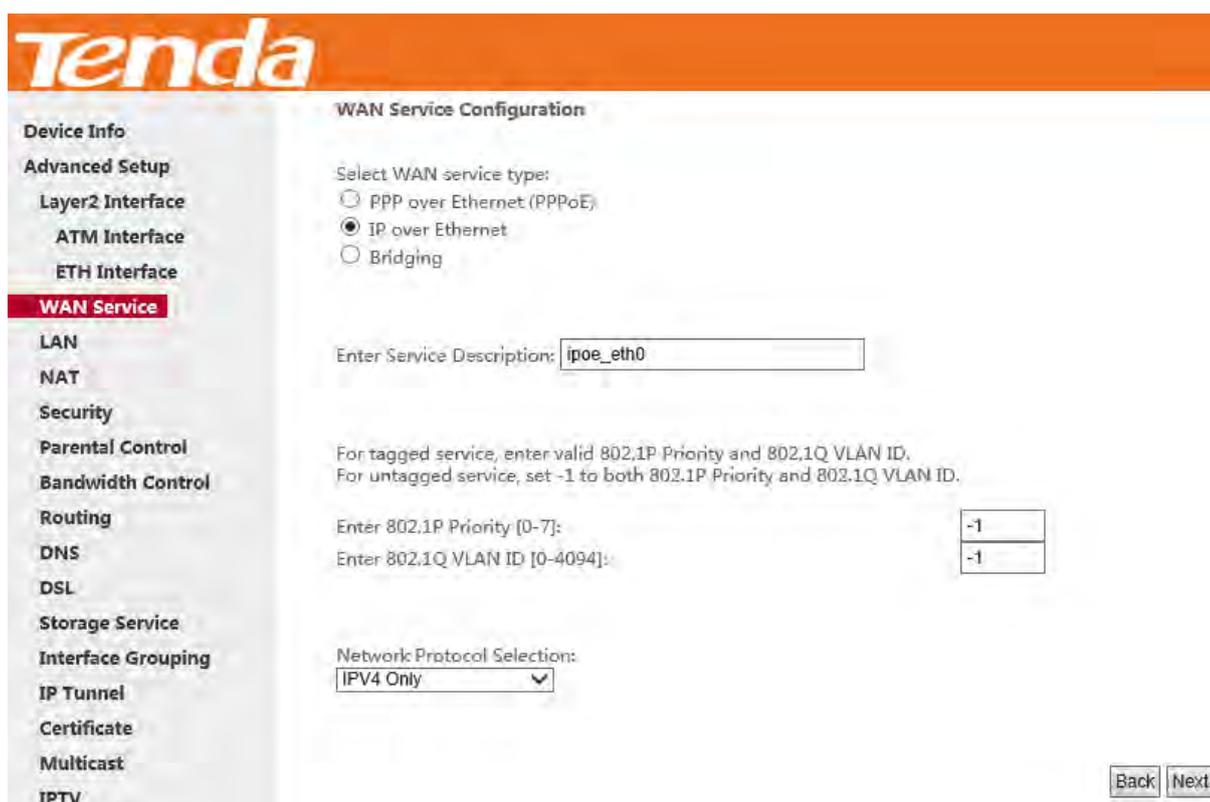
Step 1: Click **Advanced Setup** > **WAN Service** and then click the **Add** button.



Step 2: Select the ETH interface you added just now from the pull-down menu in the figure below. Click **Next**.



Step 3: Select **IP over Ethernet** as WAN service type. Edit the **Enter Service Description**. This field is optional. It is recommended that you keep the default. Select a network protocol: **IPv4 Only**. And then click **Next**.



Step 4: Enter the IP address/subnet mask/gateway IP address provided by your ISP or select **Obtain an IP address automatically** and then click the **Next** button.

Obtain an IP address automatically: This allows the router to automatically acquire IP information from your ISP or your existing networking equipment.

Use the following Static IP address: This allows you to specify the Static IP information provided by your ISP or that corresponds with your existing networking equipment.

WAN IP Address: The Internet IP address provided by your ISP for accessing the Internet.

WAN Subnet Mask: The subnet mask address provided by your ISP for accessing the Internet.

WAN gateway IP Address: The gateway IP address provided by your ISP for accessing the Internet.

Step 5: Here you can configure the NAT. If you are not an advanced user, the default settings are recommended and then click **Next**.

Step 6: Here you can configure the WAN gateway address. After you configure it click **Next**. The default setting is recommended.

Step 7: Here you can configure the WAN DNS address.

-Click the **Select DNS Server Interface** from available WAN interfaces option;

-Or select the **Use the following Static DNS IP address** option and enter static DNS server IP addresses for the system.

And then click **Next**.

Step 8: Here you can view your configurations. Click **Apply/Save** to save your settings if everything is correctly set.

Tenda

Device Info

Advanced Setup

Layer2 Interface

ATM Interface

ETH Interface

WAN Service

LAN

NAT

Security

Parental Control

Bandwidth Control

Routing

DNS

DSL

Storage Service

WAN Setup - Summary

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

Connection Type:	IPoE
NAT:	Enabled
Full Cone NAT:	Disabled
Firewall:	Enabled
IGMP Multicast:	Disabled
Quality Of Service:	Enabled

Click "Apply/Save" to have this interface to be effective. Click "Back" to make any modifications.

[Back](#) [Apply/Save](#)

When the IPoE connection is successful, you can access the Internet.

Tenda

Device Info

Advanced Setup

Layer2 Interface

ATM Interface

ETH Interface

WAN Service

LAN

NAT

Security

Wide Area Network (WAN) Service Setup

Choose Add, Remove or Edit to configure a WAN service over a selected interface.

Interface	Description	Type	Vlan802.1p	VlanMuxId	Igmp	NAT	Firewall	IPv6	Mld	Remove	Edit
eth0.1	ipoe_eth0	IPoE	N/A	N/A	Disabled	Enabled	Enabled	Disabled	Disabled	<input type="checkbox"/>	Edit

[Add](#) [Remove](#)

IPv4 & IPv6 (Dual Stack)

Step 1: Click **Advanced Setup > WAN Service** and then click the **Add** button.

Tenda

Device Info

Advanced Setup

Layer2 Interface

ATM Interface

ETH Interface

WAN Service

LAN

Wide Area Network (WAN) Service Setup

Choose Add, Remove or Edit to configure a WAN service over a selected interface.

Interface	Description	Type	Vlan802.1p	VlanMuxId	Igmp	NAT	Firewall	IPv6	Mld	Remove	Edit
-----------	-------------	------	------------	-----------	------	-----	----------	------	-----	--------	------

[Add](#) [Remove](#)

Step 2: Select the ETH interface you added just now from the pull-down menu in the figure below. Click **Next**.

Tenda

Device Info

Advanced Setup

Layer2 Interface

ATM Interface

ETH Interface

WAN Service

WAN Service Interface Configuration

Select a layer 2 interface for this service

eth0/eth0

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

Step 3: Select **IP over Ethernet** as WAN service type. Edit the **Enter Service Description**. This field is optional. It is recommended that you keep the default. Select a network protocol: **IPv4&IPv6 (Dual Stack)**. And then click **Next**.

WAN Service Configuration

Select WAN service type:

PPP over Ethernet (PPPoE)

IP over Ethernet

Bridging

Enter Service Description:

For tagged service, enter valid 802.1P Priority and 802.1Q VLAN ID.
For untagged service, set -1 to both 802.1P Priority and 802.1Q VLAN ID.

Enter 802.1P Priority [0-7]:

Enter 802.1Q VLAN ID [0-4094]:

Network Protocol Selection:

Step 4: Enter information provided by your ISP to configure the WAN IP settings.

WAN IP Settings

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

Notice: If "Obtain an IP address automatically" is chosen, DHCP will be enabled for PVC in IPoE mode.
If "Use the following Static IP address" is chosen, enter the WAN IP address, subnet mask and interface gateway.

MTU: (576-1500,default:1500)

Obtain an IP address automatically

Option 60 Vendor ID:

Option 61 IAD: (16 hexadecimal digits)

Option 61 DUID: (hexadecimal digit)

Option 125: Disable Enable

Use the following Static IP address:

WAN IP Address:

WAN Subnet Mask:

WAN gateway IP Address:

Enter information provided to you by your ISP to configure the WAN IPv6 settings.

Notice:
If "Obtain an IPv6 address automatically" is chosen, DHCPv6 Client will be enabled on this WAN interface.
If "Use the following Static IPv6 address" is chosen, enter the static WAN IPv6 address. If the address prefix length is not specified, it will be default to /64

Obtain an IPv6 address automatically

Dhcppv6 Address Assignment (DANA)

Dhcppv6 Prefix Delegation (DAPD)

Use the following Static IPv6 address:

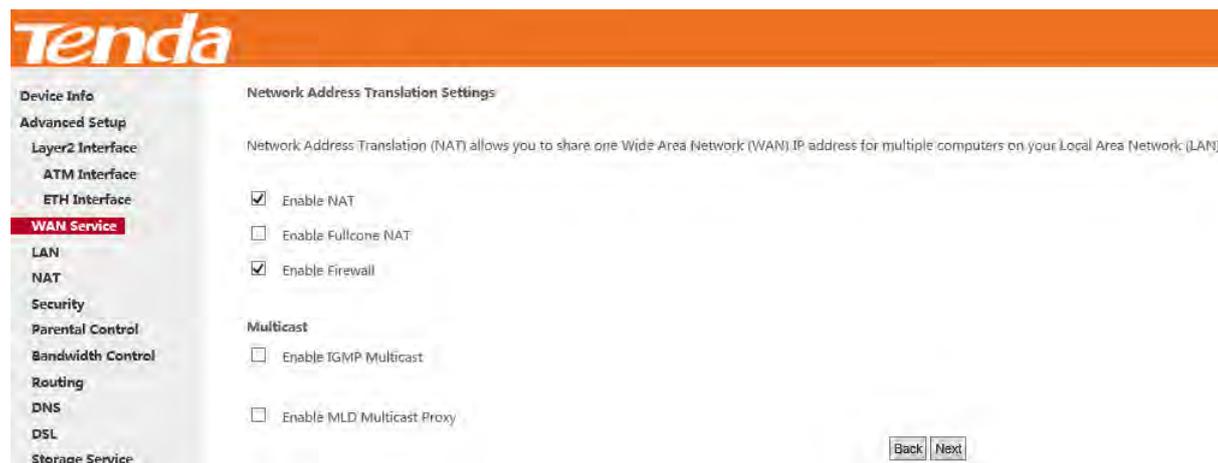
WAN IPv6 Address/Prefix Length:

Specify the Next-Hop IPv6 address for this WAN interface.

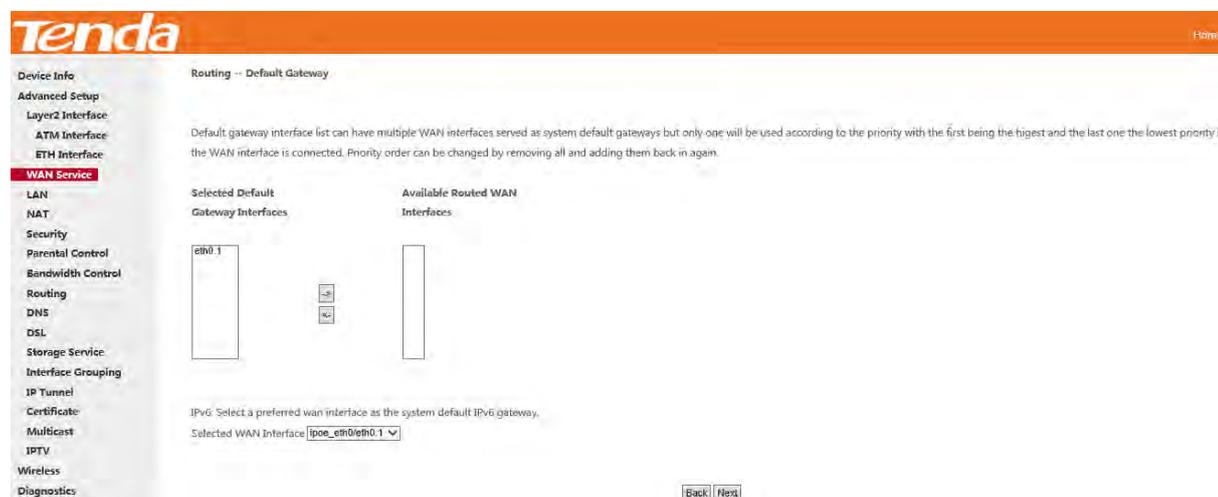
Notice: This address can be either a link local or a global unicast IPv6 address.

WAN Next-Hop IPv6 Address:

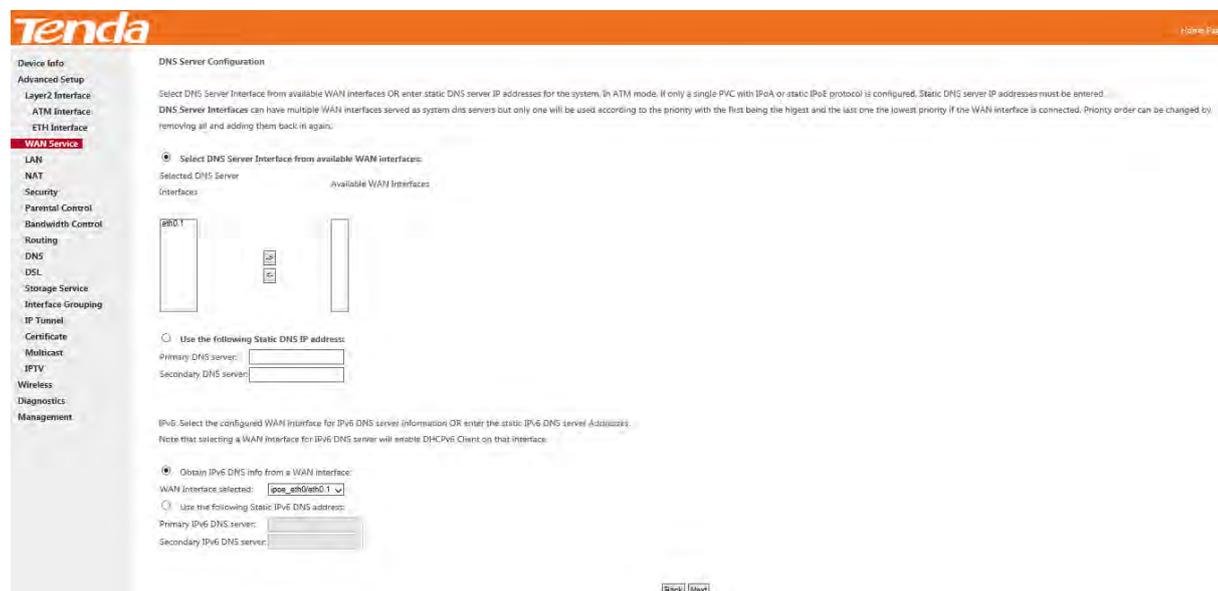
Step 5: Here you can configure the NAT. If you are not an advanced user, the default settings are recommended and then click **Next**.



Step 6: Configure a WAN interface as the default gateway.



Step 7: Configure DNS server (Select an available DNS server interface or use a specified DNS server); configure IPv6 DNS server (Obtain IPv6 DNS info from a WAN interface or use a specified DNS server), and then click **Next**.



Step 8: Here you can view your configurations. Click **Apply/Save** to save your settings if everything is correctly set.

Tenda

Device Info
Advanced Setup
Layer2 Interface
ATM Interface
ETH Interface
WAN Service
LAN
NAT
Security
Parental Control
Bandwidth Control
Routing
DNS
DSL
Storage Service

WAN Setup - Summary

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

Connection Type:	IPoE
NAT:	Enabled
Full Cone NAT:	Disabled
Firewall:	Enabled
IGMP Multicast:	Disabled
Quality Of Service:	Enabled

Click "Apply/Save" to have this interface to be effective. Click "Back" to make any modifications.

[Back](#) [Apply/Save](#)

When the IPoE connection is successful, you can access the Internet.

Tenda

Device Info
Advanced Setup
Layer2 Interface
ATM Interface
ETH Interface
WAN Service
LAN
NAT
Security

Wide Area Network (WAN) Service Setup

Choose Add, Remove or Edit to configure a WAN service over a selected interface.

Interface	Description	Type	Vlan802.1p	VlanMuxId	Igmp	NAT	Firewall	IPvE	Mid	Remove	Edit
eth0.1	ipoe_eth0	IPoE	N/A	N/A	Disabled	Enabled	Enabled	Enabled	Disabled	<input type="checkbox"/>	Edit

[Add](#) [Remove](#)

IPv6

Step 1: Click **Advanced Setup > WAN Service** and then click the **Add** button.

Tenda

Device Info
Advanced Setup
Layer2 Interface
ATM Interface
ETH Interface
WAN Service
LAN

Wide Area Network (WAN) Service Setup

Choose Add, Remove or Edit to configure a WAN service over a selected interface:

Interface	Description	Type	Vlan802.1p	VlanMuxId	Igmp	NAT	Firewall	IPv6	Mid	Remove	Edit
-----------	-------------	------	------------	-----------	------	-----	----------	------	-----	--------	------

[Add](#) [Remove](#)

Step 2: Select the ETH interface you added just now from the pull-down menu in the figure below. Click **Next**.

Tenda

Device Info
Advanced Setup
Layer2 Interface
ATM Interface
ETH Interface
WAN Service

WAN Service Interface Configuration

Select a layer 2 interface for this service

eth0/eth0 ▾

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

Step 3: Select **IP over Ethernet** as WAN service type. Edit the **Enter Service Description**. This field is optional. We recommend that you keep the default. Select a network protocol: **IPv6 Only**. And then click **Next**.

Tenda

WAN Service Configuration

Device Info

Advanced Setup

Layer2 Interface

ATM Interface

ETH Interface

WAN Service

LAN

NAT

Security

Parental Control

Bandwidth Control

Routing

DNS

DSL

Storage Service

Interface Grouping

IP Tunnel

Certificate

Multicast

IPTV

Select WAN service type:

PPP over Ethernet (PPPoE)

IP over Ethernet

Bridging

Enter Service Description:

For tagged service, enter valid 802.1P Priority and 802.1Q VLAN ID.
For untagged service, set -1 to both 802.1P Priority and 802.1Q VLAN ID.

Enter 802.1P Priority [0-7]:

Enter 802.1Q VLAN ID [0-4094]:

Network Protocol Selection:

Step 4: Enter the WAN information provided by your ISP to configure the WAN IPv6 settings.

To obtain an IP address automatically:

Select **Obtain an IPv6 address automatically** and Check **Dhcpv6 Prefix Delegation (IAPD)**.

If your ISP is using stateful DHCPv6, check **Dhcpv6 Address Assignment (IANA)** also. Click **Next** to go forwards.

Tenda

Obtain an IP address automatically

Option 60 Vendor ID:

Option 61 IAID: (8 hexadecimal digits)

Option 61 DUID: (hexadecimal digit)

Option 125: Disable Enable

Use the following Static IP address:

WAN IP Address:

WAN Subnet Mask:

WAN gateway IP Address:

Enter information provided to you by your ISP to configure the WAN IPv6 settings.

Notice:

If "Obtain an IPv6 address automatically" is chosen, DHCPv6 Client will be enabled on this WAN interface.

If "Use the following Static IPv6 address" is chosen, enter the static WAN IPv6 address. If the address prefix length is not specified, it will be default to /E4.

Obtain an IPv6 address automatically

Dhcpv6 Address Assignment (IANA)

Dhcpv6 Prefix Delegation (IAPD)

Use the following Static IP address:

WAN IPv6 Address/Prefix Length:

Specify the Next-Hop IPv6 address for this WAN interface.

Notice: This address can be either a link local or a global unicast IPv6 address.

WAN Next-Hop IPv6 Address: