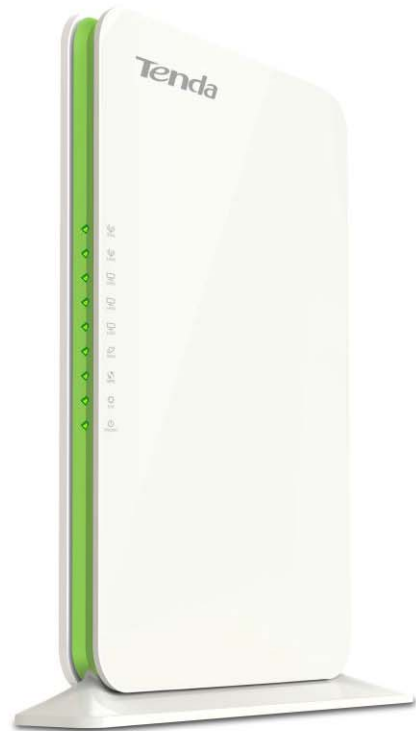


Tenda

User Guide



Wireless AC1200 Dual-band Router



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!

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Preface

Thank you choosing Tenda! Please read this user guide before you start! This user guide instructs you to install and configure the router.

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



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>

Telephone: (86 755) 2765 7180

Email: support@tenda.com.cn

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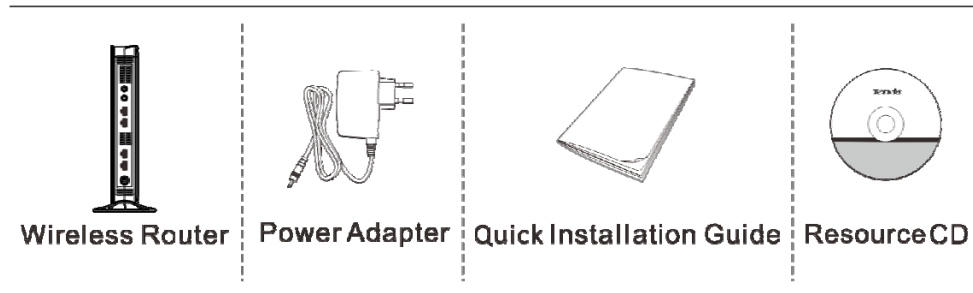
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I Product Overview

1 Package Contents

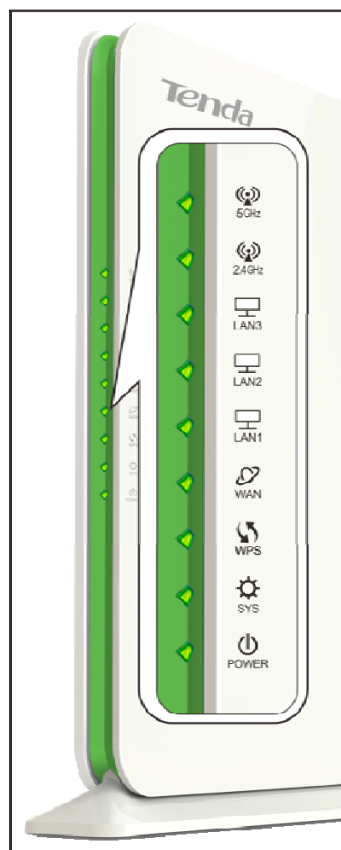
Unpack the package. Your box should contain the following items:



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

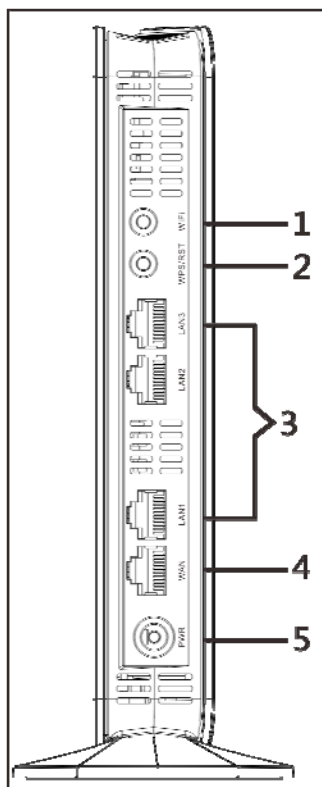
LEDs on Front Panel



LED	Status	Description
5GHz 	Solid	5G wireless radio is on
	Blinking	Data being transferred over 5G wireless network
	Off	5G wireless radio is off
2.4GHz 	Solid	2.4G wireless radio is on
	Blinking	Data being transferred over 2.4G wireless network
	Off	2.4G wireless radio is off
LAN (1/2/3) 	Solid	LAN port connected correctly
	Blinking	LAN port is transferring data
	Off	No link is detected on this port.
WAN 	Solid	WAN port connected correctly
	Blinking	WAN port is transferring data
	Off	No link is detected on this port.
WPS 	Solid	WPS is enabled
	Blinking	Device is performing WPS authentication on a client device.
	Off	WPS function is disabled or WPS authentication negotiation is completed
SYS 	Blinking	System is functioning correctly.
	Solid/Off	The unit is malfunctioning.
POWER 	Solid	Indicates a proper connection to the power supply
	Off	Power is not supplied to the router. Please check the power connection between the power outlet and router.



Buttons & Interfaces on Back Panel



1→WiFi: Wireless radio ON/OFF button. Pressing the WiFi On/Off button turns the wireless radios on and off.

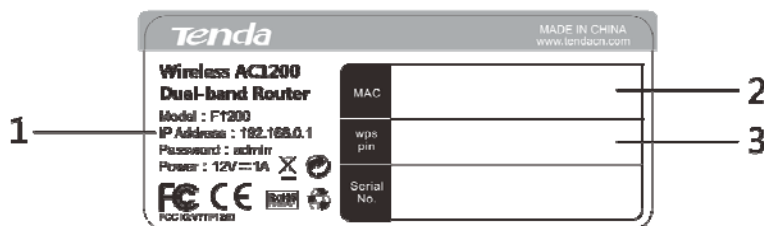
2→WPS/RST: Pressing it for over 7 seconds restores the device to factory default settings. For factory default parameters, see [Appendix 3 Factory Default Settings](#). Pressing it for about 1 second enables WPS-PBC and the WPS LED blinks. You can use this button to quickly add a wireless device or computer to your wireless network.

3→LAN (1/2/3): The local (LAN) Ethernet ports are for cabling the device to local computers, switches, etc.

4→WAN: The Internet (WAN) Ethernet port is for cabling the router to a cable or DSL modem.

5→PWR: The power port for connecting the router to power outlet.

Label





1→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.

2→MAC address.

3→WPS pin code.

3 Position Your Router

The operating distance or range of your wireless connection can vary significantly depending on the physical placement of your router. For best performance, place your router:

- Near the center of the area where your computers, smart phones and other devices operate, and preferably within line of sight to your wireless devices.
- In an elevated location such as a high shelf, keeping the number of walls and ceilings between the router and your other devices such as computers and smart phones to a minimum.
- Away from electrical devices that are potential sources of interference, such as ceiling fans, home security systems, microwaves or PCs.
- Away from any large metal surfaces, such as a solid metal door or aluminum studs.
- Away from other materials such as glass, insulated walls, fish tanks, mirrors, brick, and concrete that can also affect your wireless signal.

II Quick Internet Setup

1 Getting Prepared

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

Item	Description
Router	Comes in the package
Power Adapter	Please use the power adapter that comes in the package. Using a power adapter with a different voltage rating than the one included with the router will cause damage to the router.
PC	Should have installed IE8 or higher browser
Ethernet Cable	You will need it to connect your PC to the router
Internet service	This is provided by your ISP
Gather 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)

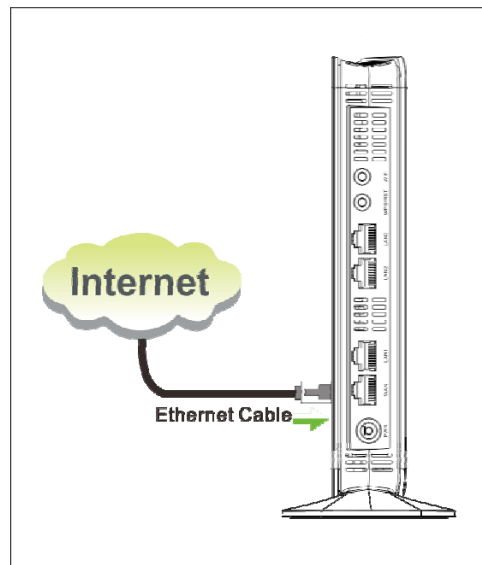
Hardware Install



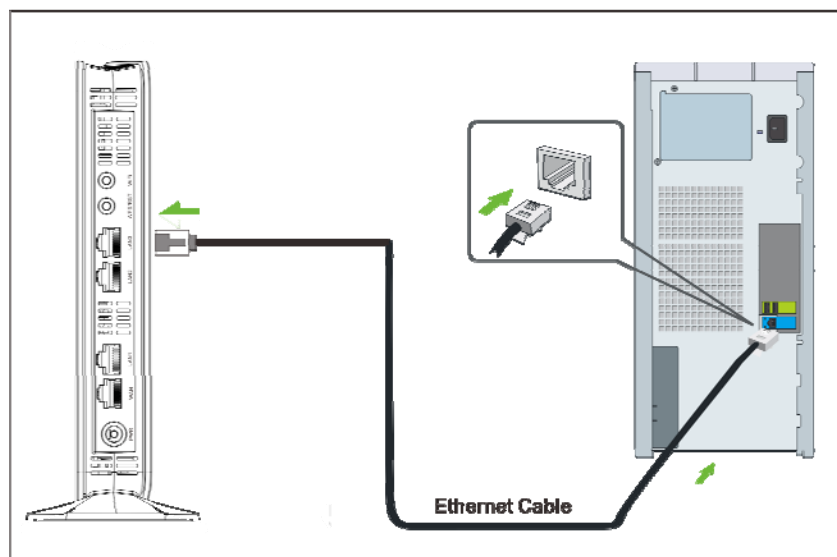
Note

Before you start, make sure you can access the Internet by connecting the cable from the incoming Internet side to your PC.

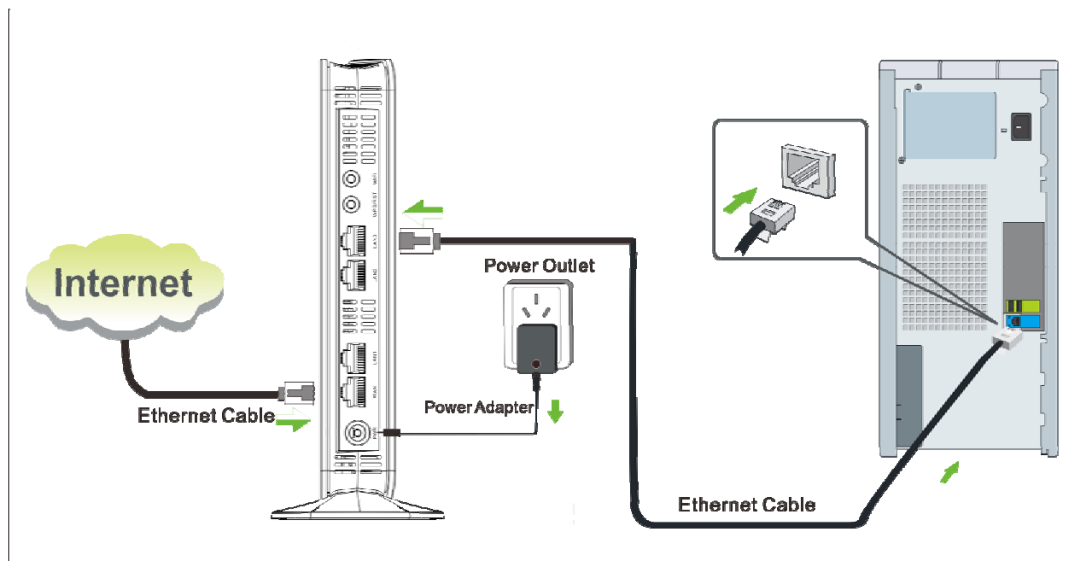
- ① Connect the Ethernet cable from the Internet side to WAN port of the router.



- ② Connect one of the LAN ports on the router to the RJ45 (NIC) port on your PC using an Ethernet cable.



- ③ Connect the router to a surge protected power strip using the included power adapter.



Note

Using a power adapter with a different voltage rating than the one included with the device will cause damage to the device.

3. Internet Setup

1) Configure PC

If your computer is set to a static or fixed IP address (this is uncommon), change it to obtain an IP address automatically from the router. If you are unsure, see [Appendix 1 Configure PC TCP/IP Settings.](#)

2) Configure Router

Step 1. Log in to Web manager.

- ① Launch a web browser, say, IE.



- ② In the address bar, input 192.168.0.1, and press "Enter".





- ③ The login window appears, and enter the login password.

The login window for the Tenda Wireless AC1200 Dual Band Router. It features a title bar with the router's name. Below the title bar, there is a label 'Password' followed by a text input field. To the right of the input field, the text '(Default:admin)' is displayed. At the bottom of the window, there are two buttons: 'Login' and 'Cancel'.

- ④ This router will automatically detect WAN connection status when you press the **Enter** key (This happens when you first time set up the router or when you restore the router to factory default settings).



- ⑤ The following screen appears when your Internet connection type is detected. Click **OK**.



- ⑥ And the Quick Setup screen appears after you clicked the **OK** button.



Tip-----

1. If you are not using the PPPoE or Dynamic IP (DHCP) Internet connection type, click “Advanced” for more connection types.
2. The default Internet connection type is DHCP (Dynamic IP).
3. The router has a preset wireless security key of 12345678 but it is deactivated by factory default. However if you click the **OK** button on that page, the wireless security key of 12345678 will be activated automatically.
4. Here we use the WPA-PSK/AES for explanation. If you want to use other security mode and/or cipher type, see [Security](#).

Step 2. Internet Setup & Wireless Security Setup

A. Select Dynamic IP (DHCP) to obtain IP Address information automatically from your ISP. Select this option if your ISP does not give you any IP information or user name and password.

Dynamic IP (DHCP) & Wireless Security Setup

The screenshot shows the Tenda router's configuration interface. At the top, the Tenda logo is on the left, and the version (V1.0.0.2 (7514)) and product name (Wireless AC1200 Dual Band Router) are on the right. The main content area is divided into two sections. The first section, 'Internet Connection Setup', has a title in orange. Below it, 'Internet Connection Type' has two radio buttons: 'PPPoE' and 'Dynamic IP'. The 'Dynamic IP' button is selected. Below the radio buttons, there is a link that says 'For other connection types, click "Advanced"'. The second section, 'Wireless Security Setup', also has an orange title. It contains a dropdown menu set to '2.4G Security' and a password field with eight dots. Below the password field, it says '(Default: 12345678)'. At the bottom of the form are 'Save' and 'Cancel' buttons.

- ① Select Dynamic IP (DHCP).
- ② The default wireless band is 2.4G and default wireless security key is 12345678. For better security key, please change the default security key (Security key should be 8-63 characters).
- ③ Click **Save** to save your settings.

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

PPPoE & Wireless Security Setup

This screenshot shows the same Tenda router configuration interface as the previous one, but with the 'PPPoE' radio button selected under 'Internet Connection Type'. Below the radio buttons, there are two text input fields: 'ISP Username' with the placeholder text 'Please enter ISP Username!' and 'ISP Password' with the placeholder text 'Please enter ISP Password!'. The 'Advanced' link is still present. The 'Wireless Security Setup' section remains the same, with the dropdown set to '2.4G Security' and the password field showing eight dots and the default key '12345678'. 'Save' and 'Cancel' buttons are at the bottom.

- ① Select **PPPoE**.



- ② Enter the ISP login name and password.
- ③ The default wireless band is 2.4G and default wireless security key is 12345678. For better security key, please change the default security key (Security key should be 8-63 characters).
- ④ Click **Save** to save your settings.

4 Verify Internet Connectivity

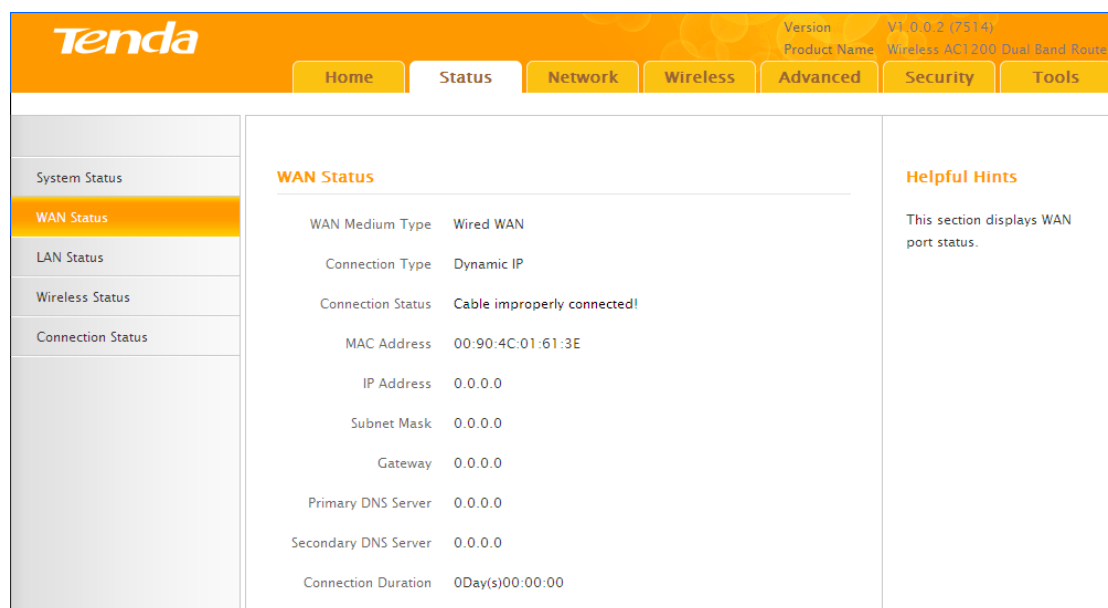
System will automatically enter the Status screen after you save the settings made on the Quick Setup screen.

A. If the connection status displays "Connected" (as shown below), you are connected to the Internet.

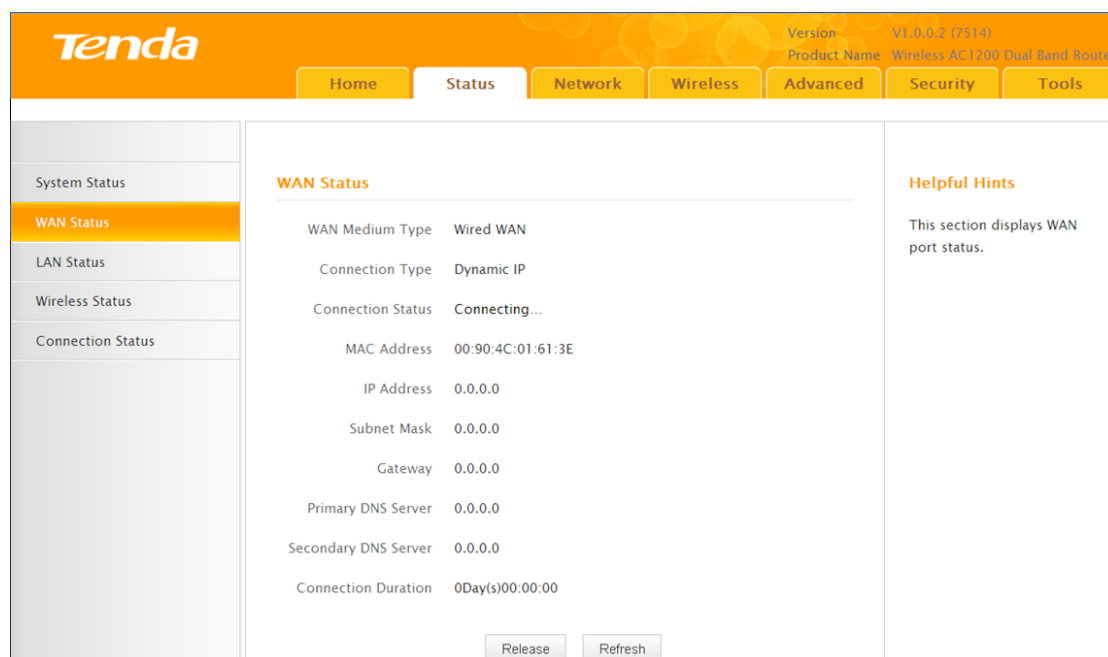
The screenshot shows the Tenda router's web interface. The top navigation bar includes tabs for Home, Status, Network, Wireless, Advanced, Security, and Tools. The left sidebar lists System Status, WAN Status (highlighted), LAN Status, Wireless Status, and Connection Status. The main content area displays the WAN Status, which is 'Connected'. The status details include: WAN Medium Type: Wired WAN; Connection Type: Dynamic IP; Connection Status: Connected; MAC Address: 00:90:4C:01:61:3E; IP Address: 192.168.30.176; Subnet Mask: 255.255.255.0; Gateway: 192.168.30.1; Primary DNS Server: 192.168.30.1; Secondary DNS Server: 0.0.0.0; and Connection Duration: 0Day(s)00:04:50. There are 'Release' and 'Refresh' buttons at the bottom. A 'Helpful Hints' section on the right states: 'This section displays WAN port status.'

WAN Status	
WAN Medium Type	Wired WAN
Connection Type	Dynamic IP
Connection Status	Connected
MAC Address	00:90:4C:01:61:3E
IP Address	192.168.30.176
Subnet Mask	255.255.255.0
Gateway	192.168.30.1
Primary DNS Server	192.168.30.1
Secondary DNS Server	0.0.0.0
Connection Duration	0Day(s)00:04:50

B. If connection status displays "Cable improperly connected!", the connection between the router and Internet fails. Make sure the cable from the incoming Internet side is properly connected to the router's WAN port. If nothing is wrong, "Connecting" or "Connected" will be displayed.



If the connection status displays "Connecting..." and WAN IP address displays "0.0.0.0", wait until the page updates five times.



And if it still displays "Connecting..." try the following steps:

- ① Make sure physical connections are correctly established.
- ② Make sure you can access the Internet on your PC without using the router.
- ③ If your ISP uses a PPPoE Internet connection, make sure you entered the correct ISP login name and password.
- ④ If the problem is still unsolved, see [2.4 MAC Clone](#).

5 Join Your Wireless Network

Having finished above settings, you can search for the device's default wireless network (SSID) from your wireless devices (notebook, iPad, iPhone, etc.) to connect to it wirelessly.

**Tip**-----

1. The router's SSID is Tenda_XXXXXX by default.
 2. To join your wireless network, the PC you use must have installed a wireless network adapter. If not, install one.
-

Windows 7

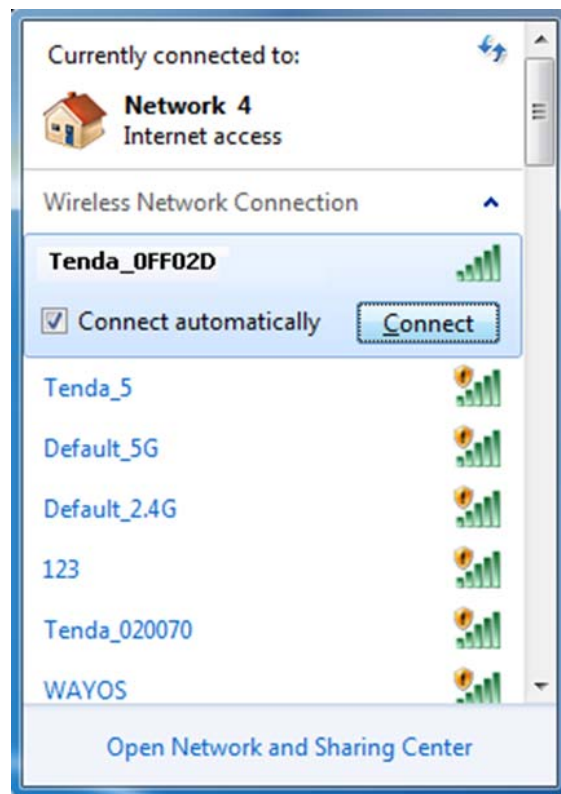
- ① Click the icon  on the notification area on the bottom right corner.

**Tip**-----

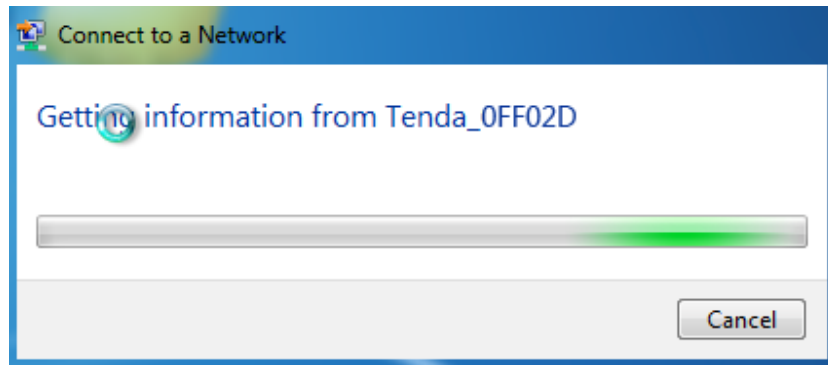
If you cannot find the  icon, try disabling the wired network adapter or unplug the Ethernet cable from the wired network adapter of your PC and refresh your desktop. If the problem remains unsolved, see [Join Your Wireless Network - Windows 7](#).



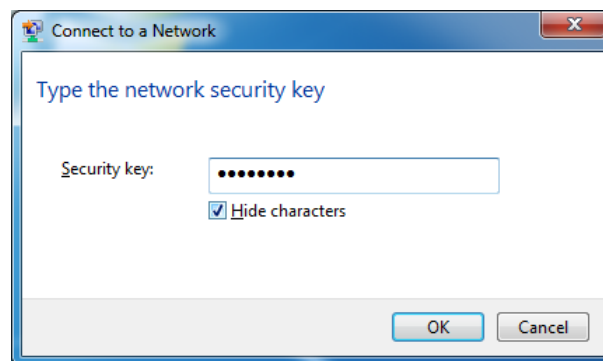
- ② Select the wireless network you wish to connect and click **Connect**.



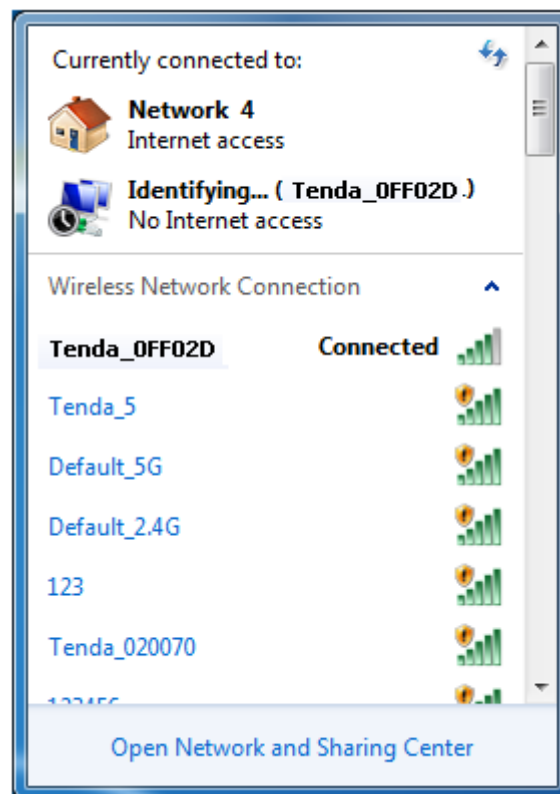
- ③ If you see the screen below, you are connecting to the wireless network.



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

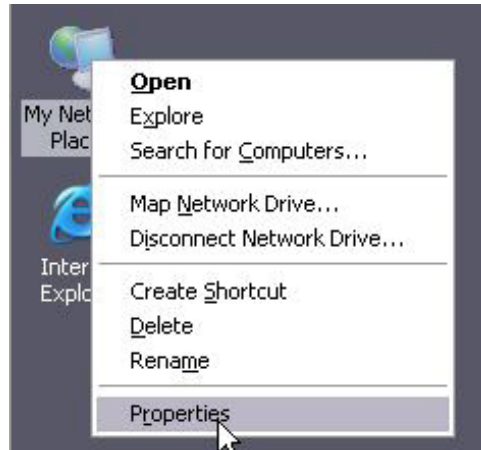


- ⑤ When you see **Connected** displayed next to the wireless network you selected, you have connected to the wireless network successfully.

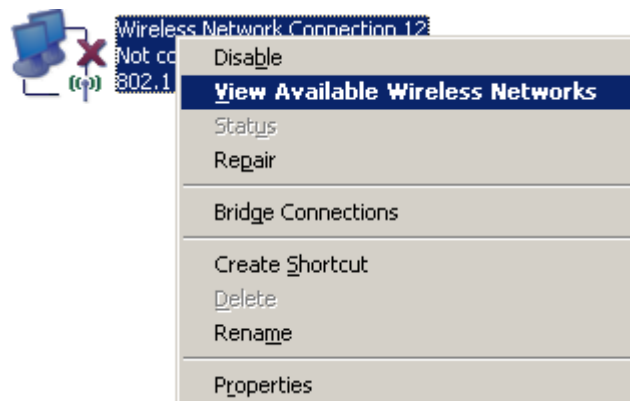


Windows XP

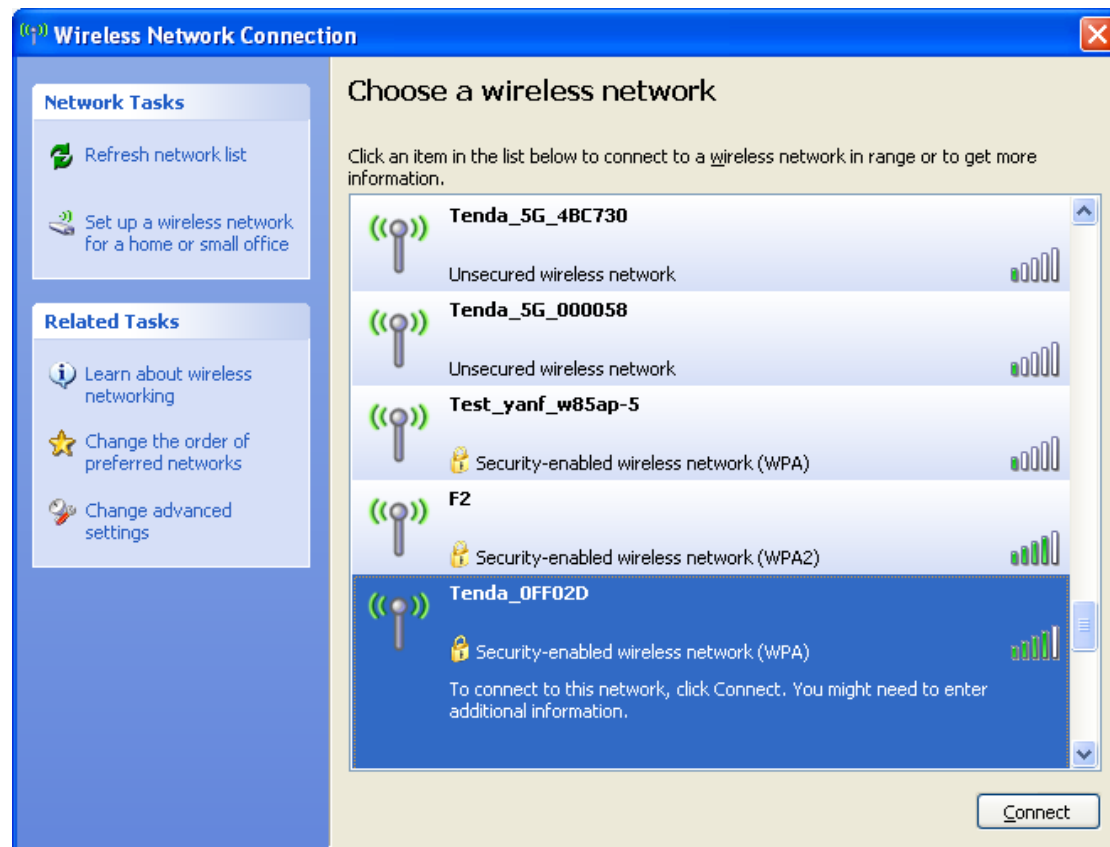
- ① Right click **My Network Places** from your PC's desktop and select **Properties**.



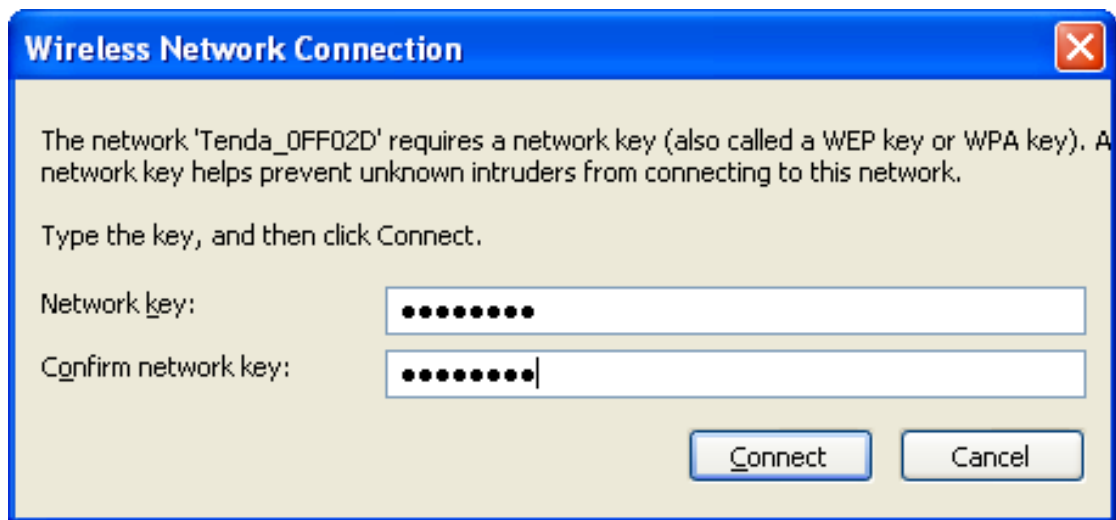
- ② Right click **Wireless Network Connection** and select **View Available Wireless Networks**.



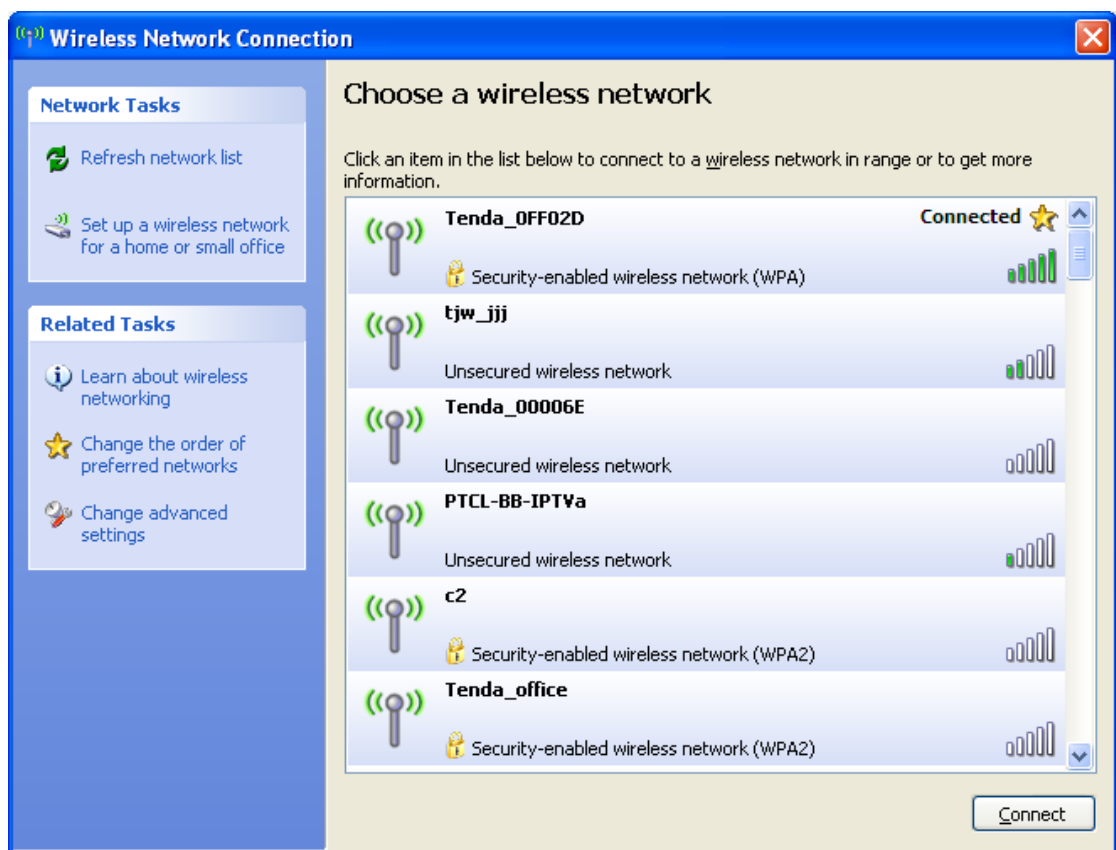
- ③ Double click the wireless network you wish to connect.



- 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.



III Features & Configurations

For more and advanced features, click **Advanced** on the home page.

Tenda		Version V1.0.0.2 (7514)		Product Name Wireless AC1200 Dual Band Router									
Home		Status		Network		Wireless		Advanced		Security		Tools	
System Status		System Status								Helpful Hints			
WAN Status		CPU Utilization 7%								This section displays router's current system info.			
LAN Status		Memory Utilization 48%											
Wireless Status		System Time 2013-08-19 10:30:10											
Connection Status		Up Time 0day(s)00:34:35											
		Client Count 1											
		Firmware Version V1.0.0.2 (7514)											
		Hardware Version 1.0.0.0											

1 Status

1.1 System Status

Click **Advanced** on the home page and the **Status** screen appears. Here you can view the router's WAN status and system status as noted below:



Tip-----

1. **Connection Status:** Displays the router's current WAN connection status: Disconnected, Connecting, or Connected. For explanation of the 3 connection statuses, see [4 Verify Internet Connectivity](#).
 2. 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.
 3. If nothing appears in the secondary DNS server field, there is no available secondary DNS server.
-



Version V1.0.0.2 (7514)
Product Name Wireless AC1200 Dual Band Router

Home Status Network Wireless Advanced Security Tools

System Status	System Status CPU Utilization 7% Memory Utilization 48% System Time 2013-08-19 10:30:10 Up Time 0day(s)00:34:35 Client Count 1 Firmware Version V1.0.0.2 (7514) Hardware Version 1.0.0.0	Helpful Hints This section displays router's current system info.
---------------	--	---

1.2 WAN Status

Click **Status** -> **WAN Status** to enter the WAN Status screen as seen below.



Version V1.0.0.2 (7514)
Product Name Wireless AC1200 Dual Band Router

Home Status Network Wireless Advanced Security Tools

System Status	WAN Status WAN Medium Type Wired WAN Connection Type Dynamic IP Connection Status Connected MAC Address 00:90:4C:01:61:3E IP Address 192.168.30.176 Subnet Mask 255.255.255.0 Gateway 192.168.30.1 Primary DNS Server 192.168.30.1 Secondary DNS Server 0.0.0.0 Connection Duration 0Day(s)00:33:47 Release Refresh	Helpful Hints This section displays WAN port status.
WAN Status		
LAN Status		
Wireless Status		
Connection Status		



1.3 LAN Status

Click **Status** -> **LAN Status** to enter the LAN Status screen as seen below.

Tenda		Version	V1.0.0.2 (7514)					
		Product Name	Wireless AC1200 Dual Band Router					
		Home	Status	Network	Wireless	Advanced	Security	Tools
System Status	LAN Status		Helpful Hints					
WAN Status	MAC Address		00:90:4C:01:60:3D					
LAN Status	IP Address		192.168.0.1					
Wireless Status	Subnet Mask		255.255.255.0					
Connection Status								

1.4 Wireless Status

Click **Status** -> **Wireless Status** to enter the Wireless Status screen as seen below.

Tenda		Version	V1.0.0.2 (7514)					
		Product Name	Wireless AC1200 Dual Band Router					
		Home	Status	Network	Wireless	Advanced	Security	Tools
System Status	Wireless Status		Helpful Hints					
WAN Status	2.4GHz Wireless		This section displays wireless status.					
LAN Status	Wireless Radio		Enabled					
Wireless Status	Wireless MAC Address		00:90:4C:01:70:3D					
Connection Status	SSID		Tenda_01703D					
	802.11 Mode		11b/g/n mixed					
	Country		China					
	Channel		Channel 11					
	Security Mode		WPA-PSK/WPA2-PSK					
	5GHz Wireless							
	Wireless Radio		Enabled					
	Wireless MAC Address		00:90:4C:0E:60:11					
	SSID		Tenda_5G_0E6011					
	802.11 Mode		11a/n mixed					
	Country		China					
	Channel		Channel 9					
	Security Mode		None					



1.5 Connection Status

Click **Status** -> **Connection Status** to enter the Connection Status screen.

IP Address	MAC Address	Medium Type(Wired/Wireless)
192.168.0.100	C8:3A:35:DC:E1:31	Wired

2 Network

2.1. LAN Settings

Click **Network** -> **LAN** to enter the LAN configuration screen. Here you can configure the LAN IP address. This IP address is to be used to access the router's settings through a web browser.

LAN Settings

Use this section to configure your router's LAN IP settings.

MAC Address: 00:90:4C:01:60:3D

IP Address:

Subnet Mask:

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.



Tip -----

1. Default IP address and subnet mask are respectively 192.168.0.1 and 255.255.255.0.
 2. This router does not support VLSM.
 3. 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.
-

2.2. WAN Settings

Click **Network** -> **WAN** to configure your Internet connection settings. Select your Internet connection type:

- A.** Select **PPPoE** if your ISP provides you with 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 the Internet simply by directly connecting your computer to an Internet-enabled ADSL/Cable modem without configuring any settings.

PPPoE

Tenda

Version V1.0.0.2 (7514)
 Product Name Wireless AC1200 Dual Band Router

Home
Status
Network
Wireless
Advanced
Security
Tools

LAN

WAN

Port Mode

MAC Clone

DHCP Server

DHCP Clients

Static Assignment

DHCP - Guest Network

Client List - Guest Network

WAN Settings

Connection Type

ISP Username

ISP Password

☐ Display Key

MPPE
☐

MTU
 (Default: 1450)

Save
Cancel

Helpful Hints

Dynamic IP: Select it to obtain IP settings automatically for Internet connection if your ISP does not give you any IP or account info.

Static IP: Select it if your ISP provides you with IP info. Enter IP address, subnet mask, Primary DNS and secondary DNS info, etc provided by your ISP in corresponding fields.

PPPoE: Select it if your ISP is using a PPPoE connection and enter PPPoE user name and password info provided by your ISP.

MTU: Maximum Transmission Unit. The default value varies according to different Internet connection types. DO NOT change it unless necessary.

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](#).

Static IP

Tenda		Version	V1.0.0.2 (7514)
		Product Name	Wireless AC1200 Dual Band Router
Home Status Network Wireless Advanced Security Tools			
LAN WAN Port Mode MAC Clone DHCP Server DHCP Clients Static Assignment DHCP - Guest Network Client List - Guest Network	WAN Settings Connection Type: Static IP IP Address: 192.168.30.176 Subnet Mask: 255.255.255.0 Gateway: 192.168.30.1 Primary DNS Server: 192.168.30.1 Secondary DNS Server: 0.0.0.0 MTU: 1450 (Default: 1450) Save Cancel		
		Helpful Hints Dynamic IP: Select it to obtain IP settings automatically for Internet connection if your ISP does not give you any IP or account info. Static IP: Select it if your ISP provides you with IP info. Enter IP address, subnet mask, Primary DNS and secondary DNS info, etc provided by your ISP in corresponding fields. PPPoE: Select it if your ISP is using a PPPoE connection and enter PPPoE user name and password info provided by your ISP. MTU: Maximum Transmission Unit. The default value varies according to different Internet connection types. DO NOT change it unless necessary.	

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 those info which should be provided by your ISP. If you cannot locate this info, contact and consult your ISP.
- ③ Click **Save** to save your settings.

Dynamic IP (DHCP)

Tenda		Version	V1.0.0.2 (7514)
		Product Name	Wireless AC1200 Dual Band Router
Home Status Network Wireless Advanced Security Tools			
LAN WAN Port Mode MAC Clone DHCP Server DHCP Clients Static Assignment DHCP - Guest Network Client List - Guest Network	WAN Settings Connection Type: Dynamic IP MTU: 1450 (Default: 1450) Save Cancel		
		Helpful Hints Dynamic IP: Select it to obtain IP settings automatically for Internet connection if your ISP does not give you any IP or account info. Static IP: Select it if your ISP provides you with IP info. Enter IP address, subnet mask, Primary DNS and secondary DNS info, etc provided by your ISP in corresponding fields. PPPoE: Select it if your ISP is using a PPPoE connection and enter PPPoE user name and password info provided by your ISP. MTU: Maximum Transmission Unit. The default value varies according to different Internet connection types. DO NOT change it unless necessary.	

Configuration Procedures:

- ① **Internet connection Type:** Select **Dynamic IP** (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 for Tenda routers 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 the technical support of either your ISP or Tenda 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.

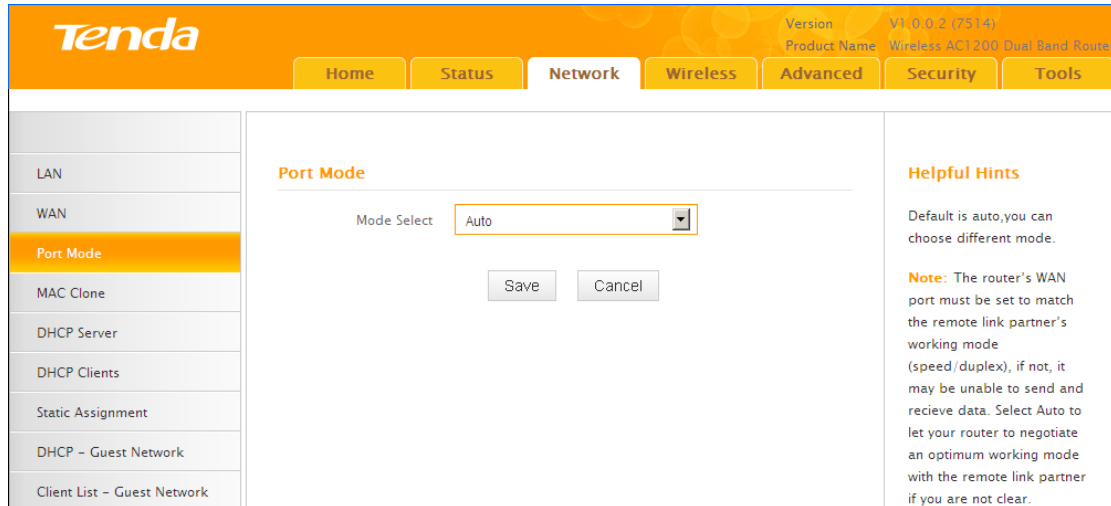


Note -----

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 Port Mode

Click **Network** -> **Port Mode** to enter the WAN port mode screen. Here you can configure the router's WAN speed and duplex mode.



Tenda Version: V1.0.0.2 (7514)
Product Name: Wireless AC1200 Dual Band Router

Home Status **Network** Wireless Advanced Security Tools

LAN
WAN
Port Mode
MAC Clone
DHCP Server
DHCP Clients
Static Assignment
DHCP - Guest Network
Client List - Guest Network

Port Mode

Mode Select: Auto

Save Cancel

Helpful Hints

Default is auto, you can choose different mode.

Note: The router's WAN port must be set to match the remote link partner's working mode (speed/duplex), if not, it may be unable to send and receive data. Select Auto to let your router to negotiate an optimum working mode with the remote link partner if you are not clear.

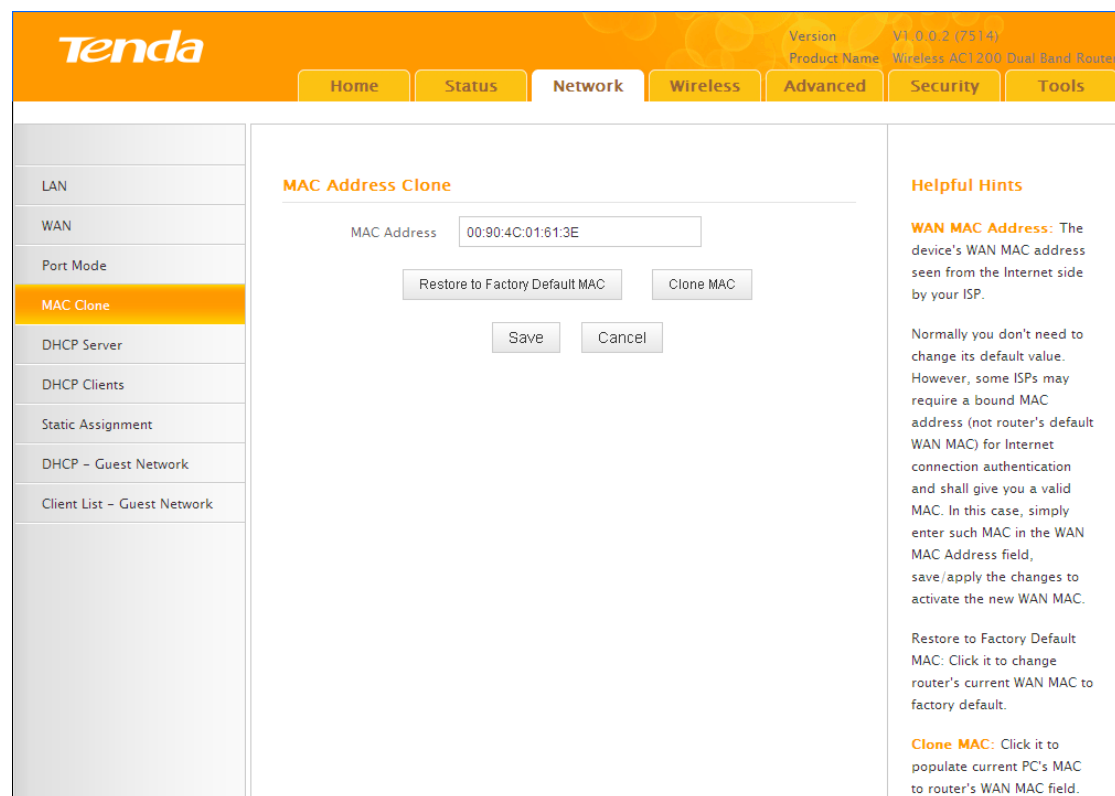


Tip

1. The best port mode is often just the factory default of "Auto".
2. In some situations, you might need to change the port mode. For example, if the cable connected to your router's WAN port is too long, you may need to use 10M full-duplex or 10M half-duplex for better performance.

2.4 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 **Network -> MAC Clone** to enter the MAC Clone screen.



MAC Address Clone

MAC Address: 00:90:4C:01:61:3E

Restore to Factory Default MAC Clone MAC

Save Cancel

Helpful Hints

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. However, some ISPs may require a bound MAC address (not router's default WAN MAC) for Internet connection authentication and shall give you a valid MAC. In this case, simply enter such MAC in the WAN MAC Address field, save/apply the changes to activate the new WAN MAC.

Restore to Factory Default MAC: Click it to change router's current WAN MAC to factory default.

Clone MAC: Click it to populate current PC's MAC to router's WAN MAC field.



Knowledge Center -----

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.

2.5. 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 the Internet.

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

Tenda Version: V1.0.0.2 (7514) Product Name: Wireless AC1200 Dual Band Router

Home Status **Network** Wireless Advanced Security Tools

LAN
WAN
Port Mode
MAC Clone
DHCP Server
DHCP Clients
Static Assignment
DHCP - Guest Network
Client List - Guest Network

DHCP Server

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

DHCP Server ☐ Disable ☒ Enable

Start IP Address: 192.168.0.100

End IP Address: 192.168.0.200

Primary DNS Server: 192.168.0.1

Secondary DNS Server:

Lease Time: 1 day

Save Cancel

Helpful Hints

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

Start/End IP Address: Specify a IP address range for DHCP assignment by entering a starting/ending IP address.

Note: To activate this feature, you must reboot the router and set all LAN PC's TCP/IP settings to 'Obtain an IP address automatically'.

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-----

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

2.6 DHCP Client List

Click **Network -> DHCP Clients** to enter the **DHCP Clients** screen. Here you can view the host name, IP address, MAC address, and lease time information.

The screenshot shows the Tenda web management interface. At the top, there's a navigation bar with tabs: Home, Status, Network, Wireless, Advanced, Security, and Tools. The 'Network' tab is selected. On the left, a sidebar menu lists various network settings, with 'DHCP Clients' highlighted. The main content area is titled 'DHCP Client List' and contains a table with columns: Host, IP Address, MAC Address, and Lease Time. Below the table is a 'Refresh' button. To the right of the table, there's a 'Helpful Hints' section explaining that the list displays IP addresses, MAC addresses, host names, and other info of connected clients, and advises refreshing to see the latest info.



Tip-----

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

2.7 Static Assignment

Click **Network -> Static Assignment**. Here 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 make a PC at the MAC address of 44:37:E6:4F:37:3B always receive the same IP address of 192.168.0.123.

Configuration Procedures:

- ① Enter the IP address: 192.168.0.123.
- ② Enter the MAC address of 44:37:E6:4F:37:3B.
- ③ Click **Add**.

The screenshot displays the Tenda router's web interface for configuring static IP assignments. The top navigation bar includes links for Home, Status, Network, Wireless, Advanced, Security, and Tools. The left sidebar lists various network settings, with 'Static Assignment' currently selected. The main content area is titled 'Static Assignment' and contains two input fields: 'IP Address' with the value '192.168.0.123' and 'MAC Address' with the value '44:37:E6:4F:37:3B'. Below these fields are 'Add', 'Save', and 'Cancel' buttons. A 'Helpful Hints' section on the right provides instructions on how to use the static assignment feature, explaining that it allows assigning a fixed IP address to a specific device based on its MAC address.

Static Assignment

IP Address: 192.168.0.123

MAC Address: 44 : 37 : E6 : 4F : 37 : 3B

Add Save Cancel

Helpful Hints

If you would like some devices on your network to always receive fixed IP addresses, you can manually add a static DHCP assignment entry for each such device. And then whenever each such host at a registered MAC address requests a IP address from the DHCP server, it will always be assigned with the same IP address (the one you specified on this section)

IP Address: Enter an IP address you want to assign to a specific computer or device.

MAC Address: Enter the MAC address of the computer or device to which you want DHCP server to assign the same IP address.

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

The screenshot shows the Tenda web interface for a Wireless AC1200 Dual Band Router. The top navigation bar includes Home, Status, Network, Wireless, Advanced, Security, and Tools. The left sidebar lists various settings: LAN, WAN, Port Mode, MAC Clone, DHCP Server, DHCP Clients, Static Assignment (highlighted), DHCP - Guest Network, and Client List - Guest Network. The main content area is titled 'Static Assignment' and contains fields for IP Address and MAC Address, an 'Add' button, and a table with columns ID, IP Address, MAC Address, and Action. The table has one entry with ID 1, IP Address 192.168.0.123, and MAC Address 44:37:E6:4F:37:3B. Below the table are 'Save' and 'Cancel' buttons. On the right, there is a 'Helpful Hints' section with text explaining static DHCP assignment and definitions for IP and MAC addresses.

ID	IP Address	MAC Address	Action
1	192.168.0.123	44:37:E6:4F:37:3B	Edit Delete



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 has already obtained IP addresses, you may need to perform the Repair action to activate the configured static IP addresses.

2.8 DHCP Server - Guest Network

Click **Network -> DHCP - Guest Network** to enter the guest network DHCP server screen. If you enable the built-in DHCP server for Guest Network on this device, it will automatically configure TCP/IP protocol settings for all DHCP-Client-enabled PCs on the Guest Network, including IP address, subnet mask, gateway and DNS etc.

Configuration Procedures:

- ① Click **Enable**.
- ② **Start IP Address:** Specify the start of the range for the pool of IP addresses in the same subnet as the device.

End IP Address: Specify the end of the range for the pool of IP addresses in a different subnet as the device.

③ Click **Save** to save your settings.

Tenda Version: V1.0.0.2 (7514) Product Name: Wireless AC1200 Dual Band Router

Home Status **Network** Wireless Advanced Security Tools

LAN WAN Port Mode MAC Clone DHCP Server DHCP Clients Static Assignment **DHCP - Guest Network** Client List - Guest Network

DHCP Server - Guest Network

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

DHCP Server ☒ Disable ☐ Enable

Start IP Address: 192.168.2.100

End IP Address: 192.168.2.200

Primary DNS Server: 192.168.2.1

Secondary DNS Server:

Lease Time: 1 day

Save Cancel

Helpful Hints

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 device, it will automatically configure TCP/IP protocol settings for all PCs on Guest Network, including IP address, subnet mask, gateway and DNS etc.

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

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

Note: To apply the DHCP server settings to all PCs on Guest Network, you must set all such PCs to "Obtain an IP address automatically" and "Obtain DNS server address".

Click **Network -> Client List - Guest Network** to enter the guest network DHCP client list screen. This section displays a guest network DHCP dynamic client list, which includes host name, IP address, MAC address and lease time info.

Refresh: Click to update the page.

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Home Status **Network** Wireless Advanced Security Tools

LAN WAN Port Mode MAC Clone DHCP Server DHCP Clients Static Assignment DHCP - Guest Network **Client List - Guest Network**

DHCP Client List - Guest Network

To view latest info of Guest Network clients, click the "Refresh" button.

Host	IP Address	MAC Address	Lease Time
Refresh			

Helpful Hints

This section displays info of the Guest Network clients that are currently connected to your router. To view latest info, click the "Refresh" button.



3 Wireless Settings

3.1 Wireless-Basic

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



Tip

If you are not an advanced user, it is advisable to only change the SSID (name of the network) and channel and leave other items unchanged.

Tenda Version: V1.0.0.2 (7514)
Product Name: Wireless AC1200 Dual Band Router

Home Status Network **Wireless** Advanced Security Tools

Basic
Guest Network
Security
Advanced
Wireless Access Control
Wireless Extender
WPS
Wireless Connection Status

Basic Settings

Use this section to configure wireless basic settings.

Band: 2.4GHz

2.4GHz Wireless: ☒ Enable

Country: ALL

SSID Broadcast: ☒ Enable ☐ Disable

SSID: Tenda_01703D

802.11 Mode: 11b/g/n mixed

Channel: Auto

Channel Bandwidth: ☐ 20 ☒ 20/40

Extension Channel: Auto

Save Cancel

Helpful Hints

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 from defaults.

SSID: Service Set Identifier, the unique name of a wireless network. You can change it from default to secure your wireless network.

Channel: For an optimal wireless performance, you may select the least interferential channel or "Auto Select" to let the device select the best possible channel for your wireless network to operate on.

Broadcast SSID: When it is enabled, your wireless network is visible to any

Configuration Procedures:

- ① **Band:** Select 2.4GHz or 5GHz.
- ② **Primary SSID:** This is the public name of your wireless network.
- ③ **Channel:** Select a channel or select Auto to let system automatically select one for your wireless network to operate on if you are unsure. The best selection is a channel that is the least used by neighboring networks.
- ④ Click **Save** to save your settings.



Knowledge Center

1. **802.11 Mode (Network Mode):** Select a correct mode according to your



wireless clients.

- **11b:** This network mode delivers wireless speed up to 11Mbps and is only compatible with 11b wireless clients.
- **11g:** This network mode delivers wireless speed up to 54Mbps and is only compatible with 11g wireless clients.
- **11b/g mixed:** This network mode delivers wireless speed up to 54Mbps and is compatible with 11b/g wireless clients.
- **11b/g/n mixed:** This network mode delivers wireless speed up to 300Mbps and is compatible with 11b/g/n wireless clients.
- **11ac :** This network mode delivers wireless speed up to 867Mbps.

2. SSID Broadcast: This option allows you to have your network names (SSIDs) publicly broadcast or if you choose to disable it, the SSIDs will be hidden.

3. Channel Bandwidth: Select a proper channel bandwidth to enhance wireless performance. This option is available only in 802.11b/g/n. Wireless speed in the channel bandwidth of 20/40 is 2 times in 20.

4. Extension Channel: This is used to ensure N speeds for 802.11n devices on the network. This option is available only in 11b/g/n mixed mode with channel bandwidth of 20/40.

3.2 Guest Network

Click **Wireless -> Guest Network** to enter the Guest Network screen. The Guest Network feature allows guests to access the Internet and other users on the guest network while disallowing them to access Device web manager, users on master network and clients behind the LAN ports. Thus the wireless master network is secured.

Configuration Procedures:

- ① **Band:** Select 2.4GHz or 5GHz.
- ② **Guest Network:** Select whether to enable or disable the Guest Network feature. It is disabled by default.

③ Click **Save** to save your settings.



Version V1.0.0.2 (7514)
Product Name Wireless AC1200 Dual Band Router

Home

Status

Network

Wireless

Advanced

Security

Tools

Basic

Guest Network

Security

Advanced

Wireless Access Control

Wireless Extender

WPS

Wireless Connection Status

Guest Network

Band

2.4GHz

Guest Network

☐ Enable

SSID Broadcast

☒ Enable

AP Isolation

☐ Enable

Guest Network SSID

Tenda_Guest_01703E

Save

Cancel

Helpful Hints

Enable Guest Network:
The Guest Network feature allows guests to access Internet and other users on the guest network while disallowing them to access device web manager, clients and services on primary network.

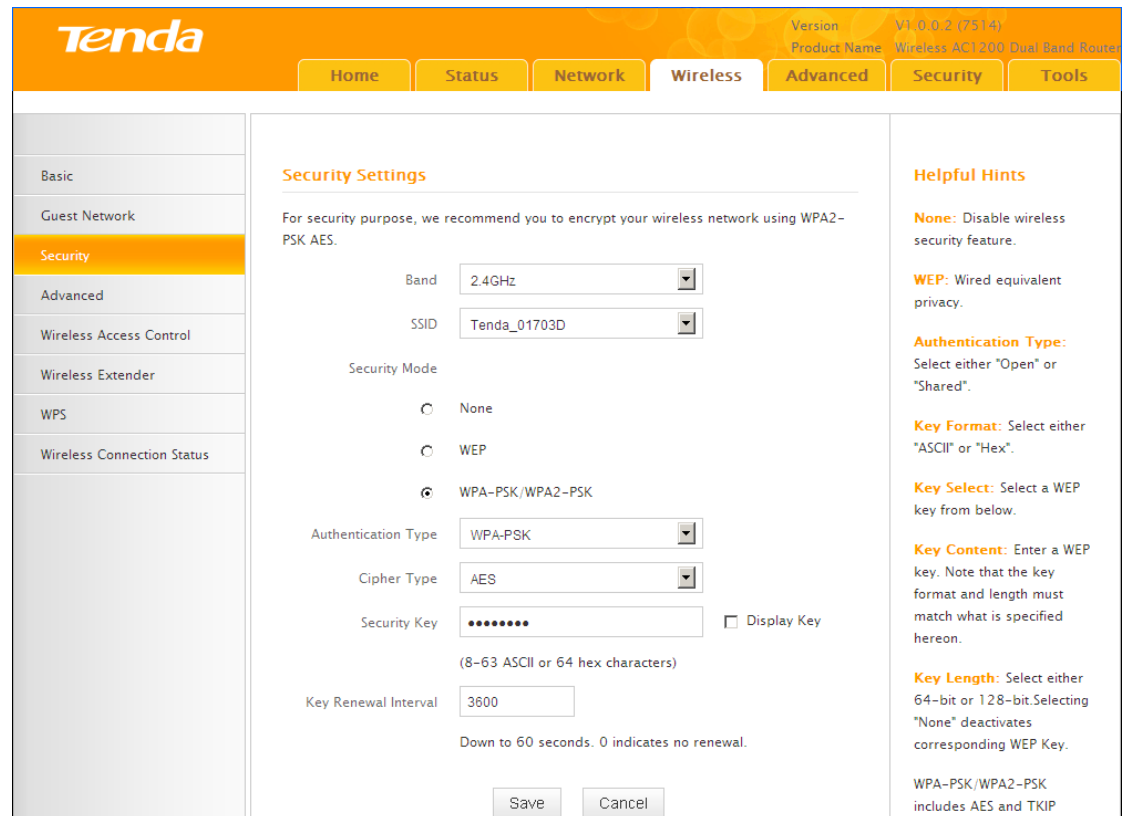
Broadcast SSID: When it is enabled, your wireless network is visible to any wireless clients within coverage when they scan for a wireless network; when disabled, your guest wireless network is invisible and thus secure.

AP Isolation: If enabled, clients connecting to the guest network will be mutually inaccessible.

Guest Network SSID:
Service Set Identifier, the unique name of a wireless

3.3 Security

Click **Wireless** -> **Security** to enter the **Security** screen. Here you can define a security key to secure your wireless network against unauthorized accesses.



Tenda Version: V1.0.0.2 (7514) Product Name: Wireless AC1200 Dual Band Router

Home Status Network **Wireless** Advanced **Security** Tools

Basic
Guest Network
Security
Advanced
Wireless Access Control
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Wireless Connection Status

Security Settings

For security purpose, we recommend you to encrypt your wireless network using WPA2-PSK AES.

Band: 2.4GHz

SSID: Tenda_01703D

Security Mode:

☐ None

☐ WEP

☒ WPA-PSK/WPA2-PSK

Authentication Type: WPA-PSK

Cipher Type: AES

Security Key: ☐ Display Key

(8-63 ASCII or 64 hex characters)

Key Renewal Interval: 3600

Down to 60 seconds. 0 indicates no renewal.

Save Cancel

Helpful Hints

None: Disable wireless security feature.

WEP: Wired equivalent privacy.

Authentication Type: Select either "Open" or "Shared".

Key Format: Select either "ASCII" or "Hex".

Key Select: Select a WEP key from below.

Key Content: Enter a WEP key. Note that the key format and length must match what is specified hereon.

Key Length: Select either 64-bit or 128-bit. Selecting "None" deactivates corresponding WEP Key.

WPA-PSK/WPA2-PSK includes AES and TKIP

To secure your wireless network

- ① Select a band, for example, 2.4GHz.
- ② Select the wireless network (SSID) you wish to encrypt.
- ③ Select a security mode, cipher type configure a security key.
- ④ Click **Save** to save your settings.



Tip-----

For better security, compatibility and wireless speed, we recommend the WPA-PSK and AES.



1. **WEP:** Wireless speed can reach up to 54Mbps if WEP - Open is selected.
 2. **Key Select:** Select a key to be effective for the current WEP encryption. For example, if you select Key 1, wireless clients must join your wireless network using this Key 1.
 4. **WPA-PSK :** WPA personal, support AES and TKIP+AES cipher types.
 5. **WPA2-PSK :** WPA2 personal, support AES and TKIP+AES cipher types.
 6. **WPA/WPA2-PSK mixed:** If selected, both WPA-PSK and WPA2-PSK secured wireless clients can join your wireless network.
 7. **AES:** If selected, wireless speed can reach up to 300Mbps.
 8. **TKIP:** If selected, wireless speed can reach up to 54Mbps.
 9. **TKIP+AES:** If selected, both AES and TKIP secured wireless clients can join your wireless network.
-

3.4 Advanced

Click **Wireless -> Advanced** to configure the advanced wireless settings. This section allows you to configure advanced settings, including AP Isolation, Beacon interval, Fragment threshold, RTS threshold and DTIM interval, etc., for your wireless networks. Normally, the default settings will work. If not, change them according to the suggestions given by your ISP or Tenda technical staff.

Tenda

Version: V1.0.0.2 (7514)
 Product Name: Wireless AC1200 Dual Band Router

Home
Status
Network
Wireless
Advanced
Security
Tools

Basic

Guest Network

Security

Advanced

Wireless Access Control

Wireless Extender

WPS

Wireless Connection Status

Advanced-Wireless

Band

2.4GHz

AP Isolation

☐

Beacon Interval

100

ms (Range: 20 - 999; Default: 100)

Fragment Threshold

2346

(Range: 256 - 2346; Default: 2346)

RTS Threshold

2347

(Range: 1 - 2347; Default: 2347)

DTIM Interval

1

(Range: 1 - 255; Default: 1)

Short GI

☒ Enable
 ☐ Disable

WMM Capable

☒ Enable
 ☐ Disable

APSD Capable

☐ Enable
 ☒ Disable

Save

Cancel

Helpful Hints

This section allows you to config advanced wireless settings. It is advisable to leave the options unchanged from defaults if you are not clear about how to config them.

Beacon Interval: A time interval between any 2 consecutive Beacon packets sent by device. Available values are between 20 and 999. Do NOT change the default value of 100 unless necessary.

Fragment Threshold: Max size of a packet to transmit. Enter a Fragment Threshold (256-2346). Any wireless packet exceeding such set value will be divided into several fragments. DO NOT change the default value of 2346 unless necessary.

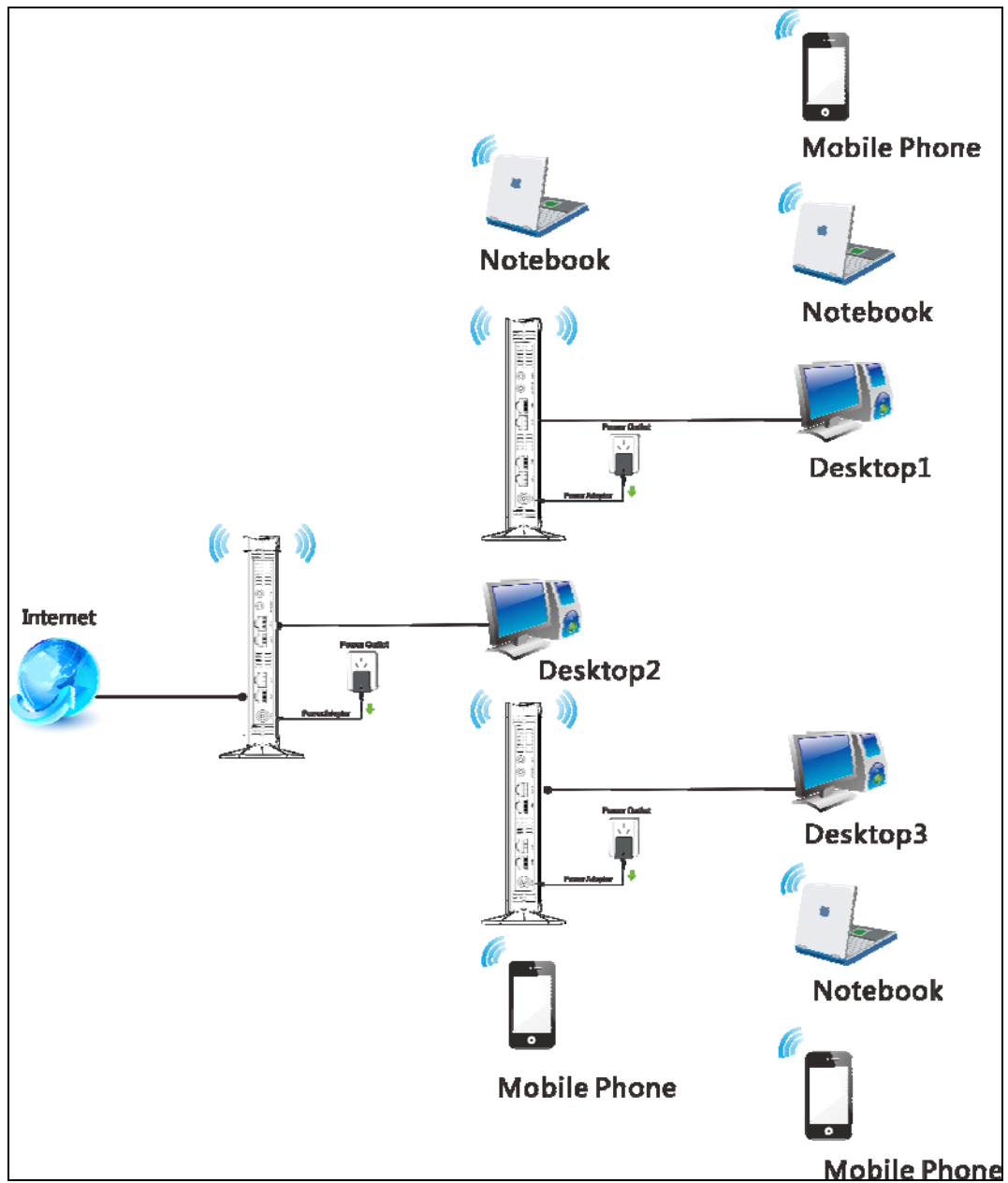
Knowledge Center -----

- 1 **AP Isolation:** Isolates clients connecting to the primary SSID.
- 2 **Beacon Interval:** A time interval between any 2 consecutive Beacon packets sent by an Access Point to synchronize a wireless network. Do NOT change the default value of 100 unless necessary.
- 3 **Fragment Threshold:** Specify a Fragment Threshold value. Any wireless packet exceeding the preset value will be divided into several fragments before transmission. DO NOT change the default value of 2346 unless necessary.
- 4 **RTS Threshold:** If a packet exceeds such set value, RTS/CTS scheme will be used to reduce collisions. Set it to a smaller value provided that there are distant clients and interference. For normal SOHO, it is recommended to keep the default value unchanged; otherwise, device performance may be degraded.
- 5 **DTIM Interval:** A DTIM (Delivery Traffic Indication Message) Interval is a countdown informing clients of the next window for listening to broadcast and multicast messages. When the packets arrive in the router's buffer, the router will send DTIM (delivery traffic indication message) and DTIM interval to alert clients of the receiving packets.

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3.6 Wireless Extender

Use this wireless extender feature to extend your existing wireless network.





Click **Wireless** -> **Wireless Extender** to enter the following screen.

Version: V3.0.0.2 (7514)
Product Name: Wireless AC1200 Dual Band Router

Home Status Network **Wireless** Advanced Security Tools

Basic
Guest Network
Security
Advanced
Wireless Access Control
Wireless Extender
WPS
Wireless Connection Status

Wireless Extender

Band: 2.4GHz
Mode: Disable

Save Cancel

Helpful Hints

Enabling WDS or Universal Repeater automatically disables the WPS feature.

Enabling WISP Mode automatically disables the WPS feature, WAN MAC clone, Secondary SSID, and Guest Network.

Universal Repeater: In this mode, the router will relay data to an associated root AP and AP function is enabled meanwhile. The wireless repeater relays signal between its stations and the root AP for greater wireless range.

WISP Mode: In this mode the router acquires Internet access from a wireless Access Point. This method requires you to set the wireless name of Access Point, Channel and Security to match the wireless Access

This device provides three modes to extend your wireless network:

- To extend your wireless network using the universal repeater feature, see [Universal Repeater](#).
- To extend your wireless network using the WISP client router (wireless WAN) feature, see [WISP Mode](#).
- To establish Wireless Distribution System and extend your wireless network, see [WDS](#).

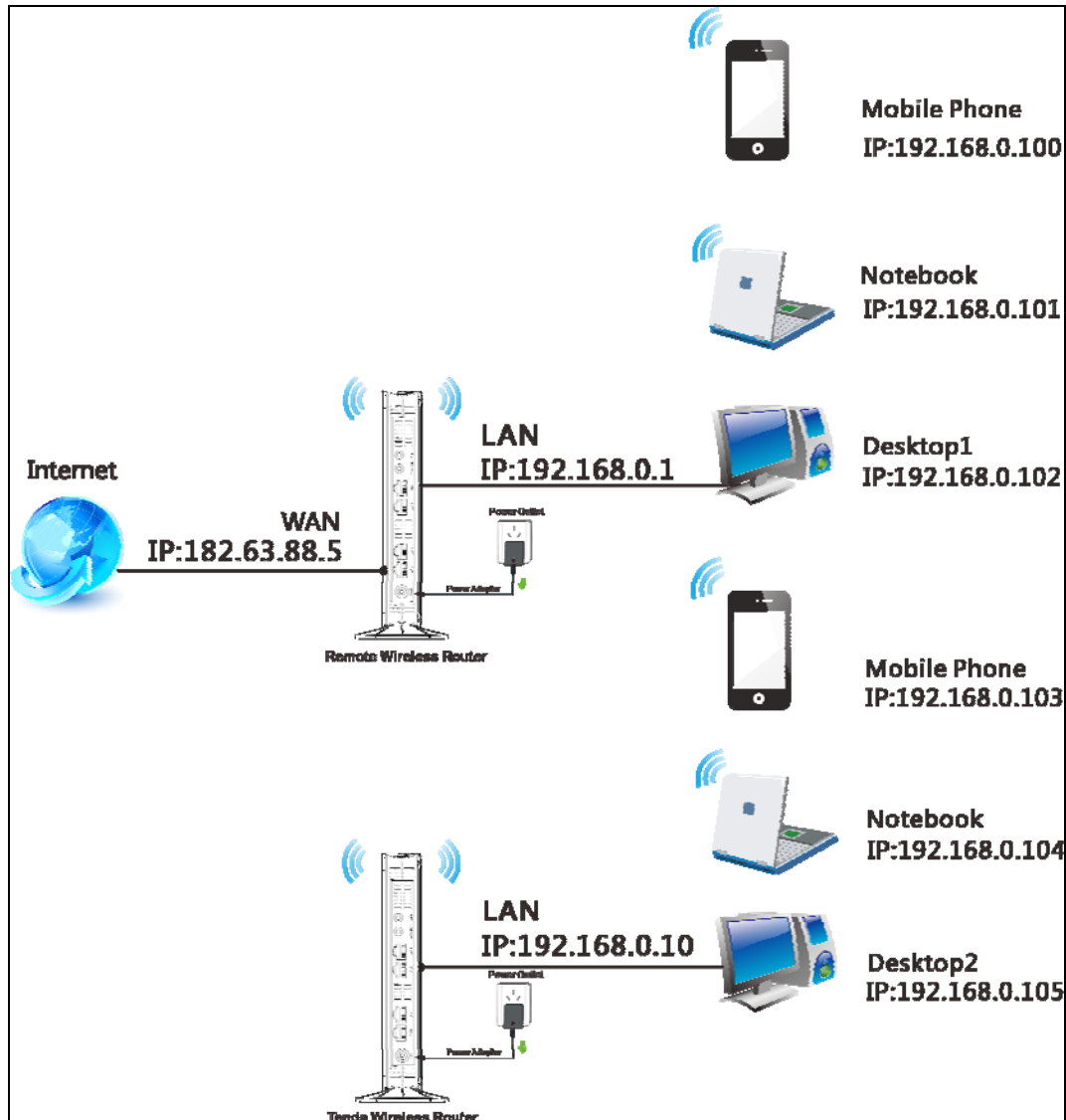


Tip-----

If "**Disable**" is selected, the wireless extender feature will be deactivated.

Universal Repeater Mode

Universal Repeater: Use this universal repeater mode to extend your existing wireless network. The application scenario is shown in the figure below:



In this mode, you only need to configure the following settings on the Tenda wireless router:

- Configure LAN IP: Specify an IP address that is in the same subnet as yet different from the remote wireless router for this Tenda wireless router.
- Universal Repeater: Configure this router to bridge the remote wireless router for extended network coverage.



Tip -----



Before you start, **make sure you have the following information:**

1. Remote router's SSID, security mode, cipher type and security key.
 2. Remote router's LAN IP address.
 3. No Ethernet cable is connected to this Tenda wireless router's WAN port.
-

Universal Repeater Application Example:

Assuming the remote wireless router has the following information:

SSID : Tenda_0FF02D

Security Mode: WPA-PSK

Cipher Type: AES

Security Key: 12345678

LAN IP Address: 192.168.0.1

Configuration Procedures:

- ① Click **Network** -> **LAN** to configure an IP address that is in the same subnet as yet different from the remote wireless router for this Tenda wireless router.

Tenda Version: V1.0.0.2 (2514) Product Name: Wireless AC1200 Dual Band Router

Home Status **Network** Wireless Advanced Security Tools

LAN

WAN

Port Mode

MAC Clone

DHCP Server

DHCP Clients

Static Assignment

DHCP - Guest Network

Client List - Guest Network

LAN Settings

Use this section to configure your router's LAN IP settings.

MAC Address 00:90:4C:01:60:3D

IP Address

Subnet Mask

Save Cancel

Helpful Hints

IP Address: Router's LAN IP address. All LAN PC's default gateway must be set to this address.

Subnet Mask: Router's LAN subnet mask, commonly, 255.255.255.0. All LAN PC's subnet mask must be set to this value.

Note: 1. If you change the LAN IP address, you must use the new one to log on to the web utility.

2. If the new LAN IP is not on the same net segment with the old one, DHCP server will automatically update its IP settings accordingly while old virtual server and DMZ settings will become inoperative; to re-activate such, you must renew the IP settings thereof.

- ② Click **OK** in the appearing screen.
- ③ Select **Universal Repeater** and click **Open Scan**.

Tenda

Version V1.0.0.2 (7514)
 Product Name Wireless AC1200 Dual Band Router

Home
Status
Network
Wireless
Advanced
Security
Tools

- Basic
- Guest Network
- Security
- Advanced
- Wireless Access Control
- Wireless Extender
- WPS
- Wireless Connection Status

Wireless Extender

Band
2.4GHz

Mode
Universal Repeater

Remote SSID

Channel
Auto

Remote MAC Address

Security Mode
None

Helpful Hints

Enabling WDS or Universal Repeater automatically disables the WPS feature.

Enabling WISP Mode automatically disables the WPS feature, WAN MAC clone, Secondary SSID, and Guest Network.

Universal Repeater: In this mode, the router will relay data to an associated root AP and AP function is enabled meanwhile. The wireless repeater relays signal between its stations and the root AP for greater wireless range.

WISP Mode: In this mode the router acquires Internet access from a wireless Access Point. This method requires you to set the wireless name of Access Point, Channel and Security to match the wireless Access

④ Select the remote router's wireless network (SSID) and click **Close Scan**.

Tenda

Version V1.0.0.2 (7514)
 Product Name Wireless AC1200 Dual Band Router

Home
Status
Network
Wireless
Advanced
Security
Tools

- Basic
- Guest Network
- Security
- Advanced
- Wireless Access Control
- Wireless Extender
- WPS
- Wireless Connection Status

Wireless Extender

Band
2.4GHz

Mode
Universal Repeater

Remote SSID

Channel
Auto

Remote MAC Address

Security Mode
None

Sel...	SSID	MAC Address	Ch...	Channel	Bandwidth	Security	Signal Intensity
☐	Tenda_0FF02D	C8:3A:35:00:02:94	11	40 MHz		WPA	-82 dBm

Helpful Hints

Enabling WDS or Universal Repeater automatically disables the WPS feature.

Enabling WISP Mode automatically disables the WPS feature, WAN MAC clone, Secondary SSID, and Guest Network.

Universal Repeater: In this mode, the router will relay data to an associated root AP and AP function is enabled meanwhile. The wireless repeater relays signal between its stations and the root AP for greater wireless range.

⑤ The SSID, channel, MAC address, security mode and cipher type of the remote router will be added automatically on this page. You only need to enter the security key and click **Save**.

Tenda Version: V1.0.0.2 (7514) Product Name: Wireless AC1200 Dual Band Router

Home Status Network **Wireless** Advanced Security Tools

Basic Guest Network Security Advanced Wireless Access Control **Wireless Extender** WPS Wireless Connection Status

Wireless Extender

Band: 2.4GHz
 Mode: Universal Repeater
 Remote SSID: Tenda_OFF02D
 Channel: 2462MHz (Channel 11)
 Remote MAC Address: C8:3A:35:00:02:94
 Security Mode: WPA-PSK/WPA2-PSK
 Authentication Type: WPA-PSK
 Cipher Type: AES
 Security Key: [masked] ☐ Display Key
 (8-63 ASCII or 64 hex characters)

Open Scan

Save Cancel

Helpful Hints

Enabling WDS or Universal Repeater automatically disables the WPS feature.

Enabling WISP Mode automatically disables the WPS feature, WAN MAC clone, Secondary SSID, and Guest Network.

Universal Repeater: In this mode, the router will relay data to an associated root AP and AP function is enabled meanwhile. The wireless repeater relays signal between its stations and the root AP for greater wireless range.

WISP Mode: In this mode the router acquires Internet access from a wireless Access Point. This method requires you to set the wireless name of Access Point, Channel and Security to match the wireless Access

⑥ Click **Reboot** to take configurations into effect.

Tenda Version: V1.2.0.8 (8153) Product Name: Wireless AC1200 Dual Band Router

Home Status Network **Wireless** Advanced Security Tools

Basic Guest Network Security Advanced Wireless Access Control **Wireless Extender** WPS Wireless Connection Status

Hints

To activate new settings, you must reboot the device.

Continue Reboot

Helpful Hints

Enabling WDS or Universal Repeater automatically disables the WPS feature.

Enabling WISP Mode automatically disables the WPS feature, WAN MAC clone, and Guest Network.

Universal Repeater: In this mode, the router will relay data to an associated root AP and AP function is

Note -----

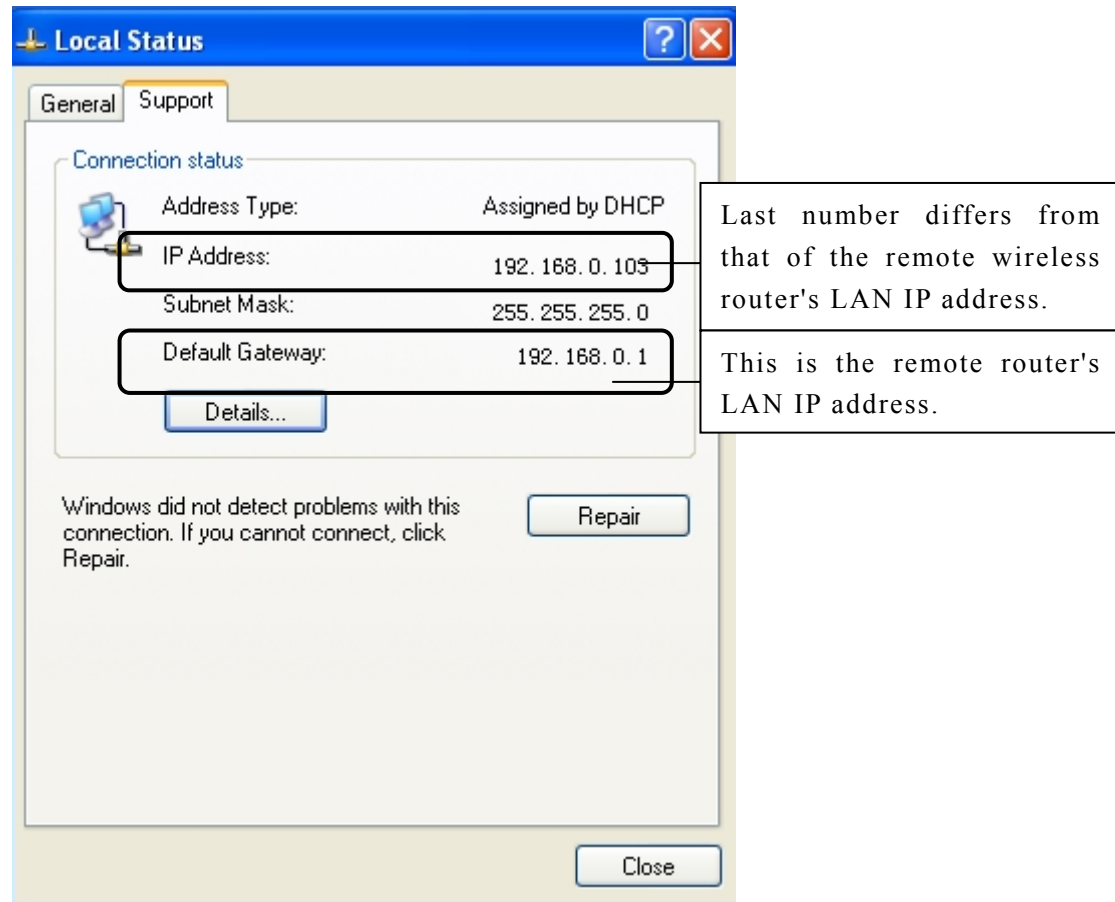
When the Universal Repeater is configured successfully, wireless clients can connect to this Tenda wireless router's SSID for Internet access.

Verify Bridge Connectivity:

- ① Connect your PC to this Tenda wireless router via a wired or wireless connection and set it to "Obtain an IP address automatically". If you are not

clear, see [Appendix 1 Configure PC TCP/IP Settings](#).

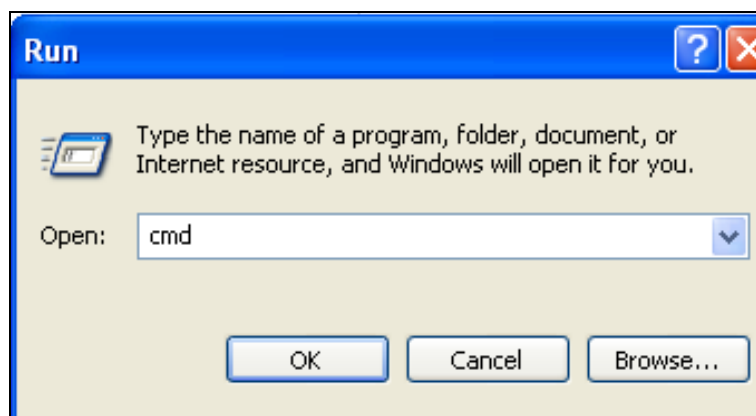
- ② Wait until your PC successfully obtains an IP address.



- ③ Click **Start -> Run**.



- ④ Enter **cmd** and click **OK**.



- ⑤ Enter "ping default gateway IP address". Here in this example, enter "ping 192.168.0.1" and press Enter. If you see a similar screen, the bridge is established successfully.

```

C:\WINDOWS\system32\cmd.exe
Microsoft Windows [Version 5.2.3790]
(C) Copyright 1985-2003 Microsoft Corp.

C:\Documents and Settings\user>ping 192.168.0.1

Pinging 192.168.0.1 with 32 bytes of data:

Reply from 192.168.0.1: bytes=32 time<1ms TTL=64
Reply from 192.168.0.1: bytes=32 time<1ms TTL=64
Reply from 192.168.0.1: bytes=32 time<1ms TTL=64
Reply from 192.168.0.1: bytes=32 time<1ms TTL=64

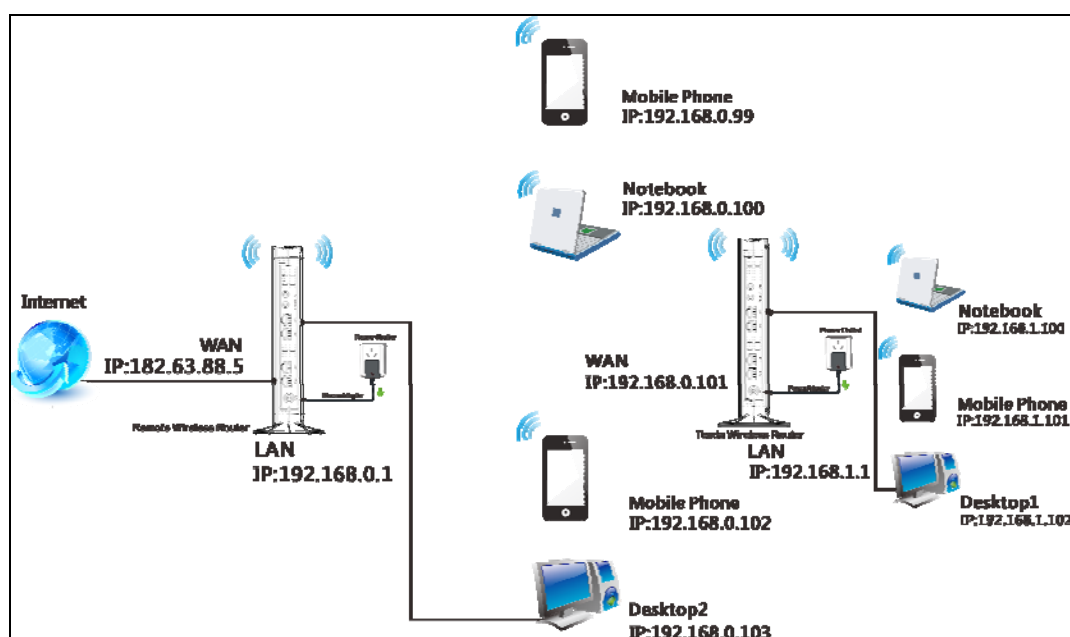
Ping statistics for 192.168.0.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\Documents and Settings\user>

```

WISP Client Router Mode

WISP Mode: This is the WISP (Wireless Internet Service Provider) Client Router Mode. In this mode the router acquires Internet access from your WISP AP or a wireless Access Point on an existing network. Below shows the typical topology:



In this mode, you only need to configure the following settings on this Tenda wireless router:

- **WISP Mode Setup:** This mode establishes a wireless connection between the wireless LAN interface of the remote wireless router and the wireless WAN interface of your Tenda wireless router.



- Internet Setup: Configure this Tenda router to access the Internet.

**Tip**

Before you start, make sure you have the following information:

1. Configure IP address of the two linking routers into two different network segments.
1. Remote router's SSID, security mode, cipher type and security key.
2. Internet connection information provided by the remote wireless router.
3. No Ethernet cable is connected to the Tenda wireless router's WAN port.

WISP mode (Wireless WAN feature) Application Example:

Assuming the remote wireless router provides the following information:

SSID: Tenda_home

Security Mode: WPA-PSK

Cipher Type: AES

Security Key: 12345678

LAN IP address: 192.168.0.1

Internet Connection Type (for client): DHCP (dynamic IP)

Configuration Procedures:

- ① Click **Network** -> **WAN** to configure the Internet connection.

Tenda

Version: V1.0.0.2 (7514)
 Product Name: Wireless AC1200 Dual Band Router

Home
Status
Network
Wireless
Advanced
Security
Tools

LAN

WAN

Port Mode

MAC Clone

DHCP Server

DHCP Clients

Static Assignment

DHCP - Guest Network

Client List - Guest Network

WAN Settings

Connection Type

Dynamic IP

MTU

1450

(Default: 1450)

Save

Cancel

Helpful Hints

Dynamic IP: Select it to obtain IP settings automatically for Internet connection if your ISP does not give you any IP or account info.

Static IP: Select it if your ISP provides you with IP info. Enter IP address, subnet mask, Primary DNS and secondary DNS info, etc provided by your ISP in corresponding fields.

PPPoE: Select it if your ISP is using a PPPoE connection and enter PPPoE user name and password info provided by your ISP.

MTU: Maximum Transmission Unit. The default value varies according to different Internet connection types. DO NOT change it unless necessary.



- ② Click **Wireless -> Wireless Extender**, select **WISP Mode** and click **Open Scan**.

Wireless Extender

Band: 2.4GHz

Mode: WISP Mode

Remote SSID:

Channel: 2462MHz (Channel 11)

Remote MAC Address:

Security Mode: None

Open Scan

Save Cancel

Helpful Hints

Enabling WDS or Universal Repeater automatically disables the WPS feature.

Enabling WISP Mode automatically disables the WPS feature, WAN MAC clone, Secondary SSID, and Guest Network.

Universal Repeater: In this mode, the router will relay data to an associated root AP and AP function is enabled meanwhile. The wireless repeater relays signal between its stations and the root AP for greater wireless range.

WISP Mode: In this mode the router acquires Internet access from a wireless Access Point. This method requires you to set the wireless name of Access Point, Channel and Security to match the wireless Access

- ③ Select the remote router's wireless network (SSID) and click **Close Scan**.

Wireless Extender

Band: 2.4GHz

Mode: WISP Mode

Remote SSID:

Channel: 2462MHz (Channel 11)

Remote MAC Address:

Security Mode: None

Close Scan

Sel...	SSID	MAC Address	Ch...	Channel Bandwidth	Security	Signal Intensity
☐	Tenda_130518	C8-3A-35-13-05-18	6	40 MHz	WPA2	-69 dBm
☐	Tenda_07A050	C8-3A-35-07-A0-50	7	40 MHz	none	-74 dBm

Helpful Hints

Enabling WDS or Universal Repeater automatically disables the WPS feature.

Enabling WISP Mode automatically disables the WPS feature, WAN MAC clone, Secondary SSID, and Guest Network.

Universal Repeater: In this mode, the router will relay data to an associated root AP and AP function is enabled meanwhile. The wireless repeater relays signal between its stations and the root AP for greater wireless range.

WISP Mode: In this mode

- ④ The SSID, channel, MAC address, security mode and cipher type of the remote AP will be added automatically on this page. You only need to enter the security key and click **Save**.

Tenda Version: V1.0.0.2 (7514)
Product Name: Wireless AC1200 Dual Band Router

Home Status Network **Wireless** Advanced Security Tools

Basic
Guest Network
Security
Advanced
Wireless Access Control
Wireless Extender
WPS
Wireless Connection Status

Wireless Extender

Band: 2.4GHz
Mode: WISP Mode
Remote SSID: Tenda_130518
Channel: 2437MHz (Channel 6)
Remote MAC Address: C8:3A:35:13:05:18
Security Mode: WPA-PSK/WPA2-PSK
Authentication Type: WPA2-PSK
Cipher Type: AES
Security Key: ☐ Display Key
(8-63 ASCII or 64 hex characters)

Re-scan

Save Cancel

Helpful Hints

Enabling WDS or Universal Repeater automatically disables the WPS feature.

Enabling WISP Mode automatically disables the WPS feature, WAN MAC clone, Secondary SSID, and Guest Network.

Universal Repeater: In this mode, the router will relay data to an associated root AP and AP function is enabled meanwhile. The wireless repeater relays signal between its stations and the root AP for greater wireless range.

WISP Mode: In this mode the router acquires Internet access from a wireless Access Point. This method requires you to set the wireless name of Access Point, Channel and Security to match the wireless Access

- ⑤ Click **Reboot** on the appearing screen to reboot the router.

Tenda Version: V1.0.0.2 (7514)
Product Name: Wireless AC1200 Dual Band Router

Home Status Network **Wireless** Advanced Security Tools

Basic
Guest Network
Security
Advanced
Wireless Access Control
Wireless Extender

Hints

To activate new settings, you must reboot the device.

Continue **Reboot**

Helpful Hints

Enabling WDS or Universal Repeater automatically disables the WPS feature.

Enabling WISP Mode automatically disables the WPS feature, WAN MAC clone, Secondary SSID, and Guest Network.



- ⑥ System automatically enters the login window after reboot. Reaccess to the device.

The login window for the Tenda Wireless AC1200 Dual Band Router. It features a title bar with the product name. Below it, there is a 'Password' label, a text input field containing five dots, and a note '(Default:admin)'. At the bottom, there are two buttons: 'Login' and 'Cancel'.

- ⑦ Click **Status** -> **WAN Status** to check the WAN status.

The screenshot shows the Tenda router's web management interface. The top navigation bar includes the Tenda logo, a version string 'V1.0.0.2 (7514)', and a product name 'Wireless AC1200 Dual Band Router'. Below this is a menu with 'Home', 'Status', 'Network', 'Wireless', 'Advanced', 'Security', and 'Tools'. The 'Status' menu is active, and a sidebar on the left lists 'System Status', 'WAN Status' (highlighted), 'LAN Status', 'Wireless Status', and 'Connection Status'. The main content area displays the 'WAN Status' page, which lists various network parameters and their values.

WAN Status	
WAN Medium Type	2.4GHz WISP
Connection Type	Dynamic IP
Connection Status	Connecting...
MAC Address	00-90-4C-01-70-3D
IP Address	192.168.30.176
Subnet Mask	255.255.255.0
Gateway	192.168.30.1
Primary DNS Server	192.168.30.1
Secondary DNS Server	0.0.0.0
Connection Duration	0Day(s)01:30:27

At the bottom of the WAN Status section are two buttons: 'Release' and 'Refresh'. To the right of the WAN Status table is a 'Helpful Hints' section with the text: 'This section displays WAN port status.'



- ① If the WAN Connection Status keeps displaying "Connecting....", change the LAN IP address of this router to a different subnet from the remote router's LAN IP address.

Tenda Version V3.0.0.2 (2514)
Product Name Wireless AC1200 Dual Band Router

Home Status **Network** Wireless Advanced Security Tools

LAN
WAN
Port Mode
MAC Clone
DHCP Server
DHCP Clients
Static Assignment
DHCP - Guest Network
Client List - Guest Network

LAN Settings

Use this section to configure your router's LAN IP settings.

MAC Address 00:90:4C:01:60:3D
IP Address 192.168.1.1
Subnet Mask 255.255.255.0

Save Cancel

Helpful Hints

IP Address: Router's LAN IP address. All LAN PC's default gateway must be set to this address.

Subnet Mask: Router's LAN subnet mask, commonly, 255.255.255.0. All LAN PC's subnet mask must be set to this value.

Note: 1. If you change the LAN IP address, you must use the new one to log on to the web utility.
2. If the new LAN IP is not on the same net segment with the old one, DHCP server will automatically update its IP settings accordingly while old virtual server and DMZ settings will become inoperative; to re-activate such, you must renew the IP settings thereof.

- ② Click **OK** on the appearing screen to reboot the router.

- ③ Click **Reboot** on the appearing screen to reboot the router.

Tenda Version: V1.0.0.2 (7514) Product Name: Wireless AC1200 Dual Band Router

Home Status **Network** Wireless Advanced Security Tools

LAN

WAN

Port Mode

MAC Clone

DHCP Server

DHCP Clients

Static Assignment

DHCP – Guest Network

Client List – Guest Network

Hints

To activate new settings, you must reboot the device.

Continue Reboot

Helpful Hints

IP Address: Router's LAN IP address. All LAN PC's default gateway must be set to this address.

Subnet Mask: Router's LAN subnet mask, commonly, 255.255.255.0. All LAN PC's subnet mask must be set to this value.

Note: 1. If you change the LAN IP address, you must use the new one to log on to the web utility.
2. If the new LAN IP is not on the same net segment with the old one, DHCP server will automatically update its IP settings accordingly while old virtual server and DMZ settings will become inoperative; to re-activate such, you must renew the IP settings thereof.

System automatically enters the Status screen after reboot. Check the WAN Connection Status, if it displays "Connected", you have successfully connected to Internet.

Tenda Version: V1.0.0.2 (7514) Product Name: Wireless AC1200 Dual Band Router

Home **Status** Network Wireless Advanced Security Tools

System Status

WAN Status

LAN Status

Wireless Status

Connection Status

WAN Status

WAN Medium Type 2.4GHz WISP

Connection Type Dynamic IP

Connection Status **Connected**

MAC Address C8:3A:35:00:01:CC

IP Address 192.168.0.101

Subnet Mask 255.255.255.0

Gateway 192.168.0.11

Primary DNS Server 192.168.0.11

Secondary DNS Server 0.0.0.0

Connection Duration 0Day(s)01:30:27

Release Refresh

Helpful Hints

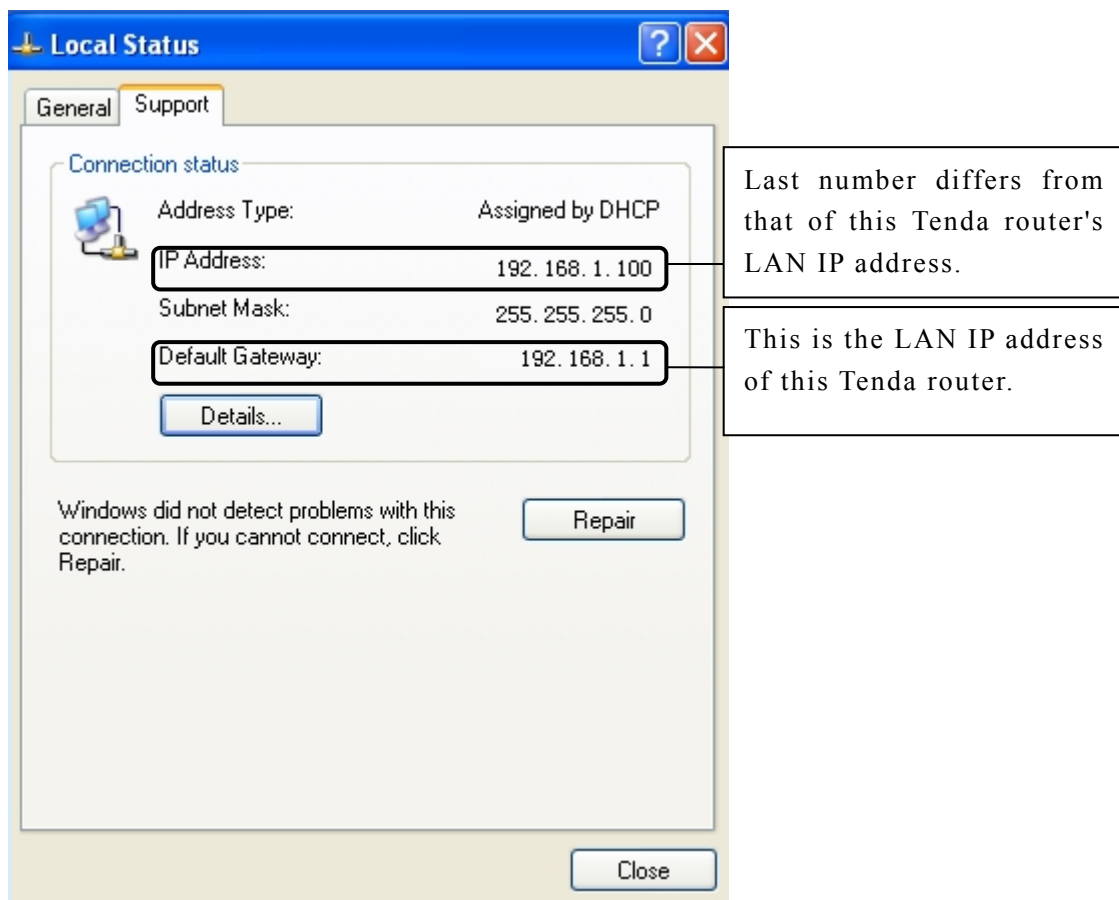
This section displays WAN port status.

**Note**

When the WISP (client router) mode is configured successfully, wireless clients can connect to this Tenda wireless router's SSID for Internet access.

Verify Bridge Connectivity:

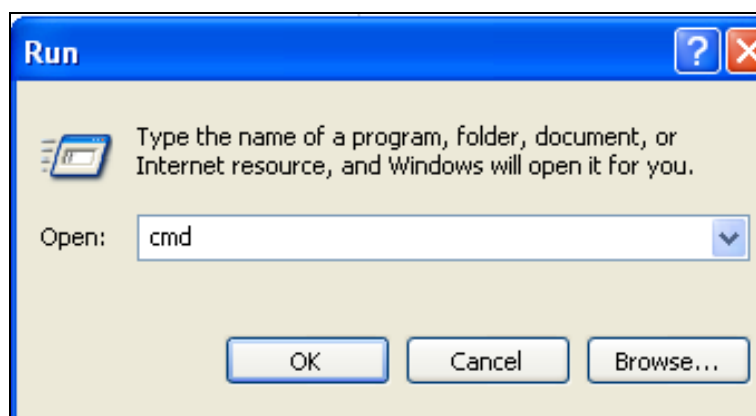
- ① Connect your PC to this Tenda wireless router via a wired or wireless connection and set it to "Obtain an IP address automatically". If you are not clear, see [Appendix 1 Configure PC TCP/IP Settings](#).
- ② Wait until your PC successfully obtains an IP address.



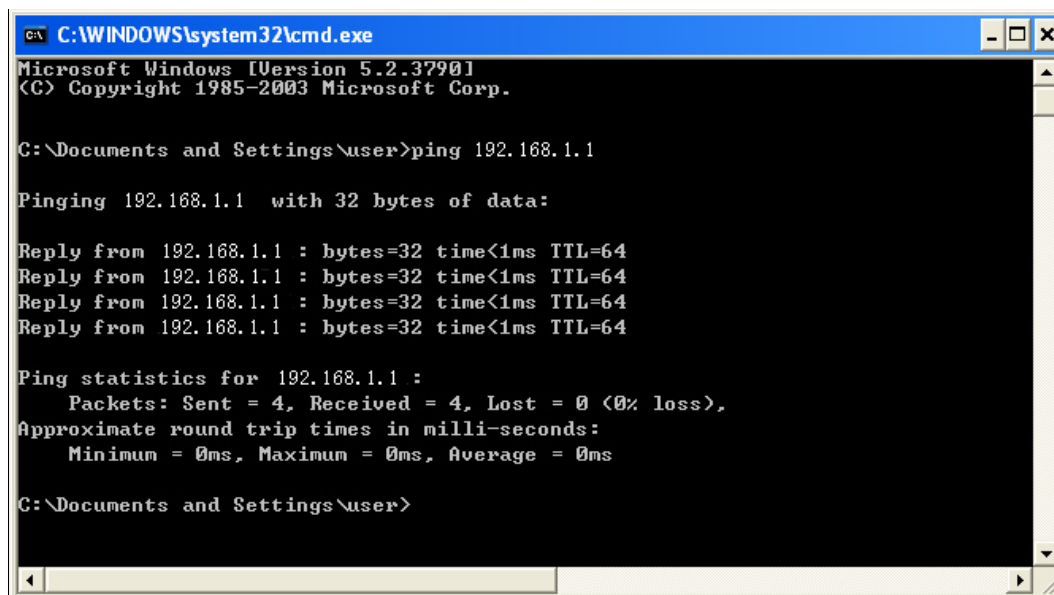
- ③ Click **Start ->Run**



- ④ Enter **cmd** and click **OK**.



- ⑤ Enter "ping Tenda router's gateway IP address". Here in this example, enter "ping 192.168.1.1" and press **Enter**. If you see a similar screen (highlighted area), the bridge is established successfully.



```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows [Version 5.2.3790]
(C) Copyright 1985-2003 Microsoft Corp.

C:\Documents and Settings\user>ping 192.168.1.1

Pinging 192.168.1.1 with 32 bytes of data:

Reply from 192.168.1.1 : bytes=32 time<1ms TTL=64
Reply from 192.168.1.1 : bytes=32 time<1ms TTL=64
Reply from 192.168.1.1 : bytes=32 time<1ms TTL=64
Reply from 192.168.1.1 : bytes=32 time<1ms TTL=64

Ping statistics for 192.168.1.1 :
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

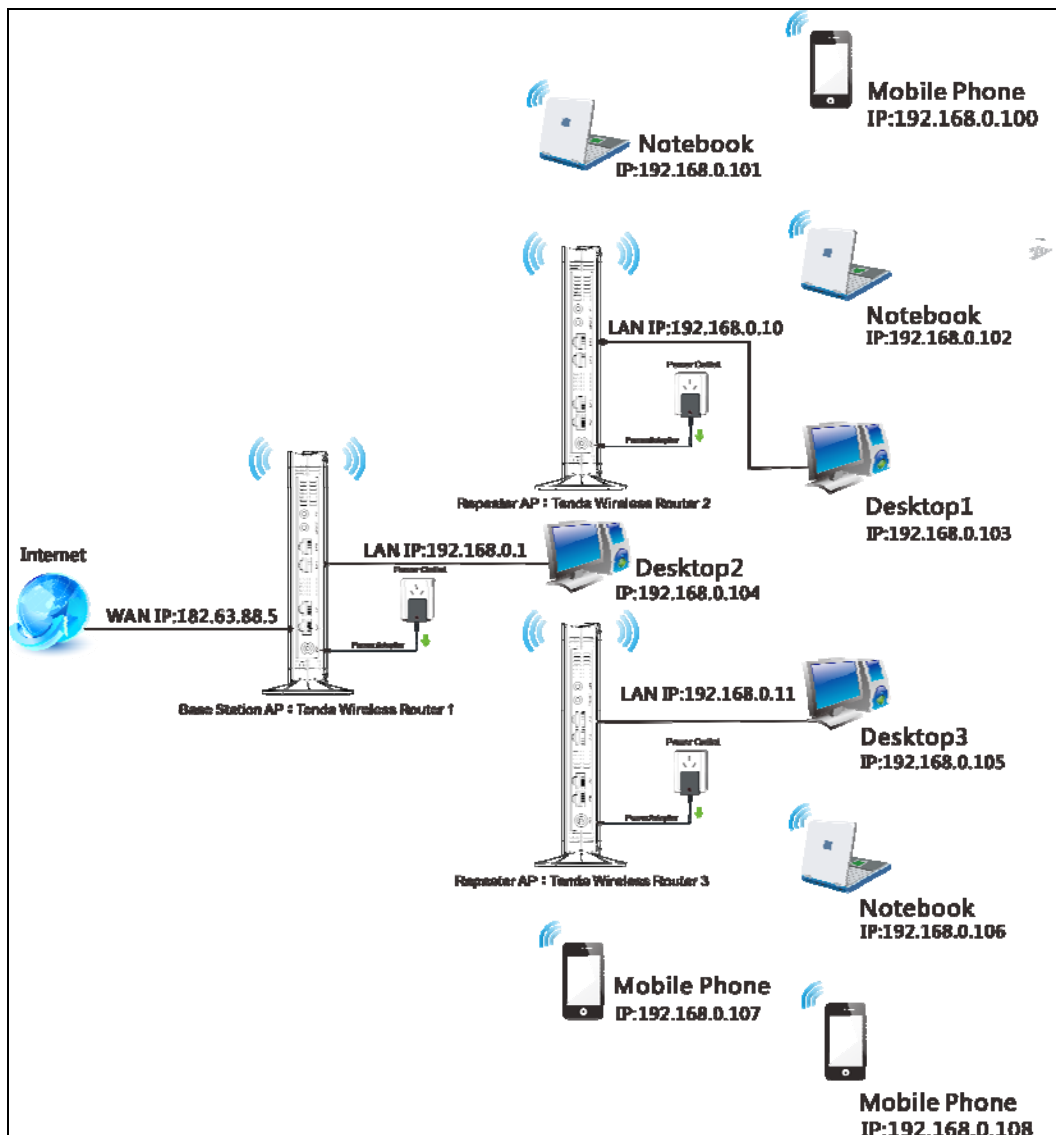
C:\Documents and Settings\user>
```

WDS Mode

WDS (Wireless Distribution System) includes Wireless Bridge and Wireless AP. The differences are described as below:

Operating in Wireless AP mode, clients can access the Internet by connecting to the router via an Ethernet cable or wirelessly. Operating in Wireless Bridge mode, clients can access the Internet by connecting to the router via an Ethernet cable or wirelessly joining the router's secondary SSID (wireless network) or guest network.

WDS: Wireless distribution system (WDS) is a system enabling the wireless interconnection of access points in an IEEE 802.11 network. It allows a wireless network to be expanded using multiple access points without the traditional requirement for a wired backbone to link them. The Tenda wireless router can function as a base station AP to create a wireless network or as a repeater AP to repeat and extend the base station AP's wireless network to a farther and wider range. The following figure shows an application scenario.



In this mode, you must set up both the base station A and the repeater AP.



Tip-----

Before you start, **verify the following**:

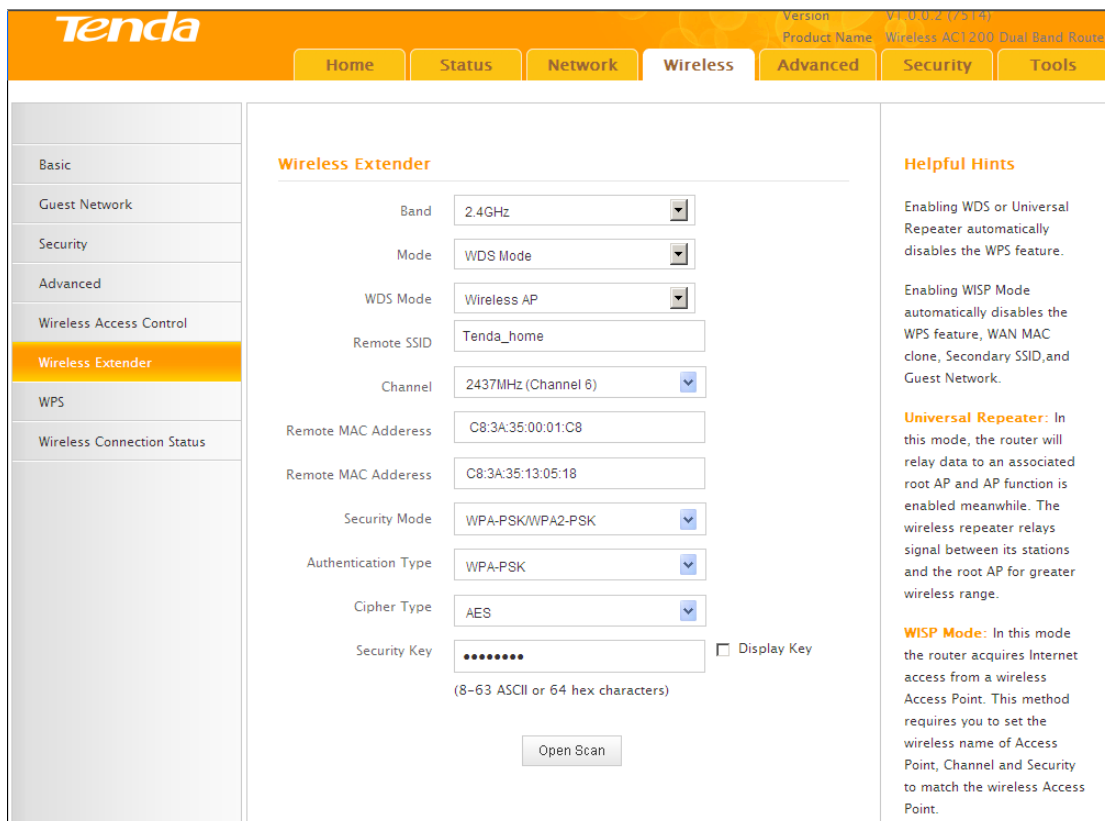
1. Tenda wireless router 1 that functions as a base station AP has successfully connected to Internet.
2. No Ethernet cables are connected to the WAN ports of the repeater APs: Tenda wireless routers 2 and 3.

WDS Application Example (as shown in the application scenario above):

Step 1: Configure Base Station AP (Tenda Wireless Router 1)

- ① **Mode:** Select **WDS Mode**.
- ② **WDS Mode:** Select **Wireless AP**.
- ③ **SSID:** Customize a SSID, for example, Tenda_home.

- ④ **Channel:** Specify a channel for the base station AP to operate on, for example, 2437MHz (Channel 6).
- ⑤ **Remote MAC Address:** Manually enter the MAC addresses of the two remote repeater APs (You can click **Open Scan** to view the MAC addresses).
- ⑥ **Security Mode:** Specify security mode/authentication type, cipher type and security key for the base station AP.
- ⑦ Click **Save** to save your settings.



Tenda Version: V4.0.0.2 (7514)
Product Name: Wireless ACT200 Dual Band Router

Home Status Network **Wireless** Advanced Security Tools

Basic
Guest Network
Security
Advanced
Wireless Access Control
Wireless Extender
WPS
Wireless Connection Status

Wireless Extender

Band: 2.4GHz
Mode: WDS Mode
WDS Mode: Wireless AP
Remote SSID: Tenda_home
Channel: 2437MHz (Channel 6)
Remote MAC Address: C8:3A:35:00:01:C8
Remote MAC Address: C8:3A:35:13:05:18
Security Mode: WPA-PSK/WPA2-PSK
Authentication Type: WPA-PSK
Cipher Type: AES
Security Key: ☐ Display Key
(8-63 ASCII or 64 hex characters)
Open Scan

Helpful Hints

Enabling WDS or Universal Repeater automatically disables the WPS feature.

Enabling WISP Mode automatically disables the WPS feature, WAN MAC clone, Secondary SSID, and Guest Network.

Universal Repeater: In this mode, the router will relay data to an associated root AP and AP function is enabled meanwhile. The wireless repeater relays signal between its stations and the root AP for greater wireless range.

WISP Mode: In this mode the router acquires Internet access from a wireless Access Point. This method requires you to set the wireless name of Access Point, Channel and Security to match the wireless Access Point.

- ⑧ Click **Network -> DHCP Server** on the base AP's configuration interface to enable the DHCP server.

Tenda		Version V1.0.0.2 (7514)	Product Name Wireless AC1200 Dual Band Router					
		Home	Status	Network	Wireless	Advanced	Security	Tools
LAN	DHCP Server							
WAN	The Dynamic Host Configuration Protocol (DHCP) is an automatic configuration protocol used on IP networks. If you enable the built-in DHCP server on this router, it will automatically configure TCP and IP protocol settings for all PCs in LAN, including IP address, subnet mask, gateway and DNS etc..							
Port Mode	DHCP Server ☐ Disable ☒ Enable							
MAC Clone	Start IP Address 192.168.0.100							
DHCP Server	End IP Address 192.168.0.200							
DHCP Clients	Primary DNS Server 192.168.0.1							
Static Assignment	Secondary DNS Server							
DHCP - Guest Network	Lease Time 1 day							
Client List - Guest Network	Save Cancel							
		Helpful Hints The Dynamic Host Configuration Protocol (DHCP) is an automatic configuration protocol used on IP networks. If you enable the built-in DHCP server on this router, it will automatically configure TCP/IP protocol settings for all PCs in LAN, including IP address, subnet mask, gateway and DNS etc.. Start/End IP Address: Specify a IP address range for DHCP assignment by entering a starting/ending IP address. Note: To activate this feature, you must reboot the router and set all LAN PC's TCP/IP settings to 'Obtain an IP address automatically'.						

Step 2: Configure Repeater AP (Tenda Wireless Router 2)

- Click **Network** -> **LAN** to specify a LAN IP address that is in the same subnet as yet different from the base station AP.

Tenda		Version V1.0.0.2 (7514)	Product Name Wireless AC1200 Dual Band Router					
		Home	Status	Network	Wireless	Advanced	Security	Tools
LAN	LAN Settings							
WAN	Use this section to configure your router's LAN IP settings.							
Port Mode	MAC Address 00-90-4C-01-60-3D							
MAC Clone	IP Address 192.168.0.10							
DHCP Server	Subnet Mask 255.255.255.0							
DHCP Clients	Save Cancel							
Static Assignment								
DHCP - Guest Network								
Client List - Guest Network								
		Helpful Hints IP Address: Router's LAN IP address. All LAN PC's default gateway must be set to this address. Subnet Mask: Router's LAN subnet mask, commonly, 255.255.255.0. All LAN PC's subnet mask must be set to this value. Note: 1. If you change the LAN IP address, you must use the new one to log on to the web utility. 2. If the new LAN IP is not on the same net segment with the old one, DHCP server will automatically update its IP settings accordingly while old virtual server and DMZ settings will become inoperative; to re-activate such, you must renew the IP settings thereof.						

Click **OK** in the appearing screen.

- Click **Wireless** -> **Wireless Extender**, select **WDS Mode** from the **Mode**



drop-down list, select **Wireless AP** from the **WDS Mode** drop-down list and then click **Open Scan**.

Tenda Version: V1.0.0.2 (7514)
Product Name: Wireless AC1200 Dual Band Router

Home Status Network **Wireless** Advanced Security Tools

Basic
Guest Network
Security
Advanced
Wireless Access Control
Wireless Extender
WPS
Wireless Connection Status

Wireless Extender

Band: 2.4GHz
Mode: WDS Mode
WDS Mode: **Wireless AP**
Remote SSID:
Channel: 2437MHz (Channel 6)
Remote MAC Address:
Remote MAC Address:
Security Mode: None

Open Scan

Save Cancel

Helpful Hints

Enabling WDS or Universal Repeater automatically disables the WPS feature.

Enabling WISP Mode automatically disables the WPS feature, WAN MAC clone, Secondary SSID, and Guest Network.

Universal Repeater: In this mode, the router will relay data to an associated root AP and AP function is enabled meanwhile. The wireless repeater relays signal between its stations and the root AP for greater wireless range.

WISP Mode: In this mode the router acquires Internet access from a wireless Access Point. This method requires you to set the wireless name of Access Point, Channel and Security to match the wireless Access

③ Search for and select the base station AP's SSID and then click **Close Scan**.

Tenda Version: V1.0.0.2 (7514)
Product Name: Wireless AC1200 Dual Band Router

Home Status Network **Wireless** Advanced Security Tools

Basic
Guest Network
Security
Advanced
Wireless Access Control
Wireless Extender
WPS
Wireless Connection Status

Wireless Extender

Band: 2.4GHz
Mode: WDS Mode
WDS Mode: **Wireless AP**
Remote SSID:
Channel: 2437MHz (Channel 6)
Remote MAC Address:
Remote MAC Address:
Security Mode: None

Close Scan

Sel...	SSID	MAC Address	Ch...	Channel Bandwidth	Security	Signal Intensity
☐	Tenda_home	C8:3A:35:0F:F0:2D	6	40 MHz	WPA	-82 dBm

Helpful Hints

Enabling WDS or Universal Repeater automatically disables the WPS feature.

Enabling WISP Mode automatically disables the WPS feature, WAN MAC clone, Secondary SSID, and Guest Network.

Universal Repeater: In this mode, the router will relay data to an associated root AP and AP function is enabled meanwhile. The wireless repeater relays signal between its stations and the root AP for greater wireless range.

WISP Mode: In this mode the router acquires Internet access from a wireless

④ The SSID, channel, MAC address, security settings except security key of the base station AP will be automatically added to the corresponding fields.

You only need to enter the security key of the base station AP and click **Save**.

Tenda
Version: V3.0.0.2 (7514)
Product Name: Wireless AC1200 Dual Band Router

Home
Status
Network
Wireless
Advanced
Security
Tools

- Basic
- Guest Network
- Security
- Advanced
- Wireless Access Control
- Wireless Extender
- WPS
- Wireless Connection Status

Wireless Extender

Band

2.4GHz

Mode

WDS Mode

WDS Mode

Wireless AP

Remote SSID

Tenda_home

Channel

2437MHz (Channel 6)

Remote MAC Address

C8:3A:35:0F:F0:2D

Remote MAC Address

Security Mode

WPA-PSK/WPA2-PSK

Authentication Type

WPA-PSK

Cipher Type

AES

Security Key

••••••••

☐ Display Key

(8-63 ASCII or 64 hex characters)

Re-scan

Helpful Hints

Enabling WDS or Universal Repeater automatically disables the WPS feature.

Enabling WISP Mode automatically disables the WPS feature, WAN MAC clone, Secondary SSID, and Guest Network.

Universal Repeater: In this mode, the router will relay data to an associated root AP and AP function is enabled meanwhile. The wireless repeater relays signal between its stations and the root AP for greater wireless range.

WISP Mode: In this mode the router acquires Internet access from a wireless Access Point. This method requires you to set the wireless name of Access Point, Channel and Security to match the wireless Access Point.

- ⑤ Click **Network -> DHCP Server**, disable the DHCP server there and then click **Save**.

Tenda		Version	V1.0.0.2 (7514)
		Product Name	Wireless AC1200 Dual Band Router
		Home	Status
		Network	Wireless
		Advanced	Security
		Tools	
LAN	DHCP Server		
WAN	The Dynamic Host Configuration Protocol (DHCP) is an automatic configuration protocol used on IP networks. If you enable the built-in DHCP server on this router, it will automatically configure TCP and IP protocol settings for all PCs in LAN, including IP address, subnet mask, gateway and DNS etc..		
Port Mode	DHCP Server ☒ Disable ☐ Enable		
MAC Clone	Start IP Address 192.168.0.100		
DHCP Server	End IP Address 192.168.0.200		
DHCP Clients	Primary DNS Server 192.168.0.1		
Static Assignment	Secondary DNS Server		
DHCP - Guest Network	Lease Time 1 day		
Client List - Guest Network	Save Cancel		
	Helpful Hints The Dynamic Host Configuration Protocol (DHCP) is an automatic configuration protocol used on IP networks. If you enable the built-in DHCP server on this router, it will automatically configure TCP/IP protocol settings for all PCs in LAN, including IP address, subnet mask, gateway and DNS etc.. Start/End IP Address: Specify a IP address range for DHCP assignment by entering a starting/ending IP address. Note: To activate this feature, you must reboot the router and set all LAN PC's TCP/IP settings to 'Obtain an IP address automatically'.		

Step 3: Configure Repeater AP (Tenda Wireless Router 3)

- ① Click **Network -> LAN** to specify a LAN IP address that is in the same subnet as yet different from the base AP and the other remote AP.

Tenda		Version	V1.0.0.2 (7514)
		Product Name	Wireless AC1200 Dual Band Router
		Home	Status
		Network	Wireless
		Advanced	Security
		Tools	
LAN	LAN Settings		
WAN	Use this section to configure your router's LAN IP settings.		
Port Mode	MAC Address 00:90:4C:01:60:3D		
MAC Clone	IP Address 192.168.0.11		
DHCP Server	Subnet Mask 255.255.255.0		
DHCP Clients	Save Cancel		
Static Assignment	Helpful Hints IP Address: Router's LAN IP address. All LAN PC's default gateway must be set to this address. Subnet Mask: Router's LAN subnet mask, commonly, 255.255.255.0. All LAN PC's subnet mask must be set to this value. Note: 1. If you change the LAN IP address, you must use the new one to log on to the web utility. 2. If the new LAN IP is not on the same net segment with the old one, DHCP server will automatically update its IP settings accordingly while old virtual server and DMZ settings will become inoperative; to re-activate such, you must renew the IP settings thereof.		
DHCP - Guest Network			
Client List - Guest Network			