

Tenda

User Guide

www.tendacn.com



300M Portable 3G/4G Wireless router
+5200mAh Portable Power Source

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Preface

Thank you for choosing Tenda ! Please read this user guide before you start! This user guide instructs you to install and configure your device. This user guide applies to 4G300, 4G301 and 4G302. The 4G301 is used as an example throughout this user guide.

This user guide uses the following formats to highlight special messages:

Icon	Description
 Note	This format is used to highlight information of importance or special interest. Ignoring this type of note may result in ineffective configurations, loss of data or damage to device.
 Tip	This format is used to highlight a procedure that will save time or resources.
 Knowledge Center	Description of fields on the device GUI.

Technical Support

- Website: <http://www.tendacn.com>
- Email: support02@tenda.com.cn
- Skype: tendasz
- YouTube: Tendasz1999
- Hotline:
 - 1-800-570-5892 (USA) (061) 1300787922 (Australia)
 - (044)197-780-6119 (UK) (0852)36120883 (Hong Kong)
 - (064) 800787922 (New Zealand)

Table of Contents

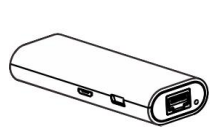
Copyright Statement.....	I
Disclaimer	I
Preface	II
This user guide uses the following formats to highlight special messages:.....	II
Technical Support.....	II
Table of Contents	III
I Product Overview	1
1 Package Contents.....	1
2 Getting to know your router	1
2.1 LED.....	1
2.2 Button & Interface	3
2.3 Label	2
II Quick Internet Setup	3
1 Getting Prepared.....	3
2. Hardware Install	4
2.1 Charging Router.....	4
2.2. Hardware Install.....	4
3 Connect to Router.....	7
3.1 Connect to Device Wirelessly	7
3.2 Connect to Device Using an Ethernet Cable.....	12
4 Smart Mode (Auto-switch between 3GRouter and Wireless Router Mode).....	12
5 Manual Internet Setup	13
5.1 Web Login.....	13
5.2 Manual Internet Setup& Wireless Security Setup.....	15
III Features & Configurations	25
1 Status	25
1.1 WAN Status.....	26
1.2 LAN Status.....	27
1.3 Wireless Status	27
1.4 System Status	28
2 Basic Settings	28
2.1 LAN Settings	29
2.2 WAN Settings.....	30
2.3 WAN Speed.....	36
2.4 DNS Settings.....	37
2.5 MAC Clone.....	38

2.6. DHCP.....	39
2.7 DHCP Client List.....	40
3 Wireless Settings	42
3.1 Wireless-Basic	42
3.2 Wireless Security	44
3.3 Access Control	45
3.4 Connection Status	47
4 Security.....	47
4.1 Client Filter	48
4.2 MAC Filter.....	51
4.3 URL Filter	54
4.4 Remote Web Management	56
5 Advanced Applications	58
5.1 DDNS	58
5.2 Port Forwarding	60
5.3 DMZ Host	63
5.4 UPNP	64
5.5 Route Table	65
6 Bandwidth Control	65
7 Tools	67
7.1 Time& Date.....	67
7.2 Firmware Upgrade	69
7.3 Backup & Restore	71
7.4 Restore to Factory Default Settings	74
7.5 Change Password	75
7.6 Logs	76
7.7 Reboot.....	76
IV Appendix.....	77
1 Configure PC TCP/IP Settings	77
Windows 7	77
Windows XP	83
2 FAQs.....	86
3 Factory Default Settings	87
4 Remove Wireless Network from Your PC	88
Windows 7	88
Windows XP	90
5 Safety and Emission Statement	92

I Product Overview

1 Package Contents

Unpack the package. Your box should contain the following items:



4G301



USB cable



Ethernet Cable



Quick Install Guide



Resource CD

If any of the parts are incorrect, missing, or damaged, contact your Tenda dealer. Keep the carton, including the original packing materials, in case you need to return the product for repair.

2 Getting to know your router

2.1 LED

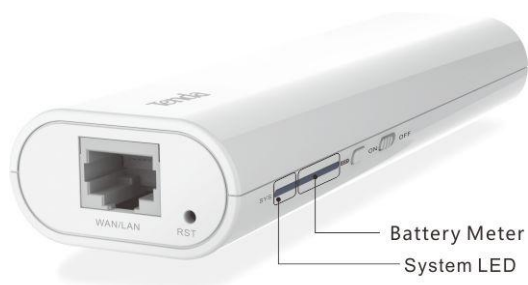
4G300



Battery Meter

LED	Status	Description
Battery Meter	Red	The amount of electrical energy capacity is less than 20%
	Light Green	The amount of electrical energy capacity is more than 20%
	Dark Green	The device is charging
	Blue	The unit is fully charged up

4G301



LED	Status	Description
Battery Meter	Red	The power level is very low
	Green	Display real-time level of power capacity
System LED	Blinking	The unit is starting up
	Solid	The unit is functioning correctly

4G302



LED	Status	Description
Battery Meter	Red	The power level is very low
	Green	Display real-time level of power capacity
System LED	Blinking	The unit is starting up
	Solid	The unit is functioning correctly

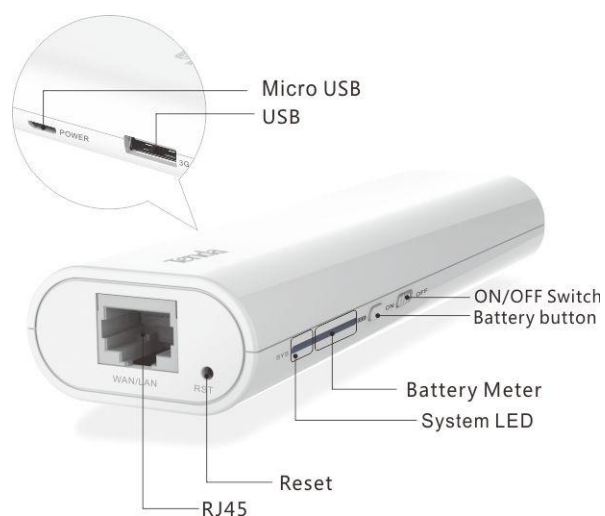
2.2 Button & Interface

4G300



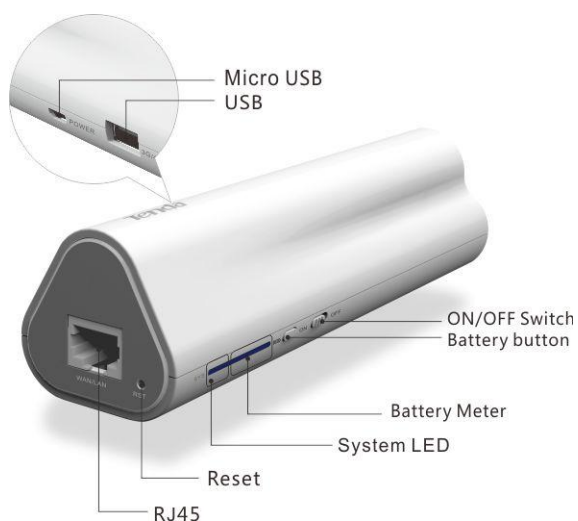
Button/Interface	Description
Micro USB	For charging the unit via a USB cable
USB	For connecting to a 3G/4G Modem or charging a terminal device (such as iPad, iPhone)
ON/OFF Switch	Power button to turn the unit on or off. The unit functions as a 3G/4G wireless router when turned on or a power bank when turned off
Reset	Pressing it with a needle for about 10 seconds resets the unit to the factory defaults
RJ45	Functions as a LAN port for connecting to a PC or switch in 3G/4G router mode and WISP mode. In other modes, this port functions as a WAN port for connecting to ISP

4G301



Button/Interface	Description
Micro USB Port	For charging the unit via a USB cable
USB	For connecting to a 3G/4G Modem or charging a terminal device (such as iPad, iPhone)
ON/OFF Switch	Power button to turn the unit on or off. The unit functions as a 3G/4G wireless router when turned on or a power bank when turned off
Battery Meter	Press it to view power level
Reset	Pressing it with a needle for about 10 seconds resets the unit to the factory defaults
RJ45	Functions as a LAN port for connecting to a PC or switch in 3G/4G router mode and WISP mode. In other modes, this port functions as a WAN port for connecting to ISP

4G302



Button/Interface	Description
Micro USB	For charging the unit via a USB cable
USB	For connecting to a 3G/4G Modem or charging a terminal device (such as iPad, iPhone)
ON/OFF Switch	Power button to turn the unit on or off. The unit functions as a 3G/4G wireless router when turned on or a power bank when turned off
Battery Meter	Press it to view power level
Reset	Pressing it with a needle for about 10 seconds resets the unit to the factory defaults
RJ45	Functions as a LAN port for connecting to a PC or switch in 3G/4G router mode and WISP mode. In other modes, this port functions as a WAN port for connecting to ISP

2.3 Label



1→Product Model

2→Default Login IP address. This IP address is to be used to access the router's settings through a web browser. If you change it, you have to open a new connection to the new IP address and log in again.

3→Default login password

4→Default wireless network name (SSID).

II Quick Internet Setup

1 Getting Prepared

Before you start the installation process, you need to prepare the following:

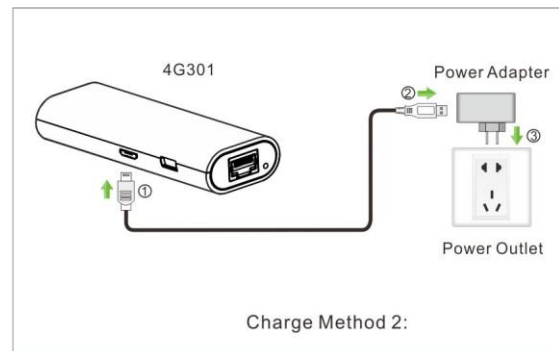
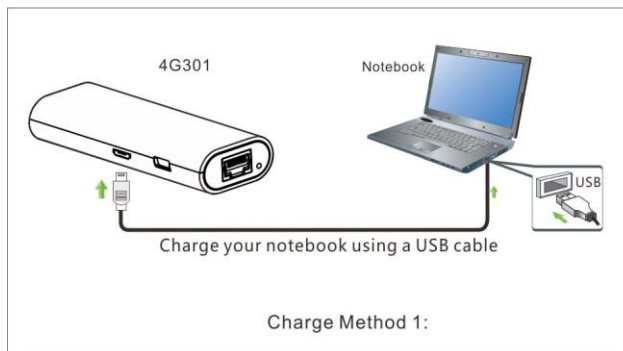
Item	Description
Router	Find it in your package
PC	Should have a installed IE8 or higher browser
Gather Information	DHCP, PPPoE or Static IP Internet Connection Type: 1. Ethernet Cable from the incoming Internet side: This is provided by your ISP 2. ISP Information: Your Internet service provider (ISP) should have provided you with all of the information needed to connect to the Internet. If you cannot locate this information, ask your ISP to provide it If your ISP uses a PPPoE Internet connection, you will need ISP login name and password ● If you use a DHCP Internet connection, no information is needed ● If your ISP gives you a fixed or static IP address for Internet connection, you will need to gather the following information: 1) IP Address 2) Subnet Mask 3) Gateway 4) DNS Server 5) Alternate DNS Server (Optional)
	3G/4G Internet Connection: 1. 3G/4G Modem: For 3G/4G Internet connection, you need to buy a 3G/4G modem 2. 3G/4G ISP Information: Your Internet service provider (ISP) should have provided you with all of the information needed to connect to the Internet. If you cannot locate this information, ask your ISP to provide it 3. Ethernet Cable: This can be found in the product package. You will need it to connect your PC to this device
	WISP Internet Access: 1. Remote AP's SSID, MAC address, security mode, cipher type and security key 2. Internet connection information provided by the remote AP 3. Ethernet Cable: This can be found in the product package. You will need it to connect your PC to this device

2. Hardware Install

2.1 Charging Router

Turn on the router and check the power level indicator LED. (For LED description, see [LED](#)) It is advisable to fully charge up the device if the amount of electrical energy capacity is less than 20%.

Charge Method:



Note-----

Please use the USB cable that comes in the package to charge this device. Using a different USB cable might cause damage to this device.

2.2. Hardware Install

Select a hardware install method according to your environment.

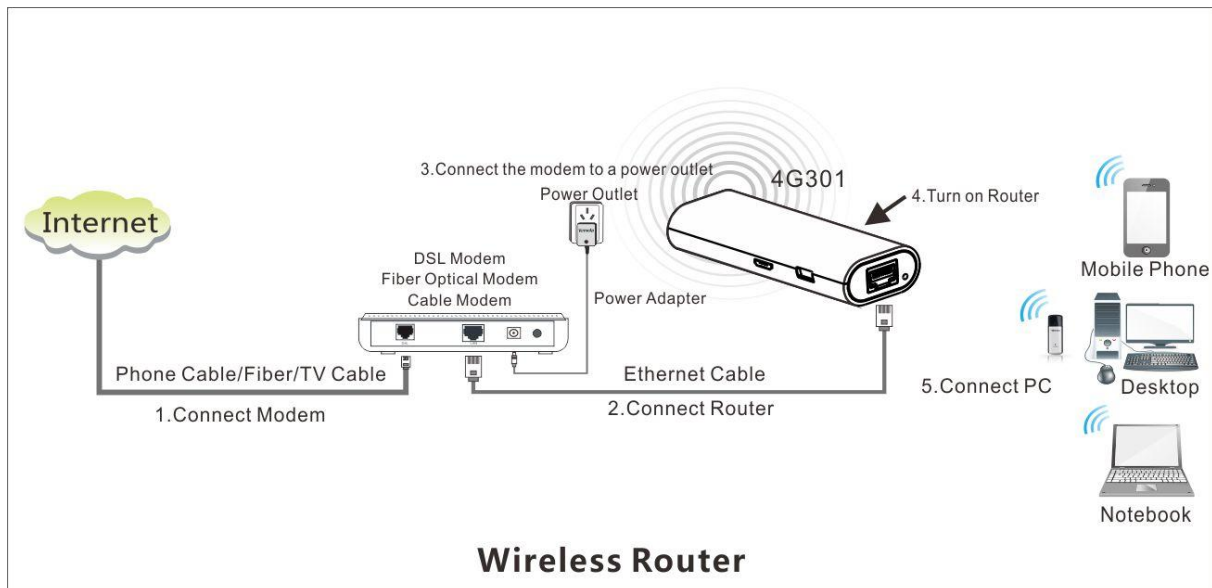
A. If you access Internet by connecting to the Ethernet cable from the incoming Internet side, see [**DHCP, PPPoE & Static IP**](#) to install hardware.

B. If you access Internet via a 3G or 4G modem, see [**3G Router Mode**](#) to install hardware.

C. If you acquire Internet access from your WISP AP or a wireless Access Point on an existing network see [**WISP Mode**](#) to install hardware.

DHCP, PPPoE & Static IP

In this mode, the RJ-45 port on this device functions as a WAN port. You must connect to this device wirelessly.

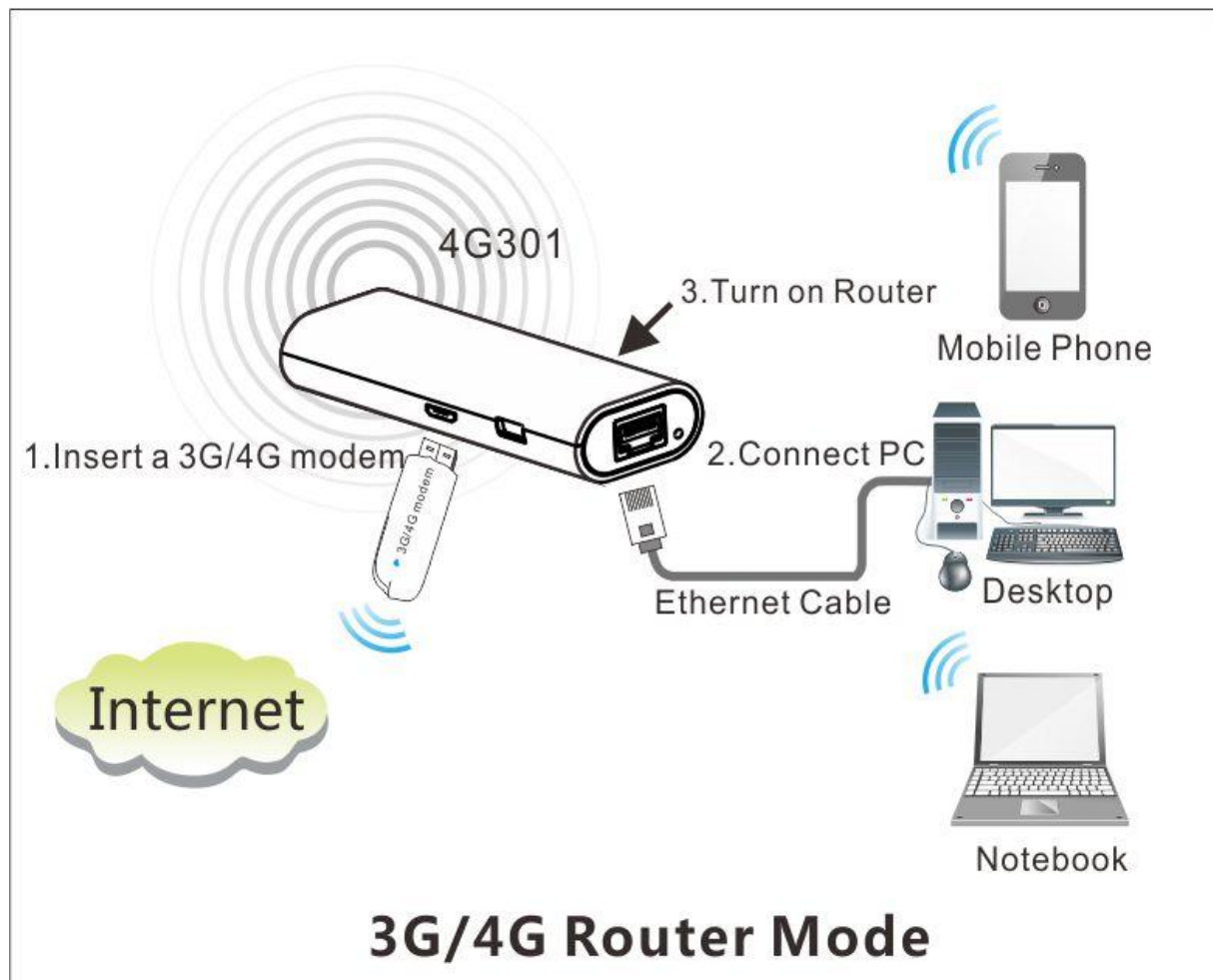


Tip-----

If you want to access and configure this device via a wired connection, simply attach a 3G modem to its USB port and system will automatically switch to the 3G Router mode. The RJ45 port will then function as a LAN port so that you can connect to it using an Ethernet cable. Set up Internet connection and secure your wireless network and then reconnect to this device.

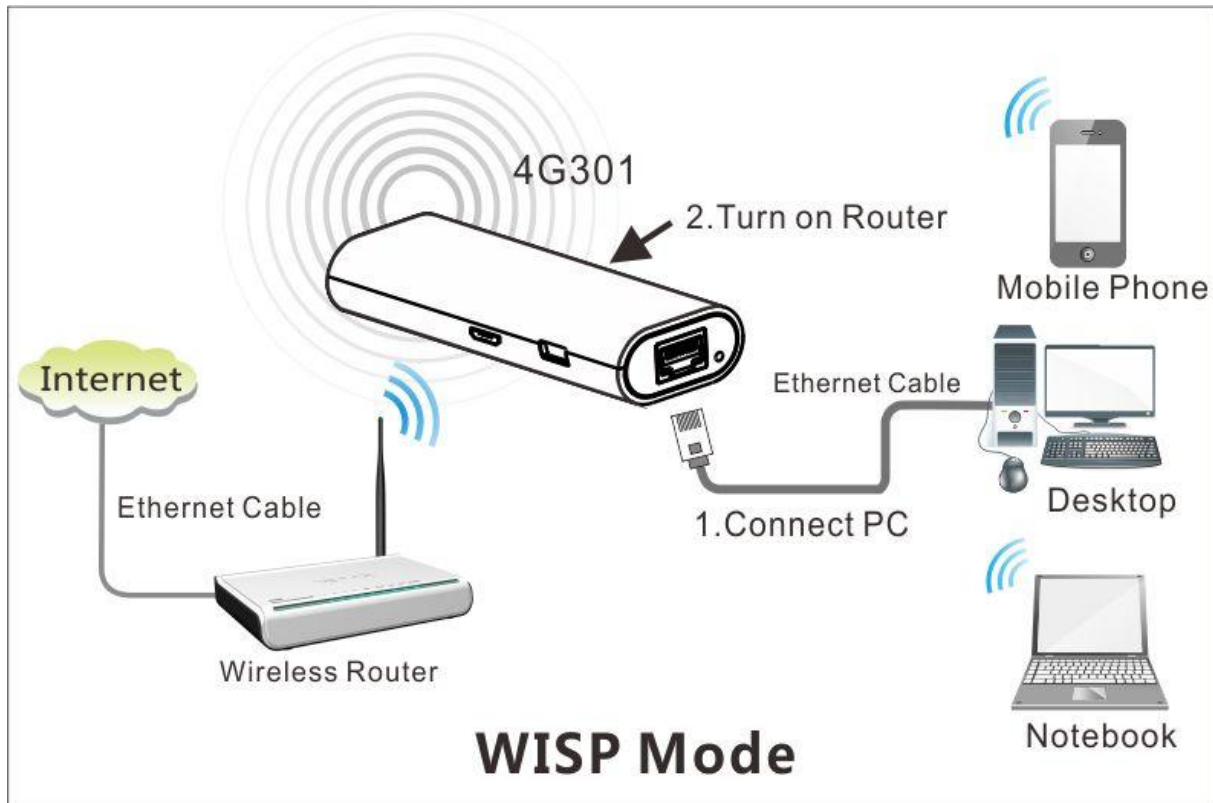
3G/4G Router Mode

In this mode, the RJ-45 port on this device functions as a WAN port. You can connect to this device using an Ethernet cable.



WISP Mode

In this mode, the RJ-45 port on this device functions as a WAN port. You can connect to this device using an Ethernet cable.



3 Connect to Router

In the Wireless Router (DHCP, PPPoE, Static IP) mode, clients (such as computers, smart phones and tablets) can only connect to this device wirelessly for sharing Internet access. In the WISP mode or 3G Router mode, computers, smart phones and tablets can access and connect to this device either wirelessly or using an Ethernet cable.

3.1 Connect to Device Wirelessly



Tip

1. The device's SSID is "Tenda_XXXXXX" by default (You can find it on the attached label).
2. If you secure your wireless network, you must use the security key to join it.
3. To join your wireless network, the PC you use must have an installed wireless network adapter. If not, install one.

Windows 7

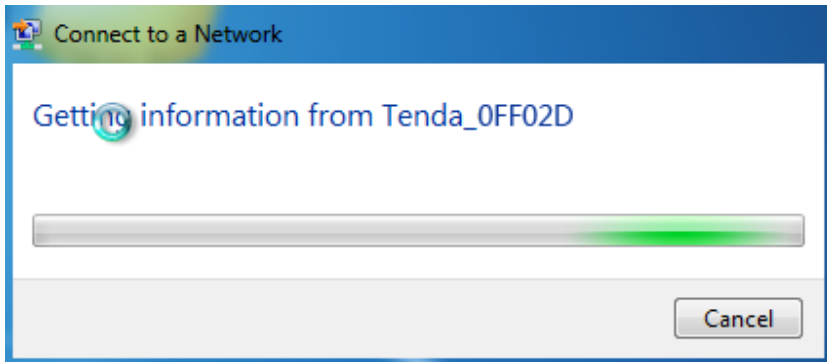
- ① Click the icon  on the notification area on the bottom right corner.



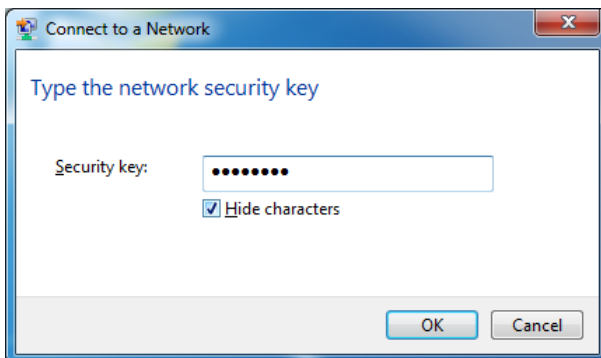
- ② Select the wireless network you wish to connect and click **Connect**.



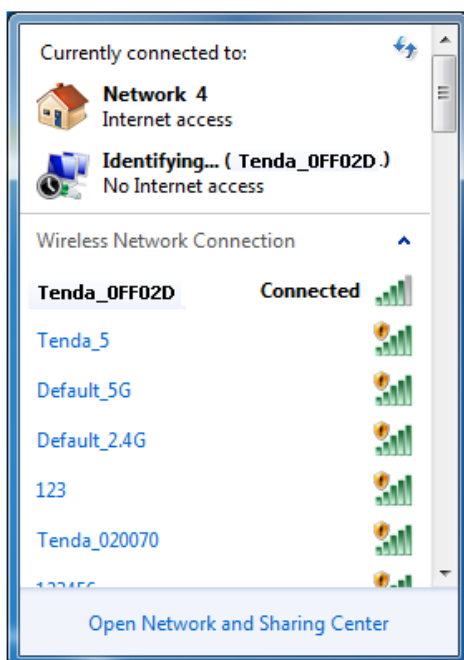
- ③ If you see the screen below, you are connecting to the wireless network.



- ④ Enter the security key and click **OK**.

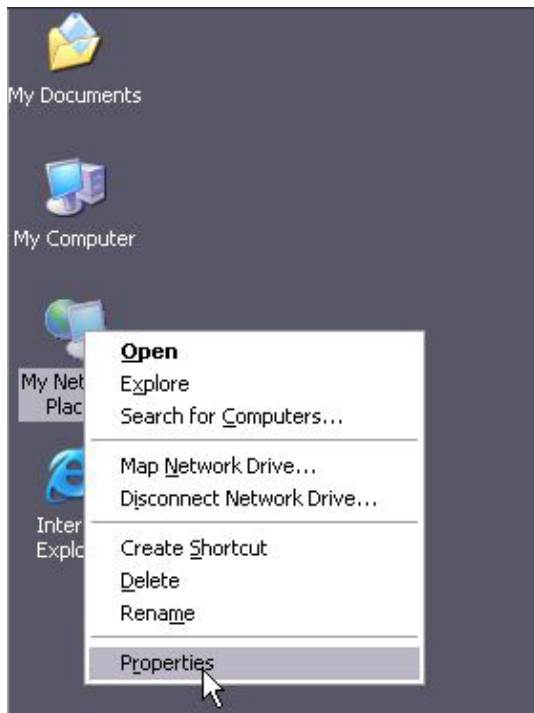


When you see **Connected** displayed next to the wireless network you selected, you have connected to the wireless network successfully.

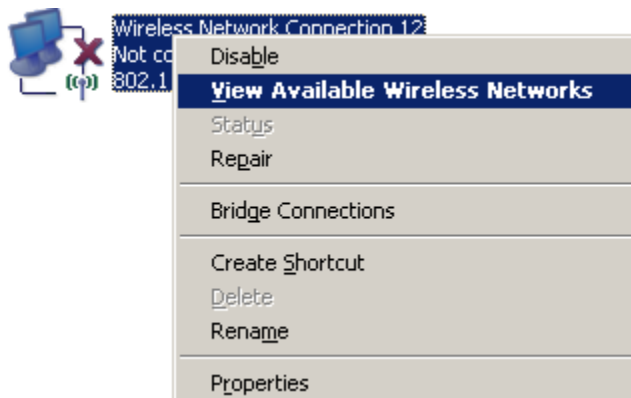


Windows XP

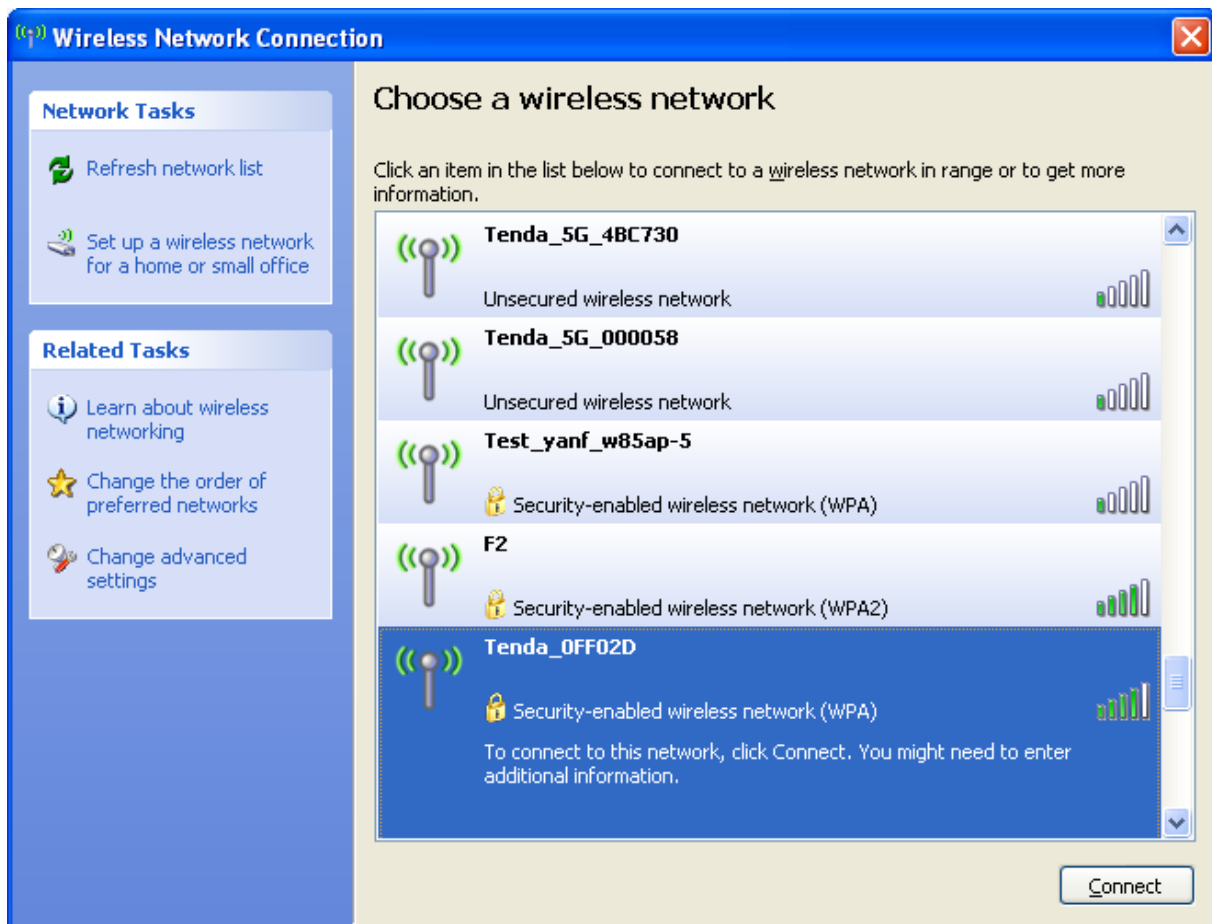
- ① Right click **My Network Places** from your PC's desktop and select **Properties**.



- ② Right click **Wireless Network Connection** and select **View Available Wireless Networks**.



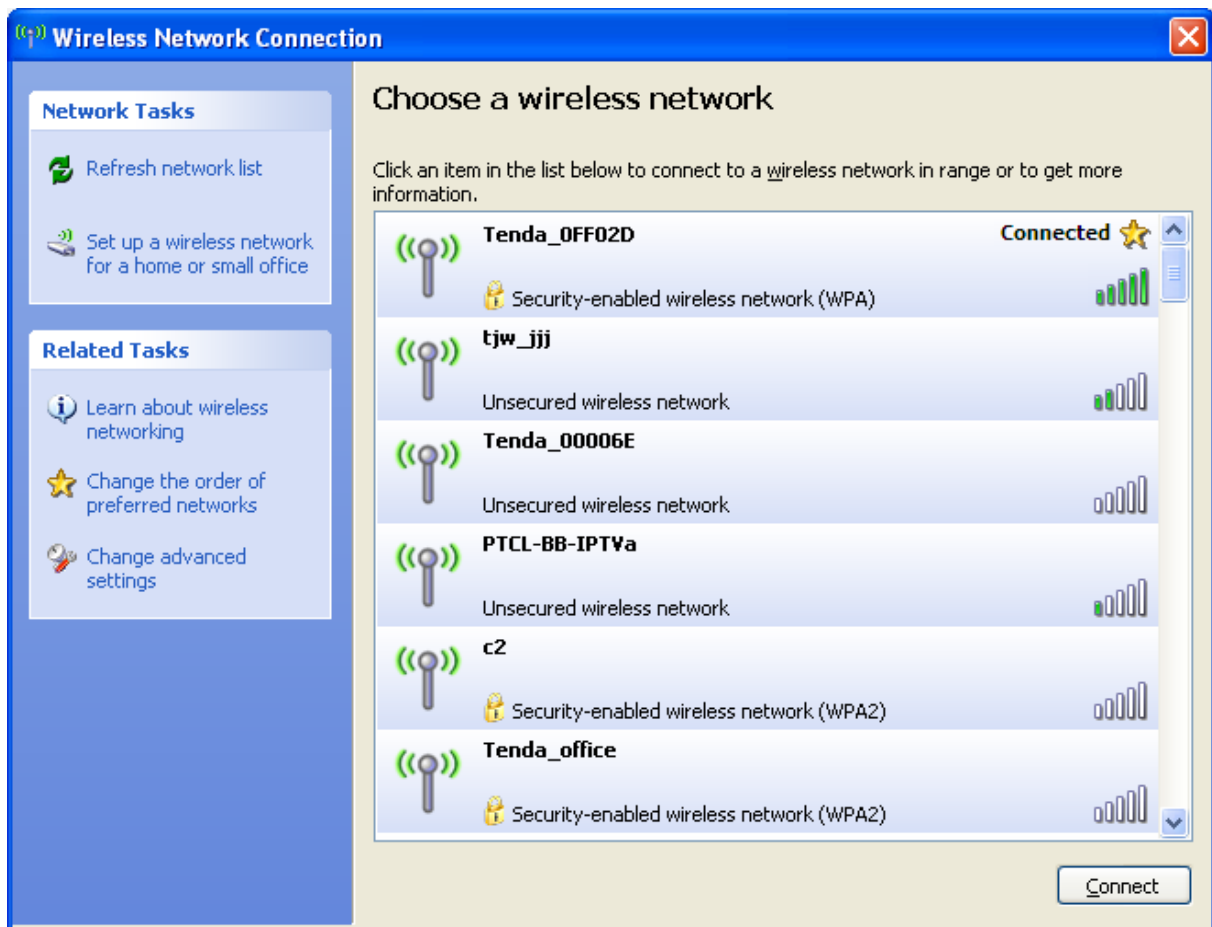
- ③ Double click the wireless network you wish to connect.



- ④ Enter the security key and click **Connect**.



- ⑤ When you see **Connected** displayed next to the wireless network you selected, you have connected to the wireless network successfully.



3.2 Connect to Device Using an Ethernet Cable

If your computer is set to a static or fixed IP address (this is uncommon), change it to "Obtain an IP address automatically" and "Obtain DNS server address automatically" from the device.

4 Smart Mode (Auto-switch between 3GRouter and Wireless Router Mode)

The device is preset to operate in the smart mode by default.

- Depending on whether there is an available 3G modem, system automatically switches to a) 3G Router mode (in the presence of a 3G modem); clients can share Internet access either through a wireless or wired connection to the device. There is no need for additional configurations!
- or b) Wireless Router mode (in the absence of a 3G modem): in the wireless router mode

and automatically detects and switches between PPPoE and DHCP. If you use the DHCP (Dynamic IP) connection type, you can simply access Internet via a wireless connection to this device, or if you use PPPoE, access this device wirelessly and then set up Internet. See **PPPoE**.

When you first time open a web page after successfully connecting to Internet, you will be prompted to customize a wireless security key to secure your wireless network. Simply follow the onscreen instructions there.

**Tip**-----

This device can automatically detect and switch among the DHCP, PPPoE and 3G router mode depending on the actual environment. If the Auto-switch feature is disabled, the device will automatically detect and switch to the right Internet connection type in case of an Internet connection failure.

5 Manual Internet Setup

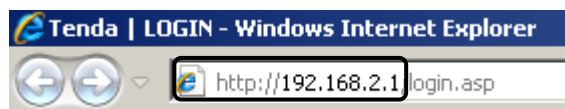
Read this section only when you fail to access Internet after you have tried the above mentioned steps or you can access Internet and want to change the SSID (wireless network name) and security key of this device.

5.1 Web Login

- ① Launch a web browser, say, IE.



- ② In the address bar, input 192.168.2.1, and press "Enter".

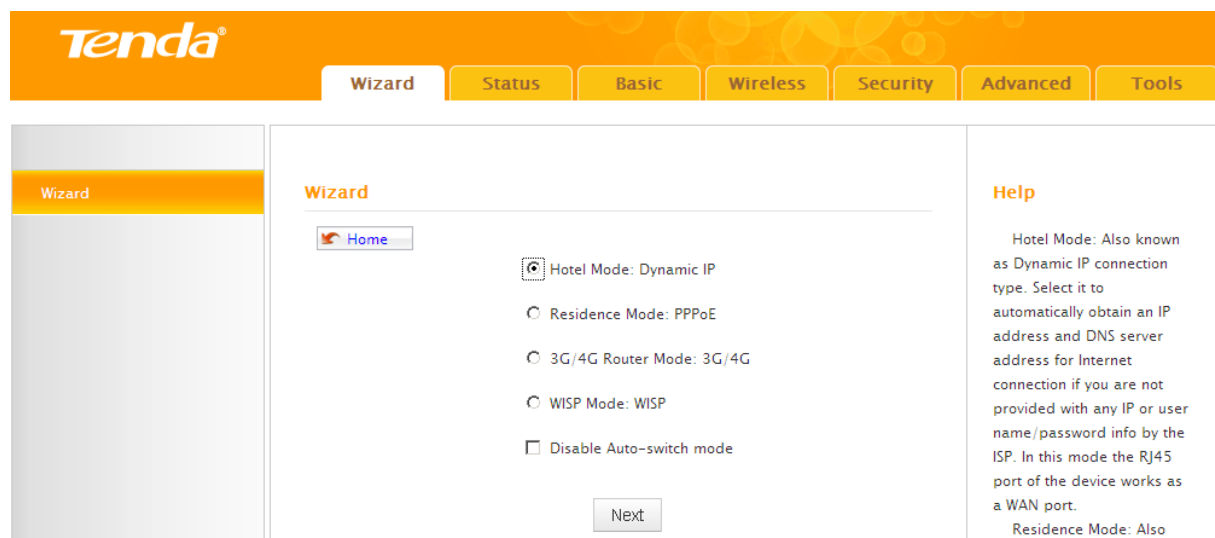


- ③ Enter the login password and click **Login**. The default password is admin.



The image shows the login page of a Tenda Wireless Router. At the top, there is a header with the text "Tenda Wireless Router" in orange. Below the header, there are two input fields: "User Name: admin" and "Password: " followed by a text box containing five dots. At the bottom, there are two buttons: "Login" and "Cancel".

- ④ You will come to the setup wizard interface. Here you can quickly set up Internet.



The image shows the "Wizard" setup interface of a Tenda router. The top navigation bar includes "Wizard", "Status", "Basic", "Wireless", "Security", "Advanced", and "Tools". The "Wizard" tab is selected. On the left, there is a sidebar with "Wizard" and "Home" links. The main content area is titled "Wizard" and contains a "Home" link, a list of connection modes with radio buttons, and a "Next" button. The modes are: "Hotel Mode: Dynamic IP" (selected), "Residence Mode: PPPoE", "3G/4G Router Mode: 3G/4G", "WISP Mode: WISP", and "Disable Auto-switch mode" (checkbox). A "Help" section on the right provides details about the selected mode.

Help

Hotel Mode: Also known as Dynamic IP connection type. Select it to automatically obtain an IP address and DNS server address for Internet connection if you are not provided with any IP or user name/password info by the ISP. In this mode the RJ45 port of the device works as a WAN port.

Residence Mode: Also



Tip-----

1. If you access Internet by connecting to the Ethernet cable from the incoming Internet side, see **Static IP**.
2. If you don't want to use the Auto-switch feature, check the **Disable Auto-switch mode** box.
3. You can also enable the Auto-switch mode feature after you manually set up Internet and your wireless network so that your router can fit different environment, eliminating manual intervention.

5.2 Manual Internet Setup& Wireless Security Setup

Read the following and determine your Internet connection type. Then follow the right setup wizard.

A. If your ISP provides you with an Ethernet cable from the incoming Internet side but no ISP login account or IP information, your ISP uses a DHCP connection. See **DHCP**.

B. If your ISP provides you with an Ethernet cable from the incoming Internet side and ISP login account, your ISP uses a PPPoE connection. See **PPPoE**.

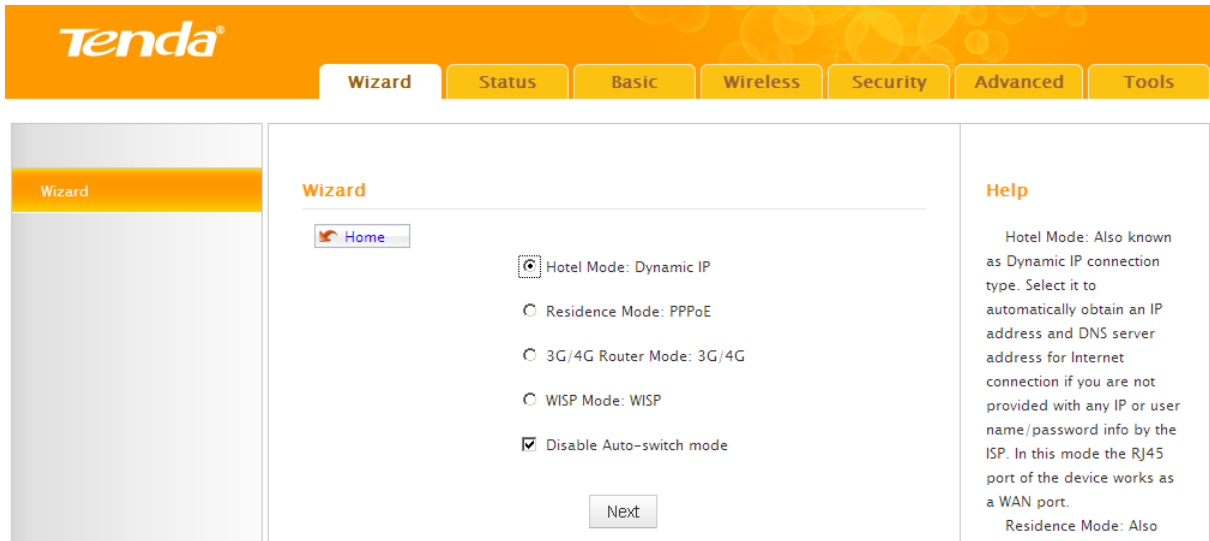
C. If your ISP provides you with an Ethernet cable from the incoming Internet side IP information (IP address, subnet mask, gateway IP address, DNS server address), your ISP uses a static IP connection. See **Static IP**.

D. If you access Internet via a 3G or 4G modem, see **3G/4G Router Mode**.

E. If you acquire Internet access from your WISP AP or a wireless Access Point on an existing network, see **WISP Mode**.

DHCP

- ① Select **Hotel Mode: Dynamic IP** and click **Next**.



The screenshot shows the Tenda router's configuration interface. The top navigation bar includes 'Wizard', 'Status', 'Basic', 'Wireless', 'Security', 'Advanced', and 'Tools'. The 'Wizard' tab is active. On the left, there is a sidebar with 'Wizard' highlighted. The main content area is titled 'Wizard' and contains a 'Home' button and several radio button options: 'Hotel Mode: Dynamic IP' (selected), 'Residence Mode: PPPoE', '3G/4G Router Mode: 3G/4G', 'WISP Mode: WISP', and a checked checkbox for 'Disable Auto-switch mode'. A 'Next' button is located at the bottom center. On the right, a 'Help' section provides information about Hotel Mode and Residence Mode.

- ② Configure your wireless network: SSID, channel, security settings and then click **Next**.

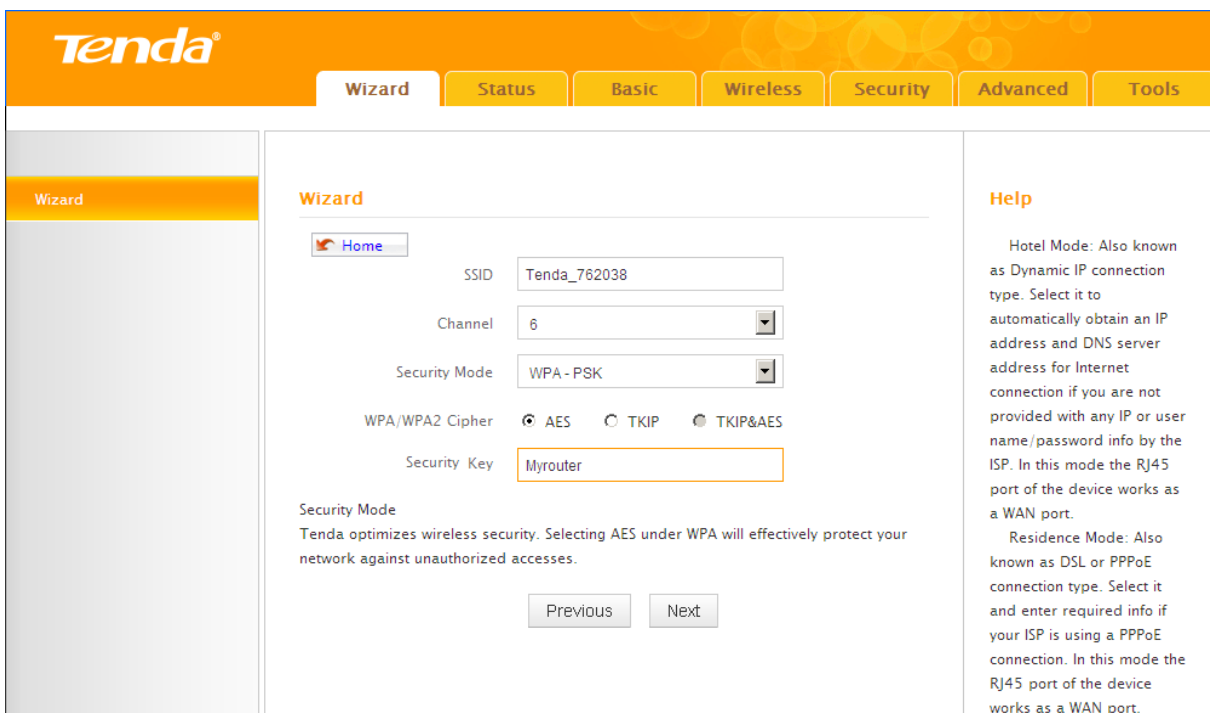
SSID: Tenda_762038

Channel: 6

Security Mode: WPA-PSK

Cipher Type: AES

Security Key: Myrouter



The screenshot shows the Tenda router's configuration interface with the 'Wireless' tab selected. The 'Wizard' sidebar is on the left. The main content area is titled 'Wizard' and contains a 'Home' button and several input fields: 'SSID' (Tenda_762038), 'Channel' (6), 'Security Mode' (WPA-PSK), 'WPA/WPA2 Cipher' (AES), and 'Security Key' (Myrouter). There are also radio buttons for 'AES', 'TKIP', and 'TKIP&AES'. A 'Next' button is located at the bottom center. On the right, a 'Help' section provides information about Hotel Mode and Residence Mode.

- ③ MAC Clone Setup: Enter the computer or broadband modem authorized by your ISP. Then click **Next**.

The screenshot shows the Tenda web interface with the 'Wizard' tab selected. The 'Config Wan MAC' section is active, displaying a 'MAC Address' field with the value '00:0C:43:76:20:38'. Below the field is an example: '(Example:c8:3a:35:3c:10:b8)'. There are two buttons: 'Clone MAC' and 'Restore Default MAC'. At the bottom are 'Previous' and 'Next' buttons. A 'Help' sidebar on the right explains Hotel Mode.

Tenda

Wizard Status Basic Wireless Security Advanced Tools

Wizard

Home

Config Wan MAC:

MAC Address 00:0C:43:76:20:38
(Example:c8:3a:35:3c:10:b8)

Clone MAC Restore Default MAC

Previous Next

Help

Hotel Mode: Also known as Dynamic IP connection type. Select it to automatically obtain an IP address and DNS server address for Internet connection if you are not provided with any IP or user name/password info by the ISP. In this mode the RJ45 port of the device works as a WAN port.

- ④ Click **Finish** and wait for the device to restart automatically. After reboot, reconnect to this device wirelessly and you will be able to access Internet.

The screenshot shows the Tenda web interface with the 'Wizard' tab selected. The 'Configurations complete' message is displayed. There are 'Previous' and 'Finish' buttons. A 'Help' sidebar on the right explains Hotel Mode.

Tenda

Wizard Status Basic Wireless Security Advanced Tools

Wizard

Home

Configurations complete

Previous Finish

Help

Hotel Mode: Also known as Dynamic IP connection type. Select it to automatically obtain an IP address and DNS server address for Internet

**Tip**

Upon successful configuration, the RJ-45 port on the device functions as a WAN port and clients must only access the device wirelessly.

PPPoE

- ① Select **Residence Mode: PPPoE** and click **Next**.

The screenshot shows the Tenda Wizard interface. The top navigation bar includes 'Wizard', 'Status', 'Basic', 'Wireless', 'Security', 'Advanced', and 'Tools'. The 'Wizard' tab is active. On the left, there is a sidebar with 'Wizard' selected. The main area is titled 'Wizard' and contains a 'Home' button and four radio button options: 'Hotel Mode: Dynamic IP', 'Residence Mode: PPPoE' (which is selected), '3G Router Mode: 3G', and 'WISP Mode: WISP'. There is also a checkbox for 'Disable Auto-switch mode'. A 'Next' button is at the bottom right. A 'Help' section on the right explains the modes: Hotel Mode is for dynamic IP, and Residence Mode is for DSL or PPPoE connections.

- ② Configure your wireless network: SSID, channel, security settings and then click **Next**.

SSID: Tenda_762038

Channel: 6

Security Mode: WPA-PSK

Cipher Type: AES

Security Key: Myrouter

The screenshot shows the Tenda Wizard interface for wireless network configuration. The top navigation bar is the same. The 'Wizard' tab is active. The main area is titled 'Wizard' and contains a 'Home' button and configuration fields: 'SSID' (Tenda_762038), 'Channel' (6), 'Security Mode' (WPA-PSK), 'WPA/WPA2 Cipher' (AES), and 'Security Key' (Myrouter). There are radio buttons for 'AES', 'TKIP', and 'TKIP&AES', with 'AES' selected. A 'Previous' button and a 'Next' button are at the bottom. A 'Help' section on the right explains the modes: Hotel Mode is for dynamic IP, and Residence Mode is for DSL or PPPoE connections.

- ③ Internet Setup & MAC Clone: Enter your ISP login user name and password (case sensitive) and the MAC address of the computer or broadband modem authorized by your ISP. Then click **Next**.

The screenshot shows the Tenda web interface with the 'Wizard' tab selected. The 'Wizard' section is active, displaying fields for 'PPPoE User Name' (ISP login name), 'PPPoE Password' (ISP login password), and 'Config Wan MAC' (MAC Address: 00:0C:43:76:20:38). There are buttons for 'Clone MAC', 'Restore Default MAC', 'Previous', and 'Next'. A 'Help' section on the right explains Hotel Mode and Residence Mode.

- ④ Click **Finish** and wait for the device to restart automatically. After reboot, reconnect to this device wirelessly and you will be able to access Internet.

The screenshot shows the Tenda web interface with the 'Wizard' tab selected. The 'Wizard' section is active, displaying the message 'Configurations complete'. There are buttons for 'Previous' and 'Finish'. A 'Help' section on the right explains Hotel Mode and Residence Mode.

**Tip**

Upon successful configuration, the RJ-45 port on the device functions as a WAN port and clients must only access the device wirelessly.

3G/4G Router Mode



Tip-----

In this mode, you only need to configure the router. No additional configurations are required on the **3G/4G** modem.

- ① Select **3G/4G Router Mode** and click **Next**.

The screenshot shows the Tenda router configuration wizard. The top navigation bar includes 'Wizard', 'Status', 'Basic', 'Wireless', 'Security', 'Advanced', and 'Tools'. The 'Wizard' tab is active. On the left, there is a sidebar with 'Wizard' selected. The main content area is titled 'Wizard' and contains a 'Home' button and several radio button options: 'Hotel Mode: Dynamic IP', 'Residence Mode: PPPoE', '3G/4G Router Mode: 3G/4G' (which is selected), and 'WISP Mode: WISP'. There is also a checked checkbox for 'Disable Auto-switch mode'. A 'Next' button is at the bottom right of the options. On the right side, there is a 'Help' section with text explaining the modes: 'Hotel Mode: Also known as Dynamic IP connection type. Select it to automatically obtain an IP address and DNS server address for Internet connection if you are not provided with any IP or user name/password info by the ISP. In this mode the RJ45 port of the device works as a WAN port.' and 'Residence Mode: Also'.

- ② Select your 3G ISP and click **Next**.

The screenshot shows the Tenda router configuration wizard at the second step. The top navigation bar and sidebar are the same. The main content area is titled 'Wizard' and contains a 'Home' button and several input fields: 'Country' (USA), 'Service Provider' (AT&T (Non-contract)), 'ISP' (empty), 'APN' (WAP.CINGULAR), 'Dial Number' (*99#), 'User Name' (WAP@CINGULARS.COM), and 'Password' (masked with dots). There are 'Previous' and 'Next' buttons at the bottom. On the right side, the 'Help' section contains text explaining the modes: 'Hotel Mode: Also known as Dynamic IP connection type. Select it to automatically obtain an IP address and DNS server address for Internet connection if you are not provided with any IP or user name/password info by the ISP. In this mode the RJ45 port of the device works as a WAN port.' and 'Residence Mode: Also known as DSL or PPPoE connection type. Select it and enter required info if your ISP is using a PPPoE connection. In this mode the RJ45 port of the device works as a WAN port.'

- ③ Configure your wireless network: SSID, channel, security settings and then click **Next**.

SSID: Tenda_762038

Channel: 6

Security Mode: WPA-PSK

Cipher Type: AES

Security Key: Myrouter

The screenshot shows the Tenda router's configuration interface. At the top, there's a navigation bar with tabs: Wizard, Status, Basic, Wireless, Security, Advanced, and Tools. The 'Wizard' tab is selected. On the left, there's a sidebar with 'Wizard' highlighted. The main area is titled 'Wizard' and contains a 'Home' button. Below it, the configuration fields are: SSID (Tenda_762038), Channel (6), Security Mode (WPA-PSK), WPA/WPA2 Cipher (AES), and Security Key (Myrouter). There are 'Previous' and 'Next' buttons at the bottom. A 'Help' section on the right explains 'Hotel Mode' and 'Residence Mode'.

- ④ Click **Finish** and wait for the device to restart automatically. After reboot, reconnect to this device wirelessly or using an Ethernet cable and you will be able to access Internet.

The screenshot shows the Tenda router's configuration interface after the wireless settings have been applied. The 'Wizard' tab is still selected. The main area now shows 'Configurations complete' and a 'Finish' button. The 'Help' section on the right remains visible.



Tip

Upon successful configuration, the RJ-45 port on the device functions as a LAN port and clients can access the device either wirelessly or via a wired connection.

WISP

- ① Select WISP Mode: **WISP** and click **Next**.

The screenshot shows the Tenda Wizard interface. The top navigation bar includes 'Wizard', 'Status', 'Basic', 'Wireless', 'Security', 'Advanced', and 'Tools'. The 'Wizard' tab is active. On the left, there is a 'Wizard' sidebar. The main content area is titled 'Wizard' and contains a 'Home' button, a list of modes with radio buttons, and a 'Next' button. The modes are: Hotel Mode: Dynamic IP, Residence Mode: PPPoE, 3G Router Mode: 3G, WISP Mode: WISP (selected), and Disable Auto-switch mode. A 'Help' section on the right provides detailed information about each mode.

Wizard

Home

☐ Hotel Mode: Dynamic IP

☐ Residence Mode: PPPoE

☐ 3G Router Mode: 3G

☒ WISP Mode: WISP

☐ Disable Auto-switch mode

Next

Help

Hotel Mode: Also known as Dynamic IP connection type. Select it to automatically obtain an IP address and DNS server address for Internet connection if you are not provided with any IP or user name/password info by the ISP. In this mode the RJ45 port of the device works as a WAN port.

Residence Mode: Also

- ② WISP Setup: Enter or specify the SSID, MAC, channel, security settings provided by your WISP and then click **Next**.

The screenshot shows the Tenda Wizard interface for the WISP Setup step. The top navigation bar is the same. The 'Wizard' tab is active. The main content area is titled 'Wizard' and contains a 'Home' button, input fields for Remote AP's SSID, Remote AP's MAC, and Remote AP's Channel, a section for selecting link AP's security mode, a 'Scan' button, and a table for selecting SSID, MAC Address, Channel, Security, and Signal Strength. The 'Next' button is at the bottom right. A 'Help' section on the right provides detailed information about each mode.

Wizard

Home

Remote AP's SSID: WISP AP

Remote AP's MAC: c8:3a:35:3c:12:b8
(Example: c8:3a:35:3c:10:b8)

Remote AP's Channel: 6

Please select link AP's security mode from below and enter its security key:

Security Mode: WPA - PSK

WPA/WPA2 Cipher: AES

Security Key: WISPAPSecurityKey

Scan

Select	SSID	MAC Address	Cha...	Security	Signal St...

Previous Next

Help

Hotel Mode: Also known as Dynamic IP connection type. Select it to automatically obtain an IP address and DNS server address for Internet connection if you are not provided with any IP or user name/password info by the ISP. In this mode the RJ45 port of the device works as a WAN port.

Residence Mode: Also known as DSL or PPPoE connection type. Select it and enter required info if your ISP is using a PPPoE connection. In this mode the RJ45 port of the device works as a WAN port.

3G Router Mode: Dials up an Internet connection using an inserted 3G network adapter.

WISP Mode: Select it when

- ③ Configure your wireless network: SSID and security settings and then click **Next**.

SSID: Tenda_762038

Security Mode: WPA-PSK

Cipher Type: AES

Security Key: Myrouter

Tenda

Wizard Status Basic Wireless Security Advanced Tools

Wizard

Home

SSID: Tenda_762038

Channel: 6

Security Mode: WPA-PSK

WPA/WPA2 Cipher: ☒ AES ☐ TKIP ☐ TKIP&AES

Security Key: Myrouter

Security Mode
Tenda optimizes wireless security. Selecting AES under WPA will effectively protect your network against unauthorized accesses.

Previous Next

Help

Hotel Mode: Also known as Dynamic IP connection type. Select it to automatically obtain an IP address and DNS server address for Internet connection if you are not provided with any IP or user name/password info by the ISP. In this mode the RJ45 port of the device works as a WAN port.

Residence Mode: Also known as DSL or PPPoE connection type. Select it and enter required info if your ISP is using a PPPoE connection. In this mode the RJ45 port of the device works as a WAN port.



Tip-----

In WISP mode, your wireless network must be set to operate on the same channel as your WISP AP.

- ④ Internet Setup: Configure the Internet connection settings and then click **Next**. If you are unsure, consult your WISP.

Tenda

Wizard Status Basic Wireless Security Advanced Tools

Wizard

Home

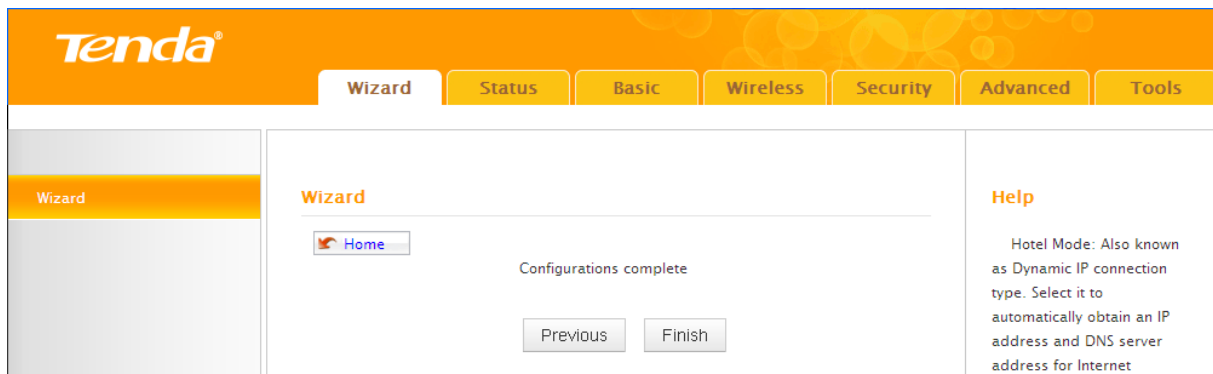
Internet Connection Type: DHCP

Previous Next

Help

Hotel Mode: Also known as Dynamic IP connection type. Select it to automatically obtain an IP address and DNS server address for Internet connection.

- ⑤ Click **Finish** and wait for the device to restart automatically. After reboot, reconnect to this device wirelessly or using an Ethernet cable and you will be able to access Internet.



Tip-----
Upon successful configuration, the RJ-45 port on the device functions as a LAN port and clients can access the device either wirelessly or via a wired connection.

III Features & Configurations

1 Status

This section includes the following:

WAN Status

LAN Status

Wireless Status

System Status

Click **Status** to enter the page.

The screenshot shows the Tenda web interface with the 'Status' tab selected. The interface has a top navigation bar with tabs: Wizard, Status, Basic, Wireless, Security, Advanced, Bandwidth Control, and Tools. The main content area is divided into three sections: a left sidebar with a 'Status' tab, a central configuration area, and a right sidebar with a 'Help' section.

WAN Status

Internet Connection Status	Disconnected
WAN IP	
Subnet Mask	
Gateway	
Primary DNS Server	
Secondary DNS Server	
Internet Connection Type	Dynamic IP
Release Renew	

LAN Status

IP Address	192.168.2.1
IP Mask	255.255.255.0
DHCP Server	Enabled
Firewall	Disabled

Wireless Status

Working Mode	WISP Mode
--------------	-----------

Help

Here you can view the WAN status, LAN status, wireless status and system status of the device.

1.1 WAN Status

WAN Status in Wireless Router Mode & WISP Mode (WISP Client Router Mode):

The screenshot shows the Tenda router's web interface. The top navigation bar includes 'Wizard', 'Status', 'Basic', 'Wireless', 'Security', 'Advanced', 'Bandwidth Control', and 'Tools'. The 'Status' page is selected, and the 'WAN Status' tab is active. The main content area displays the following information:

Internet Connection Status	Disconnected
WAN IP	
Subnet Mask	
Gateway	
Primary DNS Server	
Secondary DNS Server	
Internet Connection Type	Dynamic IP

At the bottom of the main content area, there are two buttons: 'Release' and 'Renew'. On the right side, there is a 'Help' section with the text: 'Here you can view the WAN status, LAN status, wireless status and system status of the device.'

WAN Status in 3G/4G Router Mode:

The screenshot shows the Tenda router's web interface. The top navigation bar includes 'Wizard', 'Status', 'Basic', 'Wireless', 'Security', 'Advanced', and 'Tools'. The 'Status' page is selected, and the 'WAN Status' tab is active. The main content area displays the following information:

Current Traffic	0 KB
Aggregate Traffic - Current Month	279.14 MB
Current Connection Duration	00:00:00
Connection Duration - Current Month	12:39:58
ISP	Auto

At the bottom of the main content area, there are two buttons: 'More Info' and 'Clear'. On the right side, there is a 'Help' section with the text: 'Here you can see the device's WAN status.'



Tip-----

IP Address/Subnet Mask/WAN subnet mask/Gateway/Primary DNS Server/Secondary DNS Server: This type of information appears only if the router successfully connects to Internet via a PPPoE or DHCP (dynamic IP) connection. However if you connect the router to Internet with static IP settings provided by your ISP, these fields will display the settings you entered whether the router successfully connects to the Internet or not.

If nothing appears in the secondary DNS server field, there is no available secondary DNS server.

1.2 LAN Status

LAN Status	
IP Address	192.168.2.1
IP Mask	255.255.255.0
DHCP Server	Enabled
Firewall	Disabled

1.3 Wireless Status

Wireless Status	
Working Mode	WISP Mode
Wireless	Enabled
802.11 Mode	11b/g/n mixed
Current Channel	13
SSID	Tenda_762038
Wireless Security	Disable

1.4 System Status

System Status	
System Time	2000-01-01 00:01:19
Up Time	00:01:23
Connected Clients	1
LAN MAC Address	C8:3A:35:76:20:38
WAN MAC Address	C8:3A:35:76:20:3D
Fireware Version	V1.01.02
Hardware Version	V1.0



Knowledge Center

1. **WAN MAC Address:** The device's current WAN MAC address.
2. **System Time:** Current system time on this device. The device automatically synchronizes the system time with Internet time servers.
3. **Up Time:** Displays the time duration indicating how long the router has been up since startup. Up time is recounted and renewed upon poweroff.
4. **Connected Clients:** Displays the number of DHCP clients.

2 Basic Settings

This section includes the following:

LAN Setup

WAN Setup

WAN Speed

DNS Settings

MAC Clone

DHCP Server

DHCP Client List

- To change the device's login IP address, see [**LAN Setup**](#).

- To set up Internet, see [WAN Setup](#).
- To set up speed and duplex mode for the WAN port, see [WAN Speed Setup](#).
- To configure DNS server, see [DNS Setup](#).
- To clone MAC address, see [MAC Clone](#).
- To configure DHCP server, see [DHCP Server](#).
- To assign static IP addresses and view LAN device information, see [DHCP Client List](#).

2.1 LAN Settings

Here you can configure the LAN IP Address and Subnet Mask. This IP address is to be used to access the device's settings through a web browser. Be sure to make a note of any changes you apply to this page.



Tip

1. Default IP address and subnet mask are respectively 192.168.2.1 and 255.255.255.0.
2. Be sure to make a note of any changes you apply to this page. If you change the LAN IP address of the router, you have to open a new connection to the new IP address and log in again. Also, you have to set the default gateway addresses of all LAN PCs to this new IP address.
3. The router's LAN IP address and WAN IP address cannot be on the same IP segment. If not, the router will not be able to access Internet.

Configuration Procedures:

- ① Change the IP address to the one you wish to use, for example, 192.168.10.1.
- ② Click **Save** to save your settings.

2.2 WAN Settings

Click **Basic** -> **WAN Setup** to configure your Internet connection settings.

3G/4G Router Mode

LAN Setup WAN Setup DNS Settings DHCP Server DHCP Client List	WAN Settings Network Setting Country: Albania Service Provider: Auto ISP: APN: Dial Number: Advanced PPP Settings User Name: Password: Select your connect mode: Click Save and reboot the device to activate your settings. ☒ Connect Automatically: Connect automatically to the Internet after system reboot or connection failure. ☐ Connect Manually (Require the user to manually connect to Internet before each session.) ☐ Connect On Demand: Re-establish connection to the Internet only when there is data transmitting. Max Idle Time: 60 (60-3600,second) ☐ Connect During Specified Time Period: Connect automatically to Internet during a specified time length.	Help Connect on Demand is specially recommended for those who do not need to always stay connected and want to save available volume of Internet traffic or bill. In this connection mode, a 3G connection automatically starts when there is outbound traffic to the Internet, and it automatically terminates to save your bill if there is no Internet activity.
---	--	---

Configuration Procedures:

- ① **Country:** Select your country.
- ② **Service Provider:** Select your 3G/4G ISP.
- ③ **User Name/Password:** Enter the user name and password for 3G/4G Internet service.
- ④ Click **Save**.



Knowledge Center

Connect Automatically: Connect automatically to the Internet after rebooting the system or connection failure.

Connect Manually: Require the user to manually connect to the Internet before each session.

Connect On Demand: Re-establish connection to the Internet only when there is data transmitting.

Connect During Specified Time Period: Connect automatically to the Internet during a specified time length.

Wireless Router & WISP Client Router Mode

A. Select PPPoE if your ISP uses a PPPoE connection and gives you a PPPoE user name and a PPPoE password.

B. Select Static IP if your ISP provides you with fixed or static IP address settings (special deployment by ISP; this is rare).

C. Select DHCP (Dynamic IP) if you can access Internet simply by directly connecting your computer to an Internet-enabled ADSL/Cable modem without configuring any settings.

PPPoE

The screenshot shows the Tenda router's web interface. The top navigation bar includes tabs for Wizard, Status, Basic, Wireless, Security, Advanced, Bandwidth Control, and Tools. The left sidebar lists various setup options: LAN Setup, WAN Setup (highlighted), WAN Speed, DNS Settings, MAC Clone, DHCP Server, and DHCP Client List. The main content area is titled 'WAN Settings' and contains the following fields:

- Internet Connection Type:** A dropdown menu with 'PPPOE' selected.
- User Name:** An empty text input field.
- Password:** An empty text input field.
- MTU:** A text input field containing '1480'. Below it, a note reads: '(Leave the default of 1480 unchanged unless otherwise required by ISP)'.
- Service Description:** An empty text input field. Below it, a note reads: '(Leave blank unless otherwise required by ISP)'.
- Server Name:** An empty text input field. Below it, a note reads: '(Leave blank unless otherwise required by ISP)'.

At the bottom of the form are 'Save' and 'Cancel' buttons. On the right side, there is a 'Help' section with the following text:

Static IP: Select Static IP if your ISP provided you all the connection info: IP address, subnet mask, gateway address, and DNS address (es) and enter them in corresponding fields. Contact your ISP if you need any help.

DHCP: Also known as Dynamic IP connection type. Select it to automatically obtain an IP address and DNS server address for Internet connection if you are not provided with any IP or user name/password info by the ISP.

PPPoE: Select PPPoE (Point to Point Protocol over Ethernet) if your ISP uses a

Configuration Procedures:

- ① **Internet Connection Type:** Select PPPoE.
- ② **ISP Username:** Enter the ISP login name.
- ③ **ISP Password:** Enter the ISP login password.
- ④ Click **Save** to save your settings.



Knowledge Center

1. MTU: The MTU (maximum transmission unit) is the largest data packet a network device transmits. The normal MTU value for most Ethernet networks is 1500 bytes, or 1492 bytes for PPPoE connections. 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. For more information, see [WAN MTU Setup](#).

2. Service Name: This is the descriptive name of the current connection. Only enter it if your ISP provides it.

3. **Server Name:** This is the descriptive name of the server. Only enter it if your ISP provides it.

Static IP

The screenshot shows the Tenda router's web interface. The top navigation bar includes tabs for Wizard, Status, Basic, Wireless, Security, Advanced, Bandwidth Control, and Tools. The left sidebar lists LAN Setup, WAN Setup (highlighted), WAN Speed, DNS Settings, MAC Clone, DHCP Server, and DHCP Client List. The main content area is titled 'WAN Settings' and contains the following fields:

- Internet Connection Type: Static IP (selected from a dropdown)
- IP Address: 182.63.88.5
- Subnet Mask: 255.255.255.0
- Gateway: 182.63.88.1
- Primary DNS Address: 202.96.134.33
- Secondary DNS Address: 8.8.8.8 (Optional)
- MTU: 1500 (with a note: 'Leave the default of 1500 unchanged unless otherwise required by ISP')

At the bottom of the form are 'Save' and 'Cancel' buttons. On the right side, there is a 'Help' section with the following text:

Static IP: Select Static IP if your ISP provided you all the connection info: IP address, subnet mask, gateway address, and DNS address (es) and enter them in corresponding fields. Contact your ISP if you need any help.

DHCP: Also known as Dynamic IP connection type. Select it to automatically obtain an IP address and DNS server address for Internet connection if you are not provided with any IP or user name/password info by the ISP.

PPPoE: Select PPPoE (Point to Point Protocol over

Configuration Procedures:

- ① **Internet Connection Type:** Select Static IP.
- ② **IP Address/Subnet Mask/WAN subnet mask/Gateway/Primary DNS Server/Secondary DNS Server:** Enter the ISP information you gathered in **1GettingPrepared**.
- ③ Click **Save** to save your settings.

DHCP

The screenshot shows the Tenda router's configuration interface. The top navigation bar includes tabs for Wizard, Status, Basic, Wireless, Security, Advanced, Bandwidth Control, and Tools. The left sidebar lists various setup options: LAN Setup, WAN Setup (highlighted), WAN Speed, DNS Settings, MAC Clone, DHCP Server, and DHCP Client List. The main content area is titled 'WAN Settings' and contains the following fields:

- Internet Connection Type:** A dropdown menu currently set to 'DHCP'.
- MTU:** A text input field containing the value '1500'. Below this field is a note: '(Leave the default of 1500 unchanged unless otherwise required by ISP)'.

At the bottom of the settings area are 'Save' and 'Cancel' buttons. On the right side, there is a 'Help' section with the following text:

Help

Static IP: Select Static IP if your ISP provided you all the connection info: IP address, subnet mask, gateway address, and DNS address (es) and enter them in corresponding fields. Contact your ISP if you need any help.

DHCP: Also known as

Configuration Procedures:

- ① **Internet Connection Type:** Select DHCP.
- ② Click **Save** to save your settings.

WAN MTU Setup

The MTU (maximum transmission unit) is the largest data packet a network device transmits. The normal MTU value for most Ethernet networks is 1500 bytes, or 1492 bytes for PPPoE connections. 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. When one network device communicates across the Internet with another, the data packets travel through many devices along the way. If a device in the data path has a smaller MTU value than the other devices, the data packets have to be "fragmented" to accommodate the device with the smallest MTU value.

The best MTU value is often just the factory default value. In some situations, changing the MTU value fixes one problem but causes another. Leave the MTU unchanged unless one of these situations occurs:

- A.** You have problems connecting to your ISP or other Internet service, and either your ISP or our technical support suggests changing the MTU value. Below web-based applications might require an MTU change:

- A secure website that does not open, or displays only part of a web page
- Yahoo email
- MSN portal

B. You use VPN and encounter serious performance problems.

C. You used a program to optimize MTU for performance reasons, and now you have connectivity or performance problems.

If you suspect an MTU

problem, try changing the MTU to 1400. If this does not help, gradually reduce the MTU from the maximum value of 1500 until the problem disappears.

The common MTU sizes and applications are listed in the table below.

MTU	Application
1500	Typical for connections that do not use PPPoE or VPN.
1492	Used in PPPoE environments.
1472	Maximum size to use for pinging. (Larger packets are fragmented.)
1468	Used in some DHCP environments.
1436	Used in PPTP environments or with VPN.



Note -----

A wrong/improper MTU value may cause Internet communication problems. For example, you may be unable to access certain websites, frames within websites, secure login pages, or FTP or POP servers.

2.3 WAN Speed

Click **Basic** -> **WAN Speed** to the configuration interface. Here you can configure the WAN speed and duplex mode.



Tip -----

1. The router operates in "Auto-negotiation" (or Auto) mode by default. Usually, it works for most cases.

In some situations, you might need to change the port mode. For example, if the cable connected to your router's WAN port is longer than 100m, you may need to use 10M full-duplex or 10M half-duplex for better performance. Ensure that your router's WAN port operates with the same speed and duplex mode as the remote link partner. If not, your router's WAN port may not receive and send data.

2.4 DNS Settings

Click **Basic** -> **DNS Settings** to enter the DNS configuration interface.

Tenda

Wizard Status **Basic** Wireless Security Advanced Bandwidth Control Tools

LAN Setup
WAN Setup
WAN Speed
DNS Settings
MAC Clone
DHCP Server
DHCP Client List

DNS Settings

DNS Settings ☒

Primary DNS Address 202.96.134.33

Secondary DNS Address 202.96.128.68

Save Cancel

Help

DNS server translates or resolves domain names into IP addresses. To manually configure the DNS server addresses, check the Set DNS Manually box; to obtain DNS server IP addresses from your ISP automatically, leave the same box unchecked.

If the DNS IP Addresses entered are incorrect, web pages will not be able to open. Thus it is advisable not to change the default settings here.

Configuration Procedures:

- ① **DNS Settings:** Check to enable the DNS settings.
- ② **Primary DNS Server:** Enter the IP address of your ISP's primary DNS server.
- ③ **Secondary DNS Address:** If a secondary DNS server address is available, enter it here. This field is optional.
- ④ Click **Save** to save your settings.



Note -----

The default DNS settings are recommended. Only change the DNS default settings if you know that your ISP requires specific servers. If incorrect DNS settings are configured, webpages will be unable to open.

2.5 MAC Clone

Some ISPs (Internet Service Providers) require end-user's MAC address to access their network. This feature copies your current PC's MAC address to the router. Click **Basic -> MAC Clone** to enter the MAC Clone screen.

MAC Clone

MAC Address: C8 : 3A : 35 : 76 : 20 : 3D

Restore Default MAC Clone MAC

Save Cancel

Help

WAN MAC Address: The device's WAN MAC address seen from the Internet side by your ISP. Normally you don't need to change its default value. Normally you don't need to change the default WAN MAC value. However, some ISPs may require the client PC's MAC address for Internet connection authentication. In this case, simply enter the correct MAC address or click the "Clone MAC" button and then save your settings.

Clone MAC: Click to copy your PC's MAC address to the device.



Knowledge Centre-----

1. **Restore Default MAC:** Reset the router's WAN MAC to factory default.
2. **Clone MAC:** Clicking this button copies the MAC address of the computer that you are now using to the router. Also, you can manually enter the MAC address that you want to use. You have to use the computer whose MAC address is allowed by your ISP.

To restore default MAC address:

- ① Click **Restore Default MAC**.
- ② Click **Save** to save your settings.

To clone the MAC address of the computer that you are now using to the router:

- ① Click **Clone MAC**.
- ② Click **Save** to save your settings.

To manually enter the MAC address allowed by your ISP:

- ① Enter the MAC address allowed by your ISP.

- ② Click **Save** to save your settings.

2.6. DHCP

DHCP (Dynamic Host Configuration Protocol) assigns an IP address to each device on the LAN/private network. When you enable the DHCP Server, the DHCP Server will automatically allocate an unused IP address from the IP address pool specified in this screen to the requesting device as long as the device is set to "Obtain an IP Address Automatically". If you disable this feature, you have to manually configure the TCP/IP settings for all PCs on your LAN to access Internet.

Click **Basic -> DHCP Server** to enter the **DHCP Server** screen. Here you can change the DHCP IP address pool and lease time.

Tenda

Wizard Status **Basic** Wireless Security Advanced Bandwidth Control Tools

LAN Setup
WAN Setup
WAN Speed
DNS Settings
MAC Clone
DHCP Server
DHCP Client List

DHCP Server

DHCP Server ☒ Enable

Start IP 192.168.2. 100

End IP 192.168.2. 250

Lease Time One Day

Save Cancel

Help

The Dynamic Host Configuration Protocol (DHCP) is an automatic configuration protocol used on IP networks. If you enable the built-in DHCP server on the router, it will automatically configure the TCP/IP protocol settings for all PC's in the LAN, including IP address, subnet mask, gateway, and DNS.

Start IP: Enter the starting IP address for the DHCP server's IP assignment.

End IP: Enter the ending IP address for the DHCP server's IP assignment.

Lease Time: The lease time is a time length that the IP address is assigned to each device before it is refreshed.

Configuration Procedures:

- ① **DHCP Server:** Select whether to enable or disable the DHCP server feature.
- ② **Start IP/End IP:** You can specify the starting and ending address of the IP address pool here. These addresses should be part of the same IP address subnet as the router's LAN IP address.

③ **Lease Time:** The lease time is a time length that the IP address is assigned to each device before it is refreshed.

④ Click **Save** to save your settings.



Tip

By default, the router functions as a DHCP server. Do not disable the DHCP server feature unless you want to manually configure the TCP/IP settings for all PCs on your LAN.

1. Lease time will be renewed automatically upon expiry. No additional configurations are needed.
2. If you are not an advanced user, the default DHCP server settings are recommended.

2.7 DHCP Client List

Click **Basic -> DHCP Client List**. Here you can view the DHCP dynamic client list, which includes host name, IP address, MAC address, and lease time information.

The screenshot shows the Tenda router's web interface. The top navigation bar includes tabs for Wizard, Status, Basic, Wireless, Security, Advanced, Bandwidth Control, and Tools. The left sidebar lists various settings: LAN Setup, WAN Setup, WAN Speed, DNS Settings, MAC Clone, DHCP Server, and DHCP Client List (which is highlighted). The main content area is divided into three sections:

- Static Assignment:** Contains input fields for IP Address (192.168.2.) and MAC Address, followed by an 'Add' button.
- DHCP Client List:** Features a 'Refresh' button and a table displaying the current DHCP client list.
- Help:** Provides instructions on how to use the DHCP Client List feature, including a note about activating new settings.

At the bottom of the DHCP Client List section, there are 'Save' and 'Cancel' buttons.

Index	IP Address	MAC Address	Delete
DHCP Client List			
Refresh			
Host Name	IP Address	MAC Address	Lease Time
INVE-20130508IP	192.168.2.100	C8:9C:DC:3B:AC:89	23:59:29



Tip

You can know whether there are unauthorized accesses by viewing the client list.

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

Static Assignment Application Example:

To have a PC at the MAC address of 44:37:E6:4F:37:3B always receive the same IP address of