

Tenda

User Guide

www.tendacn.com



4G600



4G630

3G/4G Wireless N150/N300 Router

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About this Manual

Thank you for choosing Tenda! Before you start, please read this User Guide, which instructs you to install and configure your device. This User Guide is applicable to 4G600 and 4G630. Unless otherwise specified, the 4G630 is used as an example throughout this User Guide.

Convention

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)
 - (064) 800787922 (New Zealand) (0852) 36120883 (Hong Kong)

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I Product Overview

1 Package Contents

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

- 3G/4G Wireless Router
- Ethernet Cable
- Power Adapter
- 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 Device

2.1 What It Looks like



4G630

4G600

2.2 LED



LED	Status	Description
PWR	Solid	The device is receiving electric power.
SYS	Blinking	System is starting up properly.
WPS	Blinking	The device is functioning properly.

WAN/LAN/WiFi	Blinking	The WAN/LAN /WLAN interface is transmitting data.
	Solid	The WAN/LAN interface is connected correctly. The WiFi radio is on.
USB	Solid	The USB port is connected correctly.
	/	This icon indicates no actual meaning. It is only for decoration.

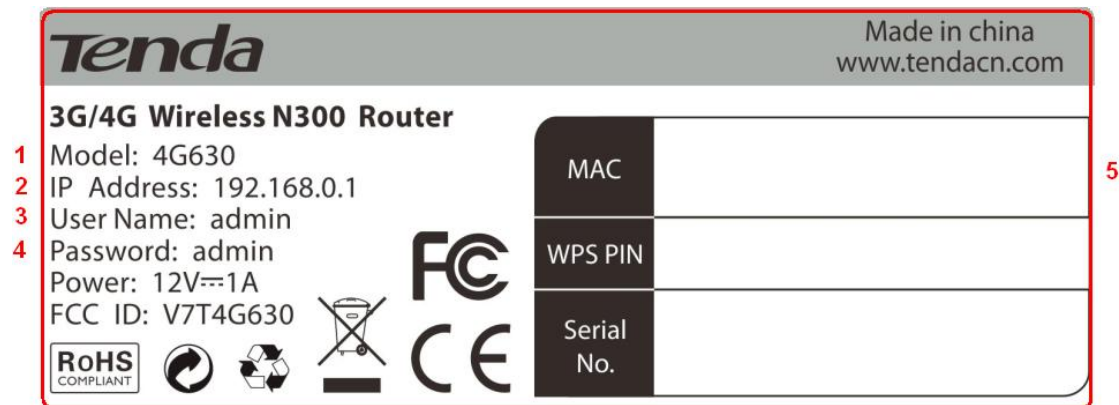
2.3 Button & Interface



Button/Interface	Description
USB	USB port for attaching a 3G/4G USB Modem
WPS/Reset	Pressing this button for over 6 seconds resets the device to factory default settings or 1-3 seconds to enable WPS quick encryption.
WAN	Internet port for cabling the device to the Internet side
LAN1/2/3	Local (LAN) Ethernet ports for cabling the device to

	local computers, switches, etc.
POWER	Power port for connecting the device to a power outlet

2.4 Label



1→Product Model

2→Default Login IP address

This IP address is to be used to access the device's settings through a Web browser.

3/4→Default login user name/password

This information is to be used for web access authentication.

5→Device's physical address

II Quick Setup

1 Hardware Install

You can either connect to the device wirelessly or using Ethernet cables. Select an install method according to your network environment.

- A. If you access the Internet via a 3G/4G USB modem, see **3G/4G Router Mode**.
- B. If you access the Internet by connecting the device to the Ethernet cable from the incoming Internet side, see **Wireless Router Mode**.
- C. If you acquire Internet access from a remote AP on an existing network, see **Universal Repeater Mode**.

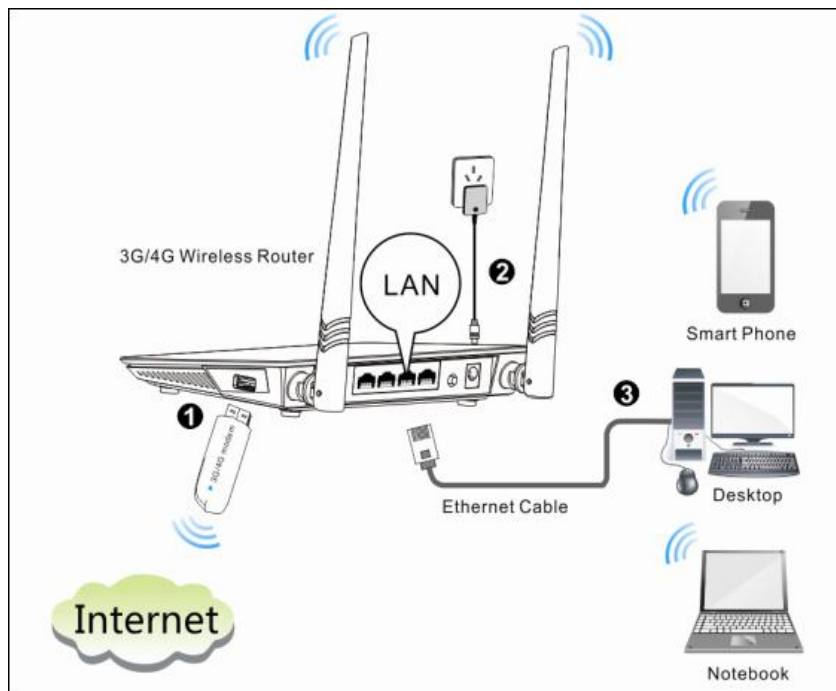
Note

- ① DO NOT expose the device to heat sources.
 - ② Disconnect the device from power supply in thunderstorm weather.
 - ③ Keep the device away from electrical appliances (such as electromagnetic cooker and cordless phone, etc.) to avoid electromagnetic interference.
-
-

3G/4G Router Mode

By connecting an activated 3G/4G USB modem to your device and it gives you the freedom to roam while staying connected to the Internet.

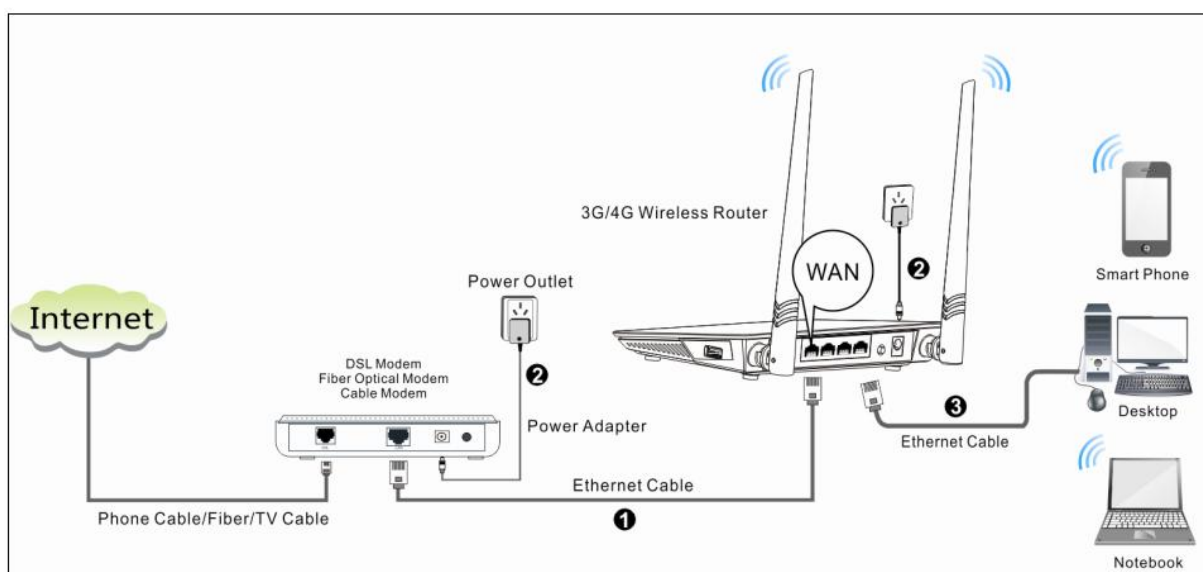
- ① Insert a 3G/4G USB modem to the device.
- ② Connect the device to a power outlet.
- ③ Connect your desktop, notebook and smart phone, etc. to the device.



Wireless Router Mode

In this mode, your device functions as a common wireless router. Simply connect it to an Internet-enabled DSL/fiber optical/cable modem.

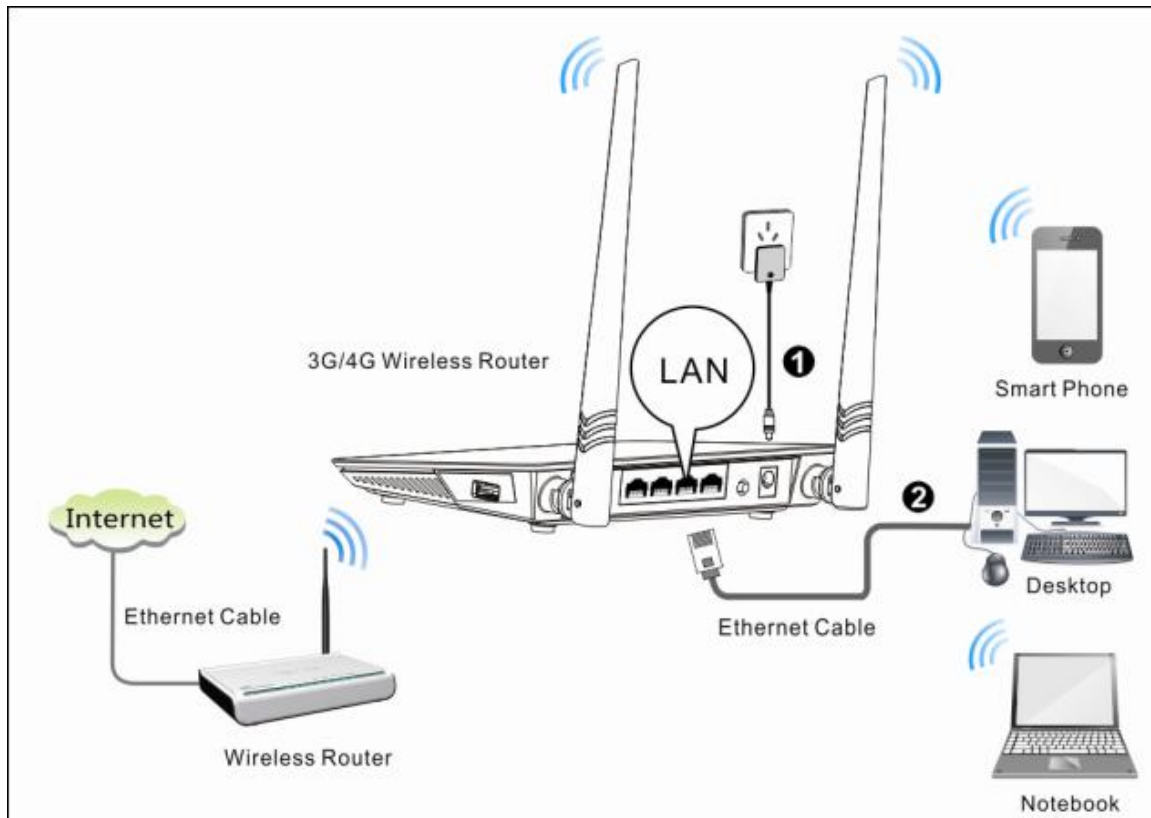
- ① Connect the WAN port of the device to an Internet-enabled DSL/fiber optical/cable modem.
- ② Connect the modem and the device to a power outlet.
- ③ Connect your desktop, notebook and smart phone to the device.



Universal Repeater Mode

The universal repeater feature can be used to extend your existing wireless network coverage.

- ① Connect the device to a power outlet.
- ② Connect your desktop, notebook and smart phone to the device.



Tip

- ① To scan and connect to a remote wireless device see [Universal Repeater Mode](#) in **4 Quick Internet Setup & Wireless Security Setup**.
- ② To connect the device wirelessly, see [2 Join Your Wireless Network](#).

2 Configure Your PC

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. See **1 Configure Your PC**.

3 Web Login

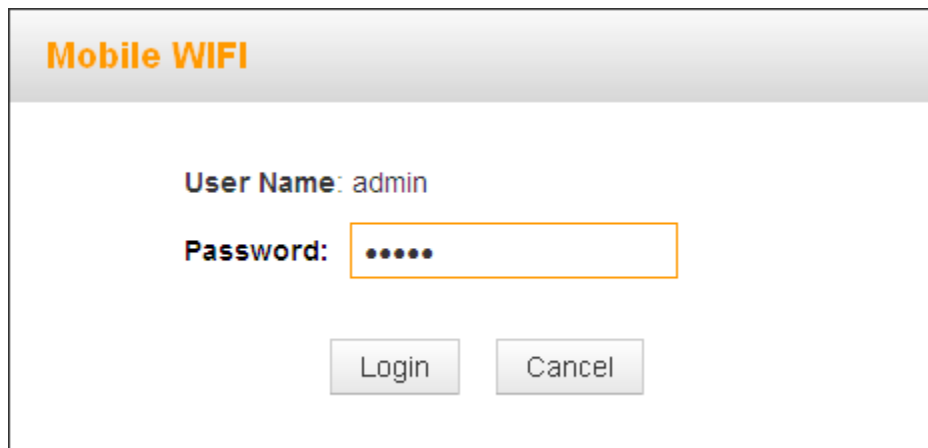
- ① Launch a Web browser, say, **IE**.



- ② In the address bar, input the device's LAN IP address (**192.168.0.1** by default), and press **Enter**.



- ③ Enter the login password (**admin** by default) and click **Login**.

The image shows a login form titled 'Mobile WIFI'. It has two input fields: 'User Name' with the value 'admin' and 'Password' with five dots. Below the fields are two buttons: 'Login' and 'Cancel'.

- ④ The **Status** screen appears. Click **Wizard** to enter the setup wizard interface.

Tenda®

Wizard

Status

Basic

Wireless

Advanced

Tools

Status

3G/4G Traffic Statistics

WAN Status

Internet Connection Status3G/4G USB modem not attached

WAN IP0.0.0.0

Subnet Mask0.0.0.0

Gateway0.0.0.0

Primary DNS Server0.0.0.0

Secondary DNS Server0.0.0.0

Internet Connection Type3G/4G

Connect

Disconnect

LAN Status

IP Address192.168.0.1

Subnet Mask255.255.255.0

DHCP ServerEnabled

Wireless Status

Wireless RadioEnabled

SSIDTenda_38DDC9

Help

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

Tenda®

Wizard

Status

Basic

Wireless

Advanced

Tools

Wizard

Wizard

Home

Wireless Router Mode

3G/4G Router Mode

Universal Repeater Mode

Auto-switch System Mode

3G/4G Priority

Ethernet Priority

Next

Help

3G/4G Router Mode: In this mode, the router acquires Internet access through an activated 3G/4G USB modem which is attached to its USB port. Wired WAN access is disabled.
Wireless Router Mode: In this mode, the router acquires Internet access through a wired WAN port. 3G/4G access is disabled.
Universal Repeater: Also known as Client plus AP Mode. In this mode the router

4 Quick Internet Setup & Wireless Security Setup

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

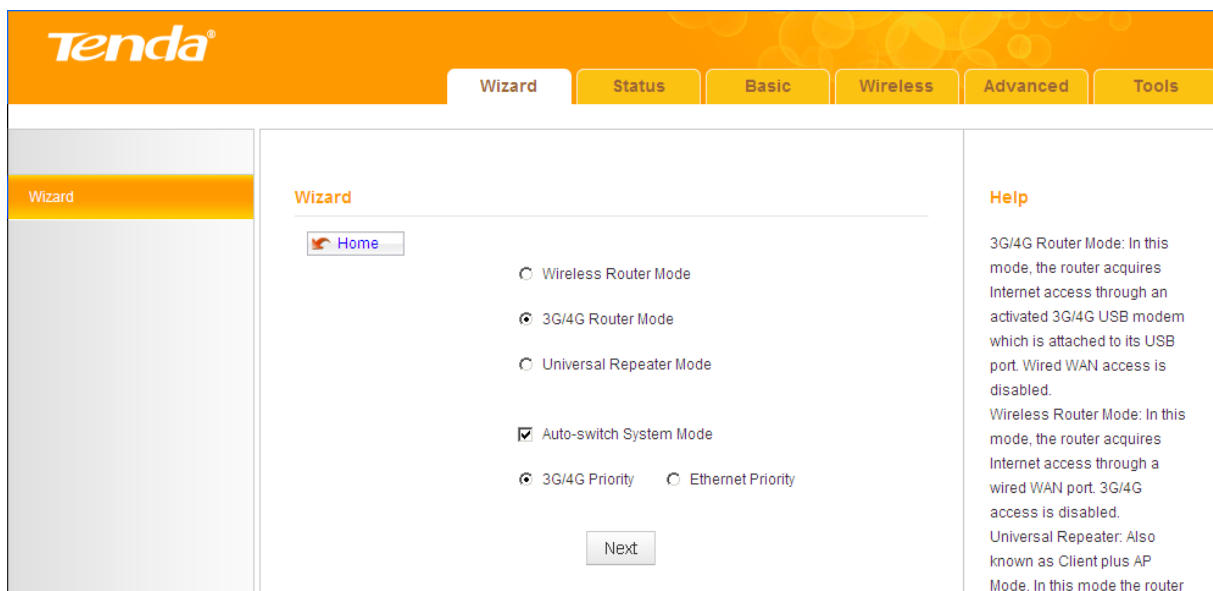
A. If you access the Internet via a 3G/4G USB modem, see **3G/4G Router**

Mode.

- B.** If your ISP provides you with a cable from the incoming Internet side but no ISP login account or IP information, your ISP uses a DHCP connection. See **Wireless Router Mode – DHCP.**
- C.** If your ISP provides you with a cable from the incoming Internet side and a PPPoE login account, your ISP uses a PPPoE connection. See **Wireless Router Mode – PPPoE.**
- D.** If you acquire Internet access from a remote AP on an existing network, see **Universal Repeater Mode.**
- E.** To learn about the **Auto-switch System Mode, 3G/4G Priority** and/or **Ethernet Priority**, see **Auto-switch System Mode & Priority.**

3G/4G Router Mode

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



- ② Configure 3G/ 4G Internet connection settings and then click **Next**. If you are not sure of which service provider to use, select **Auto**.

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Wizard Status Basic Wireless Advanced Tools

Wizard

Home

Country: UK

Service Provider: Vodafone UK

ISP: Vodafone UK

APN: Internet

Dial Number: *99#

User Name: web

Password: ...

Previous Next

Help

3G/4G Router Mode: In this mode, the router acquires Internet access through an activated 3G/4G USB modem which is attached to its USB port. Wired WAN access is disabled.

Wireless Router Mode: In this mode, the router acquires Internet access through a wired WAN port. 3G/4G access is disabled.

Universal Repeater: Also known as Client plus AP Mode. In this mode the router acquires Internet access from a remote wireless device and provides access to clients in the meantime.

- ③ Configure your wireless network: **SSID**, **Channel**, **Key** and then click **Next**.

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Wizard Status Basic Wireless Advanced Tools

Wizard

Home

SSID: Tenda_38DDC9

Channel: Auto

Key: 12345678

Security Mode

Tenda optimizes wireless security. Default AES under WPA2-PSK will effectively protect your network against unauthorized accesses. If this field is left blank, your wireless network is not secured.

Previous Next

Help

3G/4G Router Mode: In this mode, the router acquires Internet access through an activated 3G/4G USB modem which is attached to its USB port. Wired WAN access is disabled.

Wireless Router Mode: In this mode, the router acquires Internet access through a wired WAN port. 3G/4G access is disabled.

Universal Repeater: Also known as Client plus AP Mode. In this mode the router acquires Internet access from a remote wireless device and provides access to clients in the meantime.

- ④ Click **Finish** and wait for the device to restart.

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Wizard Status Basic Wireless Advanced Tools

Wizard

Home

Configurations complete

Previous Finish

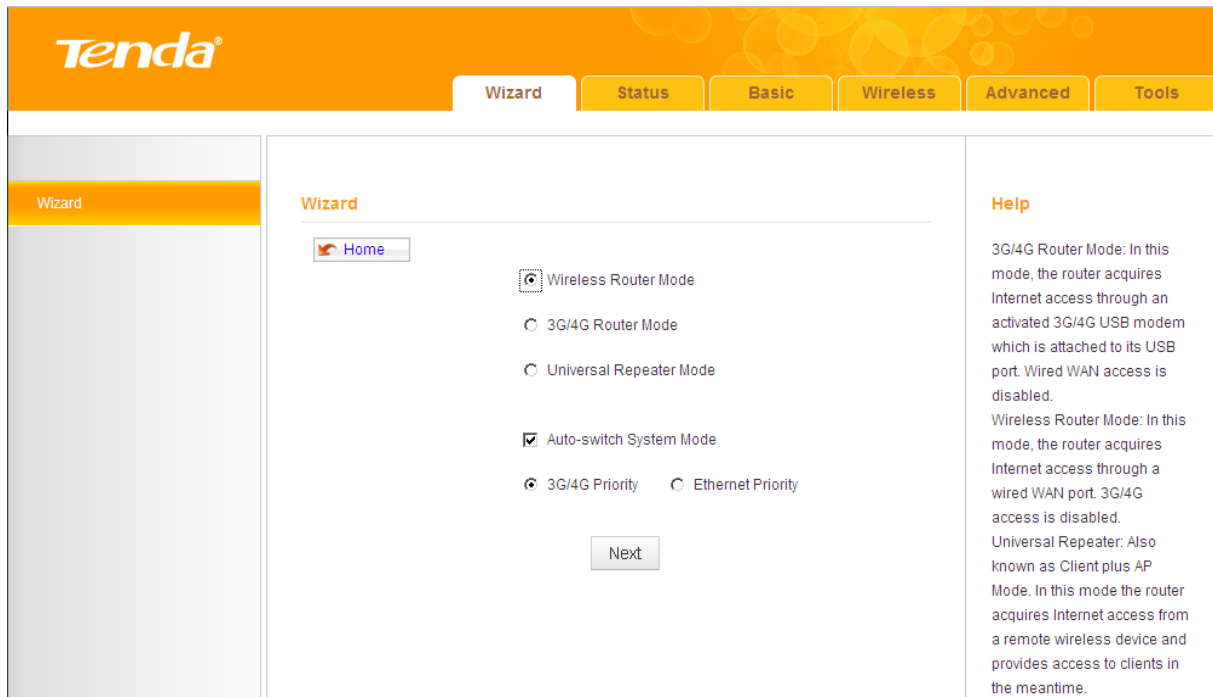
Help

3G/4G Router Mode: In this mode, the router will try 3G/4G access only. WAN access is disabled.

Wireless Router Mode: In this mode, the router will try WAN access only. 3G/4G access is disabled.

Wireless Router Mode – DHCP

- ① Select **Wireless Router Mode** and click **Next**.



The screenshot shows the Tenda router's configuration interface. The top navigation bar includes 'Wizard', 'Status', 'Basic', 'Wireless', '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. Below it, there are three radio button options: 'Wireless Router Mode' (selected), '3G/4G Router Mode', and 'Universal Repeater Mode'. There is also a checked checkbox for 'Auto-switch System Mode'. Below these, there are two radio button options: '3G/4G Priority' (selected) and 'Ethernet Priority'. A 'Next' button is located at the bottom right of the main content area. On the right side, there is a 'Help' section with text explaining the different modes.

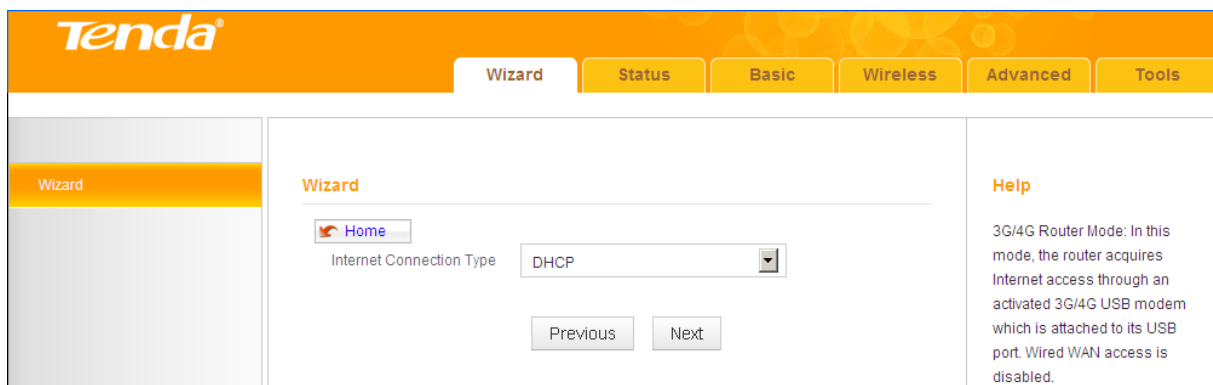
Help

3G/4G Router Mode: In this mode, the router acquires Internet access through an activated 3G/4G USB modem which is attached to its USB port. Wired WAN access is disabled.

Wireless Router Mode: In this mode, the router acquires Internet access through a wired WAN port. 3G/4G access is disabled.

Universal Repeater: Also known as Client plus AP Mode. In this mode the router acquires Internet access from a remote wireless device and provides access to clients in the meantime.

- ② Select **DHCP** and click **Next**.



The screenshot shows the Tenda router's configuration interface. The top navigation bar includes 'Wizard', 'Status', 'Basic', 'Wireless', '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. Below it, there is a label 'Internet Connection Type' and a dropdown menu showing 'DHCP'. Below the dropdown, there are 'Previous' and 'Next' buttons. On the right side, there is a 'Help' section with text explaining the different modes.

Help

3G/4G Router Mode: In this mode, the router acquires Internet access through an activated 3G/4G USB modem which is attached to its USB port. Wired WAN access is disabled.

- ③ Configure your wireless network: **SSID**, **Channel**, **Key** and then click **Next**.

Tenda®

Wizard Status Basic Wireless Advanced Tools

Wizard

Wizard

[Home](#)

SSID: Tenda_38DDC9

Channel: Auto

Key: 12345678

Security Mode
Tenda optimizes wireless security. Default AES under WPA2-PSK will effectively protect your network against unauthorized accesses.

Previous Next

Help

3G/4G Router Mode: In this mode, the router will try 3G/4G access only. WAN access is disabled.

Wireless Router Mode: In this mode, the router will try WAN access only. 3G/4G access is disabled.

3G/4G Router Mode: Dials up an Internet connection using an inserted 3G/4G network adapter.

Universal Repeater: This is the Client plus AP Mode. In this mode the router acquires

- ④ Click **Finish** and wait for the device to restart.

Tenda®

Wizard Status Basic Wireless Advanced Tools

Wizard

Wizard

[Home](#)

Configurations complete

Previous Finish

Help

3G/4G Router Mode: In this mode, the router will try 3G/4G access only. WAN access is disabled.

Wireless Router Mode: In this mode, the router will try WAN access only. 3G/4G access is disabled.

Wireless Router Mode – PPPoE

- ① Select **Wireless Router Mode** and click **Next**.

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Wizard Status Basic Wireless Advanced Tools

Wizard

Home

☒ Wireless Router Mode
☐ 3G/4G Router Mode
☐ Universal Repeater Mode

☒ Auto-switch System Mode

☒ 3G/4G Priority ☐ Ethernet Priority

Next

Help

3G/4G Router Mode: In this mode, the router acquires Internet access through an activated 3G/4G USB modem which is attached to its USB port. Wired WAN access is disabled.

Wireless Router Mode: In this mode, the router acquires Internet access through a wired WAN port. 3G/4G access is disabled.

Universal Repeater: Also known as Client plus AP Mode. In this mode the router acquires Internet access from a remote wireless device and provides access to clients in the meantime.

- ② Select **PPPoE**, enter the **PPPoE User Name/Password** and click **Next**.

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Wizard Status Basic Wireless Advanced Tools

Wizard

Home

Internet Connection Type: PPPOE

PPPoE User Name:

PPPoE Password:

Previous Next

Help

3G/4G Router Mode: In this mode, the router acquires Internet access through an activated 3G/4G USB modem which is attached to its USB port. Wired WAN access is disabled.

Wireless Router Mode: In this mode, the router acquires Internet access through a wired WAN port. 3G/4G access is disabled.

Universal Repeater: Also known as Client plus AP Mode. In this mode the router acquires Internet access from a remote wireless device and provides access to clients in the meantime.

- ③ Configure your wireless network: **SSID**, **Channel**, **Key** and then click **Next**.

Tenda

Wizard Status Basic Wireless Advanced Tools

Wizard

Wizard

Home

SSID Tenda_38DDC9

Channel Auto

Key 12345678

Security Mode

Tenda optimizes wireless security. Default AES under WPA2-PSK will effectively protect your network against unauthorized accesses. If this field is left blank, your wireless network is not secured.

Previous Next

Help

3G/4G Router Mode: In this mode, the router acquires Internet access through an activated 3G/4G USB modem which is attached to its USB port. Wired WAN access is disabled.

Wireless Router Mode: In this mode, the router acquires Internet access through a wired WAN port. 3G/4G access is disabled.

Universal Repeater: Also known as Client plus AP Mode. In this mode the router acquires Internet access from a remote wireless device and provides access to clients in the meantime.

- ④ Click **Finish** and wait for the device to restart.

Tenda

Wizard Status Basic Wireless Advanced Tools

Wizard

Wizard

Home

Configurations complete

Previous Finish

Help

3G/4G Router Mode: In this mode, the router will try 3G/4G access only. WAN access is disabled.

Wireless Router Mode: In this mode, the router will try WAN access only. 3G/4G access is disabled.



Tip

Five Internet connection types are supported for the wired WAN connection (Ethernet): DHCP, PPPOE, PPTP, L2TP and Static IP. For PPTP, L2TP and Static IP, see **2.2 WAN Settings**.

Universal Repeater Mode

- ① Select **Universal Repeater Mode** and click **Next**.

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Wizard Status Basic Wireless Advanced Tools

Wizard

Home

☐ Wireless Router Mode
☐ 3G/4G Router Mode
☒ Universal Repeater Mode
☐ Auto-switch System Mode
☒ 3G/4G Priority ☒ Ethernet Priority

Next

Help

3G/4G Router Mode: In this mode, the router acquires Internet access through an activated 3G/4G USB modem which is attached to its USB port. Wired WAN access is disabled.

Wireless Router Mode: In this mode, the router acquires Internet access through a wired WAN port. 3G/4G access is disabled.

Universal Repeater: Also known as Client plus AP Mode. In this mode the router acquires Internet access from a remote wireless device and provides access to clients in the meantime.

② Enter or select the **SSID**, **MAC**, **Channel** and security settings exactly the same as the remote AP and then click **Next**.

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Wizard Status Basic Wireless

Wizard

Home

Remote AP's SSID: Tenda_C8DA50

Remote AP's MAC: C8:3A:35:80:80:80
(Example:c8:3a:35:3c:10:b8)

Remote AP's Channel: 1

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

Security Mode: WPA - PSK

Cipher Type: AES

Security Key: 12345678

Clear

Select	SSID	MAC Address	Cha...	Security	Signal St...
☒	Tenda_C8DA50	C8:3A:35:80:80:80	1	WPA/AES	59

③ Configure your wireless network: **SSID** and **Key** and then click **Next**.

Tenda

Wizard Status Basic Wireless Advanced Tools

Wizard

Wizard

[Home](#)

SSID: Tenda_38DDC9

Channel: 1

Key: 12345678

Security Mode
Tenda optimizes wireless security. Default AES under WPA2-PSK will effectively protect your network against unauthorized accesses. If this field is left blank, your wireless network is not secured.

Previous Next

Help

3G/4G Router Mode: In this mode, the router acquires Internet access through an activated 3G/4G USB modem which is attached to its USB port. Wired WAN access is disabled.

Wireless Router Mode: In this mode, the router acquires Internet access through a wired WAN port. 3G/4G access is disabled.

Universal Repeater: Also known as Client plus AP Mode. In this mode the router acquires Internet access from a remote wireless device and provides access to clients in the meantime.

- ④ Click **Finish** and wait for the device to restart.

Tenda

Wizard Status Basic Wireless Advanced Tools

Wizard

Wizard

[Home](#)

Configurations complete

Previous Finish

Help

3G/4G Router Mode: In this mode, the router will try 3G/4G access only. WAN access is disabled.

Wireless Router Mode: In this mode, the router will try WAN access only. 3G/4G access is disabled.



Tip

In **Universal Repeater Mode**, your wireless network must operate on the same channel as the remote AP.

Auto-switch System Mode & Priority

Auto-switch System Mode: If unchecked, system will not switch between the **3G/4G Router Mode** and **Wireless Router Mode**.

If the **Auto-switch System Mode** and **3G/4G Priority** are selected, system will:

- prioritize the **3G/4G Router Mode** when detecting the coexistence of an

Ethernet cable and a 3G/4G USB modem.

- operate in the **3G/4G Router Mode** when only detecting a 3G/4G USB modem.
- toggle to the **Wireless Router Mode** when only detecting an Ethernet cable.

If the Auto-switch System Mode and Ethernet Priority are selected, system will:

- prioritize the **Wireless Router Mode** when detecting the coexistence of an Ethernet cable and a 3G/4G USB modem.
- toggle to the **3G/4G Router Mode** when only detecting a 3G/4G USB modem.
- operate in the **Wireless Router Mode** when only detecting an Ethernet cable.

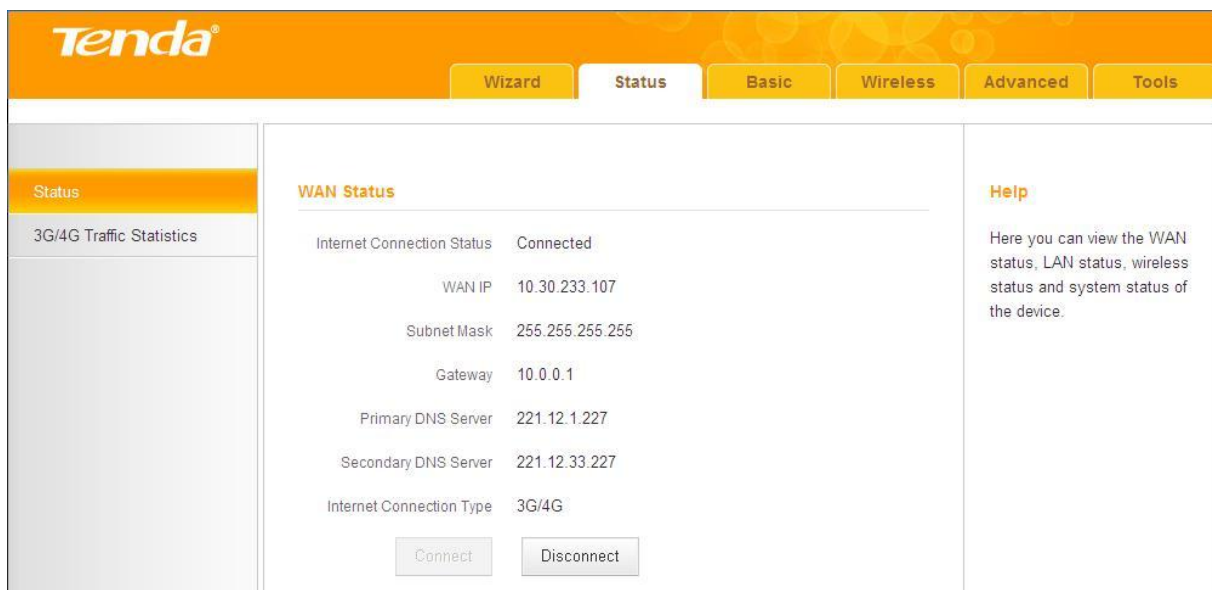
III Features & Configurations

1 Status

Click **Status** to enter the **Status** screen.

WAN Status

WAN Status in 3G/4G Router Mode:



3G/4G Traffic Statistics

To view the 3G/4G traffic statistics, click **Status** -> **3G/4G Traffic Statistics**.

This screen is available only in the **3G/4G Router Mode**.

Tenda®

Wizard

Status

Basic

Wireless

Advanced

Tools

Status

3G/4G Traffic Statistics

3G/4G Traffic Statistics

Upload Speed

0.06 KB/s

Download Speed

0.16 KB/s

TX Data

47.11 KB

RX Data

246.6 KB

Connected Time

00:09:56

Total Statistics

293.7 KB

Clear

Note: This traffic statistics is for references only. For actual statistics info consult your ISP.

Help

Here is only for monitoring Internet data traffic passing through the 3G/4G modem that is attached to the router.

WAN Status in Wireless Router Mode

Tenda®

Wizard

Status

Basic

Wireless

Advanced

Tools

Status

WAN Status

Internet Connection Status

Connected

WAN IP

223.0.0.214

Subnet Mask

255.255.255.0

Gateway

223.0.0.1

Primary DNS Server

2.2.2.2

Secondary DNS Server

4.4.4.4

Internet Connection Type

Dynamic IP

Connect

Disconnect

Help

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

WAN Status in Universal Repeater Mode

Tenda®

Wizard

Status

Basic

Wireless

Tools

Status

WAN Status

Repeater Status

Connected

Help

Here you can view the WAN status, LAN status, wireless



Tip

① WAN IP/Subnet Mask/Gateway/Primary DNS Server/Secondary DNS

Server: This type of information appears only if the router successfully connects to the Internet via a PPPoE or a DHCP (dynamic IP) connection. However if you connect the router to the 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.

- ② If there is no available secondary DNS server, nothing appears in the secondary DNS server field.
-
-

LAN Status

LAN Status	
IP Address	192.168.0.1
Subnet Mask	255.255.255.0
DHCP Server	Enabled



Note

The **DHCP Server** is disabled in **Universal Repeater Mode**.

Wireless Status

Wireless Status	
Wireless Radio	Enabled
SSID	Tenda_38DDC9
802.11 Mode	11b/g/n mixed mode
Channel	Auto
Security Mode	Disabled

System Status

System Status	
System Time	2013-12-16 17:33:13
Up Time	00:03:47
Firmware Version	4G630_V1.0.0.1_EN
Hardware Version	V1.0
LAN MAC Address	C8:3A:35:38:DD:C8
WAN MAC Address	C8:3A:35:38:DD:C8
Connected Clients	1



Knowledge Center

WAN MAC Address: The device's current WAN MAC address.

System Time: Current system time on this device. The device automatically synchronizes the system time with Internet time servers.

Up Time: Displays the time duration indicating how long the router has been up since startup. Up time is recounted and renewed upon power-off.

Connected Clients: Displays the number of DHCP clients.

2 Basic Settings

- To change the device's login IP address, see [**2.1 LAN Settings**](#).
- To set up the Internet, see [**2.2 WAN Settings**](#).
- To set up speed and duplex mode for the WAN port, see [**2.3 WAN Speed \(Available only in Wireless Router Mode\)**](#).
- To configure DNS server, see [**2.4 DNS Settings**](#).
- To clone MAC address, see [**2.5 MAC Clone \(Available only in Wireless Router Mode\)**](#).
- To configure DHCP server, see [**2.6 DHCP Server**](#).
- To assign static IP addresses and view LAN device information, see [**2.7 DHCP Client List**](#).

Note

In the **Universal Repeater Mode**, only the **LAN Settings** screen is available.

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 192.168.0.1 and 255.255.255.0.
- ② If you change the LAN IP address of the device, 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 device's LAN IP address and WAN IP address must be on different IP

segments. If not, it will not be able to access the Internet.

The screenshot shows the Tenda router's web interface. The top navigation bar includes 'Wizard', 'Status', 'Basic', 'Wireless', 'Advanced', and 'Tools'. The left sidebar lists configuration options: 'LAN Settings' (selected), 'WAN Settings', 'WAN Speed', 'DNS Settings', 'MAC Clone', 'DHCP Server', and 'DHCP Client List'. The main 'LAN Settings' section displays the current IP Address as 192.168.0.1 and Subnet Mask as 255.255.255.0. A 'Help' sidebar on the right provides instructions on how to use this section to configure the LAN IP and Subnet Mask, noting the default values.

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 Settings** to configure your Internet connection settings.

3G/4G Router Mode

Wizard

Status

Basic

Wireless

Advanced

Tools

LAN Settings

WAN Settings

DNS Settings

DHCP Server

DHCP Client List

WAN Settings

Country

UK

Service Provider

Vodafone (Pre-pay)

ISP

Vodafone (Pre-pay)

APN

pp.vodafone.co.uk

Dial Number

*99#

Advanced PPP Settings

User Name

web

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.

Note: To activate the "Connect during Specified Time" feature, you must first configure system time (Tools> Time & Date) for the device.

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/4G 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/ISP:** Select your 3G/4G service provider and ISP.
- ③ **APN:** Access point Name. Consult your ISP if you are not clear.
- ④ **Dial Number:** Common numbers are *99#, #777 and *99***1. Consult your ISP if you are not clear.
- ⑤ **User Name/Password:** Enter the user name and password for your 3G/4G Internet service.
- ⑥ 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 Mode

The **Wireless Router Mode** includes the following Internet connection types:

- **DHCP**
 - **PPPoE**
 - **Static IP**
 - **L2TP**
 - **PPTP**
- 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 your ISP does not provide you with any ISP login account or IP information.
- D.** Select L2TP (Layer 2 Tunneling Protocol) if your ISP uses an L2TP connection.
- E.** Select PPTP (Point-to-Point-Tunneling Protocol) if your ISP uses a PPTP connection.

DHCP

DHCP or Dynamic IP is a connection mode that allows the device to automatically acquire IP information from your ISP or your existing networking equipment.

The screenshot shows the Tenda Basic configuration interface. The 'WAN Settings' tab is selected in the top navigation bar. On the left sidebar, 'WAN Settings' is highlighted. The main content area shows 'Internet Connection Type' set to 'DHCP' and 'MTU' set to '1500'. A note states: '(Do not change it from factory default unless necessary.)'. There are 'Save' and 'Cancel' buttons at the bottom. A 'Help' section on the right explains Static IP and DHCP settings.

Configuration Procedures:

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

PPPoE

PPPoE is a connection mode associated with some DSL connections that requires user name and password. Contact your ISP if you need assistance with these login credentials.

The screenshot shows the Tenda Basic configuration interface with 'Internet Connection Type' set to 'PPPoE'. The 'User Name' and 'Password' fields are empty. The 'MTU' is set to '1492' with a note: '(Do not change it from factory default unless necessary.)'. 'Save' and 'Cancel' buttons are at the bottom. The 'Help' section on the right is the same as in the DHCP screenshot.

Configuration Procedures:

- ① **Internet Connection Type:** Select **PPPoE**.

- ② **User Name:** Enter the ISP login name.
- ③ **Password:** Enter the ISP login password.
- ④ Click **Save** to save your settings.



Knowledge Center

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](#).

Static IP

Static IP is a connection mode that allows you to specify the Static IP information provided by your ISP or that corresponds with your existing networking equipment.

Tenda®

Wizard Status Basic Wireless Advanced Tools

LAN Settings

WAN Settings

WAN Speed

DNS Settings

MAC Clone

DHCP Server

DHCP Client List

WAN Settings

Internet Connection Type: Static IP

IP Address: 223.0.0.214

Subnet Mask: 255.255.255.0

Gateway: 223.0.0.1

Primary DNS: 2.2.2.2

Secondary DNS: 4.4.4.4

MTU: 1500 (Do not change it from factory default unless necessary.)

Save Cancel

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 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.

Configuration Procedures:

- ① **Internet Connection Type:** Select **Static IP**.

- ② **IP Address/Subnet Mask/Gateway/Primary DNS/Secondary DNS:** Enter the information provided by your ISP.
- ③ Click **Save** to save your settings.

L2TP

L2TP (Layer 2 Tunneling Protocol) is a network protocol that enables the secure transfer of data from a remote client to a private enterprise server by creating a VPN across TCP/IP-based data. Enter your ISP provided information to establish a connection.

The screenshot shows the Tenda router's web interface. The top navigation bar includes 'Wizard', 'Status', 'Basic', 'Wireless', 'Advanced', and 'Tools'. The left sidebar lists 'LAN Settings', 'WAN Settings' (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 'L2TP' selected.
- L2TP Server Address:** A text input field with '(IP Address)' as a placeholder.
- User Name:** A text input field.
- Password:** A text input field.
- Address Mode:** A dropdown menu with 'Static' selected.
- IP Address:** A text input field.
- Subnet Mask:** A text input field.
- Gateway:** A text input field.
- MTU:** A text input field with '1458' and a note '(Do not change it from factory default unless necessary.)'.

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 PPPoE connection and provides you with a PPPoE user name and a PPPoE password. Simply enter them in corresponding fields.

Configuration Procedures:

- ① **Internet Connection Type:** Select **L2TP**.
- ② **L2TP Server Address:** Enter the L2TP IP address provided by your ISP.
- ③ **User Name:** Enter your L2TP user name.
- ④ **Password:** Enter your L2TP Password.
- ⑤ **Address Mode:** Select **Dynamic** if you don't get any IP information from your ISP, otherwise select **Static**. Consult your ISP if you are

not clear.

- ⑥ **IP Address:** Enter the IP address provided by your ISP. Consult your local ISP if you are not clear.
- ⑦ **Subnet Mask:** Enter the subnet mask.
- ⑧ **Gateway:** Enter the gateway provided by your ISP. Consult your local ISP if you are not clear.
- ⑨ Click **Save** to save your settings.

PPTP

PPTP (Point-To-Point Tunneling Protocol) is a network protocol that enables the secure transfer of data from a remote client to a private enterprise server by creating a VPN across TCP/IP-based data. Enter your ISP provided information to establish a connection.

MPPE is an encryption technology developed by Microsoft to encrypt point-to-point links.

The screenshot shows the Tenda router's web interface. The top navigation bar includes 'Wizard', 'Status', 'Basic', 'Wireless', 'Advanced', and 'Tools'. The left sidebar lists 'LAN Settings', 'WAN Settings' (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 'PPTP' selected.
- PPTP Server Address:** A text input field with '(IP Address)' as a placeholder.
- User Name:** A text input field.
- Password:** A text input field.
- Address Mode:** A dropdown menu with 'Static' selected.
- IP Address:** A text input field.
- Subnet Mask:** A text input field.
- Gateway:** A text input field.
- MPPE:** A checkbox that is currently unchecked.
- MTU:** A text input field with '1460' entered and a note: '(Do not change it from factory default unless necessary.)'

At the bottom of the form are 'Save' and 'Cancel' buttons. On the right side of the page, 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 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 PPPoE connection and provides you with a PPPoE user name and a PPPoE password. Simply enter them in corresponding fields.

Configuration Procedures:

- ① **Internet Connection Type:** Select **PPTP**.

- ② **PPTP Server Address:** Enter the PPTP IP address provided by your ISP.
- ③ **User Name:** Enter your PPTP user name.
- ④ **Password:** Enter your PPTP password.
- ⑤ **Address Mode:** Select **Dynamic** if you don't get any IP information from your ISP, otherwise select **Static**. Consult your ISP if you are not clear.
- ⑥ **IP Address:** Enter the IP address provided by your ISP. Consult your local ISP if you are not clear.
- ⑦ **Subnet Mask:** Enter the subnet mask.
- ⑧ **Gateway:** Enter the gateway provided by your ISP. Consult your local ISP if you are not clear.
- ⑨ 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.

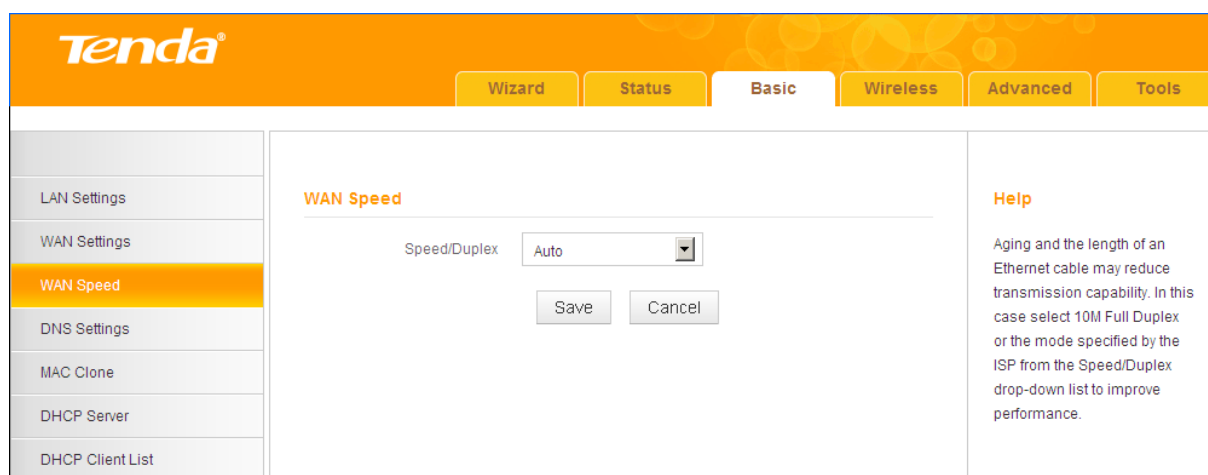
MTU	Application
1500	Typical for connections that do not use PPPoE or VPN.
1492	Used in PPPoE environments.
1472	Maximum size to use for pinging. (Larger packets are fragmented.)
1468	Used in some DHCP environments.
1436	Used in PPTP environments or with VPN.

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, FTP or POP servers.

2.3 WAN Speed (Available only in Wireless Router Mode)

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



The screenshot shows the Tenda Basic configuration interface. The top navigation bar includes 'Wizard', 'Status', 'Basic' (selected), 'Wireless', 'Advanced', and 'Tools'. On the left, a sidebar lists settings: 'LAN Settings', 'WAN Settings', 'WAN Speed' (highlighted), 'DNS Settings', 'MAC Clone', 'DHCP Server', and 'DHCP Client List'. The main area is titled 'WAN Speed' and contains a 'Speed/Duplex' dropdown menu set to 'Auto'. Below the dropdown are 'Save' and 'Cancel' buttons. A 'Help' section on the right explains that aging and cable length can reduce transmission capability and suggests selecting 10M Full Duplex or the mode specified by the ISP from the dropdown list to improve performance.



Tip

- ① The device operates in **Auto** (Auto-negotiation) mode by default. Usually, it works for most cases.
- ② In some situations, you might need to change the speed/duplex mode. For example, if the cable connected to your device'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 device's WAN port operates with the same speed and duplex mode as the remote link partner. Otherwise, your device's WAN port may not receive and send data.

2.4 DNS Settings

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

Configuration Procedures:

- ① **DNS Settings:** Check/uncheck to enable/disable the DNS settings.
- ② **Primary DNS Address:** Enter the IP address of the primary DNS server provided by your ISP.
- 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 may not open.

2.5 MAC Clone (Available only in Wireless Router Mode)

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 device.

Click **Basic -> MAC Clone** to enter the configuration screen.



Knowledge Center

Restore Default MAC: Reset the device's WAN MAC address to factory default.

Clone MAC: Clicking this button copies the MAC address of the computer that you are currently using to the router. Note that you have to use the computer whose MAC address is allowed by your ISP. Also, you can manually enter the MAC address that you want to use.

To restore default MAC address:

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

To copy the MAC address of the computer that you are currently using to the device:

- 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 Server

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 the Internet.

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

Tenda

Wizard Status **Basic** Wireless Advanced Tools

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

DHCP Server

DHCP Server ☒ Enable

Start IP 192.168.0. 100

End IP 192.168.0. 200

Lease Time 1 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 - Enable:** Check/uncheck the box to enable or disable the DHCP server feature.
- ② **Start IP/End IP:** You can specify the starting and ending addresses of the IP address pool here. These addresses should be part of the same IP address subnet as the device'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

- ① By default, the device functions as a DHCP server. Do not disable the DHCP server feature unless you want to manually configure the TCP/IP settings for all the PCs on your LAN.
- ② Lease time will be renewed automatically upon expiry.
- ③ 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 see a list of the DHCP dynamic clients (if any). By viewing this list, you can know whether there are unauthorized accesses.

The screenshot shows the Tenda web interface. The top navigation bar includes 'Wizard', 'Status', 'Basic' (selected), 'Wireless', 'Advanced', and 'Tools'. The left sidebar lists various settings: LAN Settings, WAN Settings, WAN Speed, DNS Settings, MAC Clone, DHCP Server, and DHCP Client List (highlighted). The main content area is divided into two sections: 'Static Assignment' and 'DHCP Client List'. The 'Static Assignment' section has input fields for IP Address (192.168.0.) and MAC Address, an 'Add' button, and a table with columns for Index, IP Address, MAC Address, and Delete. Below this are 'Save' and 'Cancel' buttons. The 'DHCP Client List' section has a 'Refresh' button and a table with columns for Host Name, IP Address, MAC Address, and Lease Time. The right sidebar contains a 'Help' section with text explaining the DHCP Client List and a note about rebooting the device.

Host Name	IP Address	MAC Address	Lease Time
INVE-20130508IP	192.168.0.156	c8:9c:dc:3b:ac:89	23:44:42

Also, you can specify a reserved IP address for a PC on your 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:37:38 always receive the same IP address of 192.168.0.123.

The screenshot shows the Tenda router's web interface. The 'Basic' tab is selected, and the 'DHCP Client List' option is highlighted in the left sidebar. The 'Static Assignment' section is active, showing an IP Address of 192.168.0.123 and a MAC Address of 44:37:E6:4F:37:38. Below this is a table with one entry for the static assignment. The 'DHCP Client List' section below it shows a table with one entry for a client named INVE-20130508IP. A 'Help' section on the right provides additional information about the DHCP Client List.

Index	IP Address	MAC Address	Delete
1	192.168.0.123	44:37:E6:4F:37:38	Delete

Host Name	IP Address	MAC Address	Lease Time
INVE-20130508IP	192.168.0.156	c8:9c:dc:3b:ac:89	23:44:42

Configuration Procedures:

- ① Enter the last number of the IP address you want to reserve. Here in this example, enter 123.
- ② Enter the MAC address of 44:37:E6:4F:37:38.
- ③ Click **Add**.
- ④ Click **Save** to save your settings.



Tip

- ① If the IP address you have reserved for your PC is currently used by another client, then you will not be able to obtain a new IP address from the device's DHCP server, instead, you must manually specify a different IP address for your PC to access the Internet.
- ② For PCs that have already obtained IP addresses, you may need to perform

the **Repair** action to activate the configured static IP addresses.

3 Wireless Settings

- To configure wireless network name, channel and other basic wireless settings, see [3.1 Basic](#).
- To secure your wireless network, see [3.2 Security](#).
- To restrict access to your wireless network, see [3.3 Access Control](#).
- To see who are connecting to your wireless network, see [3.4 Connection Status](#).

3.1 Basic

Here you can configure the basic wireless settings of the device.

The screenshot shows the Tenda web interface for configuring wireless settings. The top navigation bar includes tabs for Wizard, Status, Basic, Wireless, Advanced, and Tools. On the left, a sidebar lists Basic, Security, Access Control, and Connection Status. The main content area is titled 'Wireless Basic' and contains the following settings:

- Wireless Enable: ☒ Enable
- SSID: Text input field containing 'Tenda_38DDC9'
- 802.11 Mode: Dropdown menu set to '11b/g/n mixed mode'
- BSSID: Text input field containing 'C8:3A:35:38:DD:C9'
- SSID Broadcast: Radio buttons for 'Enable' (selected) and 'Disable'
- Channel: Dropdown menu set to '2462MHz (Channel 11)'
- Channel Bandwidth: Radio buttons for '20' and '20/40' (selected)
- Extension Channel: Dropdown menu set to '2442MHz (Channel 7)'

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

Help

This section allows you to config basic wireless settings. It is advisable that you only config the SSID and channel settings and leave other items unchanged.

SSID: This is the public name of your wireless network.

Broadcast SSID: Wireless clients find your wireless network by performing a scan to see what's available. When enabled, your wireless network is visible to any wireless clients within coverage when they scan for a wireless network; when disabled, your wireless network is invisible and thus secure.

Configuration Procedures:

- ① **SSID:** This is the public name of your wireless network.
- ② **Channel:** Select a channel or select **Auto** to let system automatically select one for your wireless network to operate on if you are unsure of which channel to use. The best selection is a channel that is the least used by neighboring networks.
- ③ Click **Save** to save your settings.