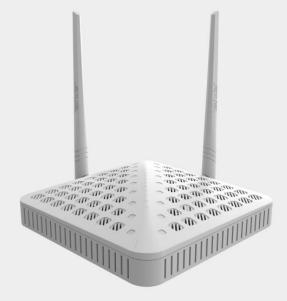


User Guide

www.tendacn.com



Wireless AC1200 Dual Band Router

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Π



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:

 Δ 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.

 \bigvee 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

- support02@tenda.com.cn
- Skype: tendasz
- YouTube: Tendasz1999
- Hotline:

1-800-570-5892 (USA) (061) 1300787922 (Australia)

(044)197-780-6119 (UK) (0852)36120883 (HongKong)

(064) 800787922 (New Zealand)

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

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I Product Overview

1 Package Contents

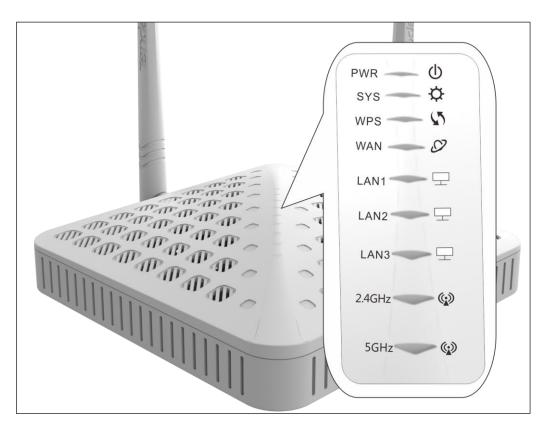
Unpack the package. Your box should contain the following items:



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

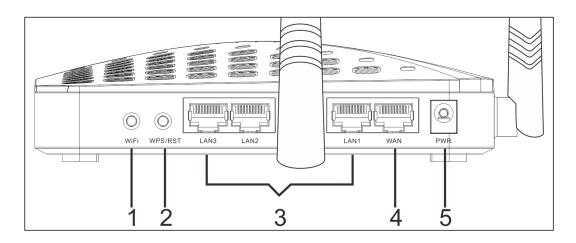
LEDs on Front Panel



Tenda

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

Buttons & Interfaces on Back Panel



 $1 \rightarrow WiFi$: Wireless radio ON/OFF button. Pressing the WiFi On/Off button turns

the wireless radios on and off.

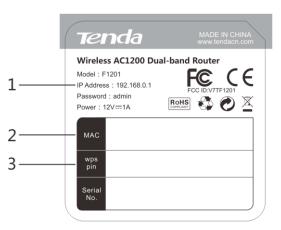
 $2 \rightarrow WPS/RST$: Pressing it for over 7 seconds restores the device to factory default settings. For device's factory default settings, see <u>Appendix 3 Factory Default Settings</u>. Pressing it for about 1 second enables WPS-PBC and the WPS LED blinks. You can use this button to quickly add a wireless device or computer to your wireless network.

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

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

 $5 \rightarrow PWR$: The power port for connecting the router to power outlet.

Label



 $1 \rightarrow Default$ 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.

 $2 \rightarrow MAC$ address.

 $3 \rightarrow WPS$ 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	Find it in your 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 a installed IE8 or higher browser		
Ethernet Cable	You will need it to connect your PC to the router		
Ethernet Cable	This is provided by your ISP		
from the incoming			
Internet side			
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: IP Address Subnet Mask Gateway DNS Server Alternate DNS Server (Optional) 		

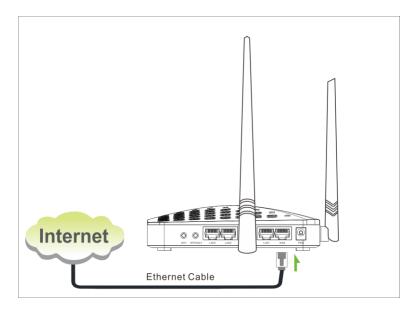
2 Hardware Install

▲_{Note} Before you start, make sure you can access Internet by connecting the cable from

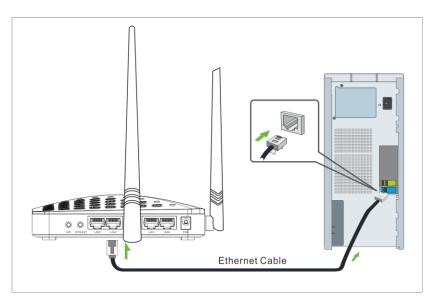
the incoming Internet side to your PC.



1) Connect the cable from the incoming Internet side to the WAN port on the router.

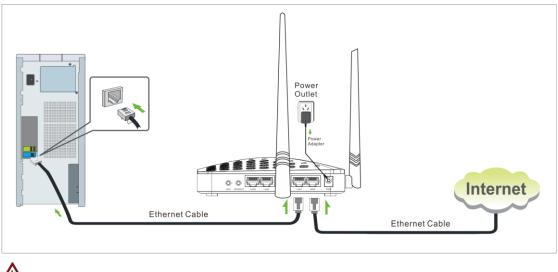


② Connect one of the LAN ports on the router to the RJ45 (NIC) port on your PC using an Ethernet cable.



(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

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 *Appendix1 Configure PC TCP/IP Settings*.

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".

<i>(</i> http://	192.168.0.1/main.asp - Windows	Internet Explorer
	[2] 192. 168. 0. 1	

3 The login window appears.



Ter	nda (950
	Wireless AC1200 Dual Band Router
	1.Enter Password
	Password
	Login Cancel
	2.Click Login

(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).

Tenda		States States and
	et Connection Setup momentConnection Type - P. 1994 - # 1	nami P
		ion types, elick " <u>Advance</u> d"
	The WAN status is checked, please v	being walt
	(See) Con	

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

Tenda	Name Andre State - Miller State - Mi
- Company	et Connection Type: 4" annue 4" Deceme # Por other connection types, click " <u>Adverced</u> "
novelet.	Securit at Jeans Your Internet connection type is DHCP
	Save Canon



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

Tenda	Version V1 0.0 2 (75) 4) Product Name, Wireless AC1200 Dual Band Router
Internet Connection Setup Internet Connection Type	C PPPoE © Dynamic IP For other connection types, click " <u>Advanced</u> "
Wireless Security Setup 2.4G Security	•••••••• (Default: 12345678)
	Save Cancel

1. If you are not using the PPPoE or Dynamic IP (DHCP) Internet connection type, see <u>Static IP</u>.

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 <u>Security</u>.

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.

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

Dynamic IP (DHCP) & Wireless Security Setup



Tenda	Version V1(0:072 (7514) Product Name Wireless AC1/200 Dual Band Router
Internet Connection Setup Internet Connection Type	O PPPoE O Dynamic IP For other connection types, click " <u>Advanced</u> "
Wireless Security Setup 2.4G Security	••••••• (Default: 12345678)
	Save Cancel

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.

PPPoE & Wireless Security Setup

Tenda	Version V1-010/2 (751-4) Product Name Wirelese AC1/200 Dual Banel Router
Internet Connection Setup Internet Connection Type ISP Username ISP Password	PPPoE O Dynamic IP Please enter ISP Username! Please enter ISP Password!
	For other connection types, click "Advanced"
Wireless Security Setup	
2.4G Security	•••••
	(Default: 12345678)
	Save Cancel

- 1 Select PPPoE.
- 2 Enter the ISP login name and password.
- 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.

Tenda							V1.0.0.2 (7514) Wireless ACI 200 Dual Band Route		
	Home	Status	Network	Wireless	Advanced	Security	Tools		
System Status	WAN Status					Helpful Hin	ts		
WAN Status	WAN Medium Type	Wired WAN				This section dis port status.	plays WAN		
LAN Status	Connection Type	Dynamic IP				port status.			
Wireless Status	Connection Status	Connected							
Connection Status	MAC Address	00:90:4C:0	1:61:3E						
	IP Address	192.168.30	.176						
	Subnet Mask	255.255.25	5.0						
	Gateway	192.168.30	.1						
	Primary DNS Server	192.168.30	.1						
	Secondary DNS Server	0.0.0.0							
	Connection Duration	0Day(s)00:0	4:50						
		Relea	se Refrest	1					

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.



Tenda				\mathcal{A}	Version Product Name	V1.0.0.2 (7514) Wireless AC1200		
	Home	Status	Network	Wireless	Advanced	Security	Tools	
System Status	WAN Status					Helpful Hir	its	
WAN Status	WAN Medium Type	Wired WAN	i			This section di	splays WAN	
LAN Status	Connection Type	Dynamic IP	,			port status.		
Wireless Status	Connection Status	Cable impr	roperly connected!					
Connection Status	MAC Address	00:90:4C:	01:61:3E					
	IP Address	0.0.0.0						
	Subnet Mask	0.0.0.0						
	Gateway	0.0.0.0						
	Primary DNS Server	0.0.0.0						
	Secondary DNS Server	0.0.0.0						
	Connection Duration	0Day(s)00	:00:00					

If the connection status displays "Connecting..." and WAN IP address displays "0.0.0.0", wait

Tenda					Version Product Name	V1.0.0.2 (7514) e Wireless AC1200 Dual Band Router		
	Home	Status	Network	Wireless	Advanced	Security	Tools	
System Status	WAN Status					Helpful Hin	ts	
	WAN Medium Type	Wired WAN				This section d	isplays WAN	
LAN Status	Connection Type	Dynamic IP				port status.		
Wireless Status	Connection Status	Connecting.						
Connection Status	MAC Address	00:90:4C:01	:61:3E					
	IP Address	0.0.0.0						
	Subnet Mask	0.0.0						
	Gateway	0.0.00						
	Primary DNS Server	0.0.00						
	Secondary DNS Server	0.0.0.0						
	Connection Duration	0Day(s)00:00	0:00					
		Relea	ase Refresh					

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

(1) Make sure physical connections are correctly established.

2 Make sure you can access 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 <u>2.4 MAC Clone</u>.

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) and enter a security key to connect to it wirelessly.

V_{Tip}
1. The router's SSID is Tenda_XXXXX by default. You can find it on the label on the bottom of the router.
2. Also, you can find the MAC address on label on the bottom of the router.
3. To ioin your wineless network, the PC you use must have an installed

3. To join your wireless network, the PC you use must have an installed wireless network adapter. If not, install one.

Join Your Wireless Network - Windows 7

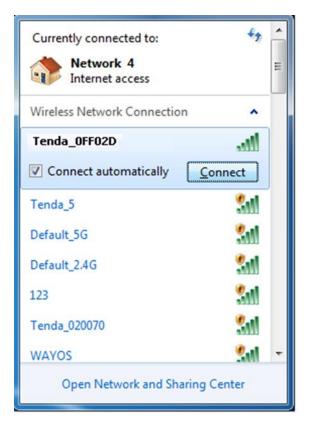
① Click the icon does not the notification area on the bottom right corner.

Ϋ́_{Tip} -----

If you cannot find the discon, 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 <u>Join Your Wireless Network - Windows 7</u>.

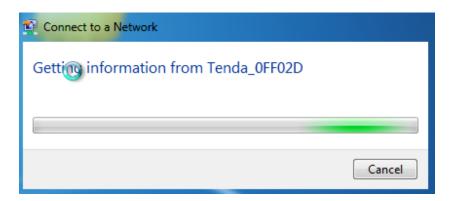


2 Select the wireless network you wish to connect and click Connect.





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



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

P Connect to a Network								
Type the netwo	rk security key							
<u>S</u> ecurity key:	•••••							
	✓ <u>H</u> ide characters							
		OK Cancel						

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



Join Your Wireless Network - 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.

	ss Network Connection 12
See 🗶 Not co	Disa <u>b</u> le
🤁 மு 802.1	<u>Y</u> iew Available Wireless Networks
	Status
	Re <u>p</u> air
	Bridge Connections
	Create <u>S</u> hortcut
	Delete
	Rena <u>m</u> e
	Properties

3 Double click the wireless network you wish to connect.

(191) Wireless Network Connect	ion		×
Network Tasks	Choose	a wireless network	
🚭 Refresh network list	Click an iten information	n in the list below to connect to a <u>w</u> ireless network in range or to get	more
Set up a wireless network for a home or small office	((ဝ))	Tenda_5G_4BC730	^
	U	Unsecured wireless network	0000
Related Tasks	((ດູ))	Tenda_5G_000058	
 Learn about wireless 	U	Unsecured wireless network	•000
networking	((0))	Test_yanf_w85ap-5	
Change the order of preferred networks		😚 Security-enabled wireless network (WPA)	•000
🍄 Change advanced	((Q))	F2	
settings	U	😚 Security-enabled wireless network (WPA2)	
	((O))	Tenda_0FF02D	
	U	🔓 Security-enabled wireless network (WPA)	- 100
		To connect to this network, click Connect. You might need to enter additional information.	
			~
			Connect

(4) Enter the security key and click **Connect**.

Wireless Network Connection								
The network 'Tenda_0FF02D' requires a network key (also called a WEP key or WPA key). A network key helps prevent unknown intruders from connecting to this network.								
Type the key, and then click (Ionnect.							
Network <u>k</u> ey:	•••••							
Confirm network key:	•••••							
	<u>C</u> onnect Cancel							

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

(0	⁰ Wireless Network Connect	ion			×
	Network Tasks	Choose	e a wireless network		
	🛃 Refresh network list	Click an iter information	n in the list below to connect to a <u>w</u> ireless network in range	or to get more	
	Set up a wireless network for a home or small office	((ດູ))	Tenda_OFF02D	Connected 👷	^
	for a nome or small office	U	😚 Security-enabled wireless network (WPA)	atti .	
	Related Tasks	((ດູ))	tjw_jjj		
	(j) Learn about wireless	U	Unsecured wireless network		
	networking	((ດູ))	Tenda_00006E		
	Change the order of preferred networks	U	Unsecured wireless network	.a000	
	Sy Change advanced	((ດູ))	PTCL-BB-IPT¥a		
	settings	U	Unsecured wireless network	•000	
		((ດູ))	c2		
		U	😚 Security-enabled wireless network (WPA2)	.a000	
		((ဝူ))	Tenda_office		
		U	😚 Security-enabled wireless network (WPA2)	0000	~

III Features & Configurations

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

Tenda	Version V4.0.0.2 (75.14) Product Name, Wireless ACI 200 Dual Band Router							
	Home	Status	Network	Wireless	Advanced	Security	Tools	
	System Status					Helpful Hin	ts	
WAN Status	CPU Utilization	7%				This section dis	· · ·	
LAN Status	Memory Utilization	48%				router's current	t system info.	
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:



тір -----

1. **Connection Status:** Displays the router's current WAN connection status: Disconnected, Connecting, or Connected. For explanation of the 3 connection statuses, see <u>4 Verify Internet Connectivity</u>.

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.



Tenda	Version V4.0.0.2 (7514) Product Name Wireless ACI 200 Dual Band Rou							
	Home	tatus	Network	Wireless	Advanced	Security	Tools	
	System Status					Helpful Hir	its	
WAN Status	CPU Utilization	This section displays						
LAN Status	Memory Utilization	48%				router's current system info.		
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						

1.2 WAN Status

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

Tenda					Version Product Name	V1.0.0.2 (7514) Wireless AC1200) Dual Band Router
	Home	Status	Network	Wireless	Advanced	Security	Tools
System Status	WAN Status					Helpful Hir	nts
WAN Status	WAN Medium Type	Wired WAN	I			This section d	isplays WAN
LAN Status	Connection Type	Dynamic IF	,			port status.	
Wireless Status	Connection Status	Connected					
Connection Status	MAC Address	00:90:4C:	01:61:3E				
	IP Address	192.168.3	0.176				
	Subnet Mask	255.255.2	\$55.0				
	Gateway	192.168.3	0.1				
	Primary DNS Server	192.168.3	0.1				
	Secondary DNS Server	0.0.0.0					
	Connection Duration	0Day(s)00	:33:47				
		Rele	ease Refres	h			

1.3 LAN Status

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

Tenda		VI 0.0.2 (7514) Wireless ACI 200 Dual Band Router				
	Home Status	Network	Wireless	Advanced	Security	Tools
System Status	LAN Status	Helpful Hi	Helpful Hints			
WAN Status	MAC Address 00:90:4	This section displays LAN				
LAN Status	IP Address 192.16	port status.				
Wireless Status	Subnet Mask 255.25	5.255.0				
Connection Status						

1.4 Wireless Status

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

Tenda		Version Product Name	V1.0.0.2 (7514) e Wireless AC1200 Dual Band Router				
	Home	Status	Network	Wireless	Advanced	Security	Tools
System Status	Wireless Status					Helpful Hir	its
WAN Status	2.4GHz Wireless					This section di	
LAN Status	Wireless Radio	Enabled				wireless status	
Wireless Status	Wireless MAC Address	00:90:4C:	01:70:3D				
Connection Status	SSID	Tenda_01	703D				
	802.11 Mode	llb/g/nm	nixed				
	Country	China					
	Channel	Channel 11	I				
	Security Mode	WPA-PSK/V	WPA2-PSK				
	5GHz Wireless						
		Frederic					
	Wireless Radio						
		00:90:4C:					
	SSID	Tenda_5G					
	802.11 Mode	11a/n mix	ed				
	Country	China					
	Channel	Channel 9	9				
	Security Mode	None					

1.5 Connection Status

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

Tenda		Version Product Nam								
	Home	Status	Network	Wireless	Advanced	Security	Tools			
System Status		Connection Status								
WAN Status	This section displays o					This section displays the info of currently connected clients (if any) including IP and MAC addresses, etc.				
Wireless Status	IP Address 192.168.0.100	MAC Addr C8:3A:35:		/ledium Type(Wire /ired	d/Wireless)					

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. Be sure to make a note of any changes you apply to this page.

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.



Tenda			Version Product Name	V1.0.0.2 (7514) Wireless AC1200 Dual Band Router			
	Home	Status	Network	Wireless	Advanced	Security	Tools
	LAN Settings					Helpful Hii	nts
WAN	Use this section to co	nfigure your rout	er's LAN IP settings			IP Address: IP address: Al	
Port Mode	MAC Addr	ress 00:90:4C	:01:60:3D			default gatewa	ay must be set
MAC Clone	IP Addr	ress 192.168.0	0.1			to this addres	s.
DHCP Server	Subnet M	ask 255.255.2	255.0			Subnet Mask LAN subnet m	
DHCP Clients						commonly,25 All LAN PC's si	
Static Assignment		22	ave Cance	1		must be set to	
DHCP - Guest Network						Note: 1.lf you	-
Client List – Guest Network						LAN IP addres use the new o the web utility	ne to log on to
						the same net : the old one, D will automatica IP settings acc old virtual sen settings will be inoperative; to	HCP server ally update its cordingly while ver and DMZ ecome o re-activate it renew the IP

Configuration Procedures :

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

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

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

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



PPPoE

Tenda	Version V4.0.0.2.(7514) Product Name Wireless AC1/200 Dual							
	Home	Status	Network	Wire	eless	Advanced	Security	Tools
LAN WAN	WAN Settings						Helpful Hir Dynamic IP:	
Port Mode MAC Clone DHCP Server DHCP Clients	Connection T ISP Userna ISP Passw M	ıme			Dis	splay Key	obtain IP settir automatically f connection if y not give you au account info.	ngs or Internet our ISP does ny IP or
Static Assignment DHCP - Guest Network Client List - Guest Network	Ν	ITU 1450	(Default Ve Cance	,			ISP provides y Enter IP addre mask, Primary secondary DN provided by y corresponding	ss, subnet DNS and S info, etc pur ISP in
							PPPoE: Select is using a PPPo and enter PPP and password by your ISP.	DE connection DE user name
							MTU: Maximu Transmission default value v according to d Internet conne DO NOT chang necessary.	Unit. The varies ifferent ction types.

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 <u>WAN MTU</u>

<u>Setup</u>.

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



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

Static IP

Tenda		Version Product Name						
	Home	Status Ne	etwork V	Vireless	Advanced	Security	Tools	
LAN	WAN Settings					Helpful Hir	nts	
WAN	Connection Type	Static IP		•		Dynamic IP: obtain IP settir		
Port Mode	IP Address	192.168.30.176				automatically f	-	
MAC Clone	Subnet Mask	255.255.255.0				connection if y not give you a		
DHCP Server	C .	192.168.30.1				account info.		
DHCP Clients	Gateway	192.106.30.1				Static IP: Sele		
Static Assignment	Primary DNS Server	192.168.30.1				Enter IP addre	ss, subnet	
DHCP - Guest Network	Secondary DNS Server	0.0.0.0				mask, Primary secondary DN		
Client List – Guest Network	MTU	1450	(Default: 145	0)		provided by yo corresponding		
		Save	Cancel			PPPoE: Select is using a PPPo and enter PPPi and password by your ISP.	DE connection DE user name	
						MTU: Maximu Transmission I default value v according to d Internet conne DO NOT chang necessary.	Unit. The varies ifferent ction types.	

Configuration Procedures:

1 Internet connection Type: Select Static IP.

② IP Address/Subnet Mask/WAN subnet mask/Gateway/Primary DNS Server/Secondary DNS Server: Enter the ISP information you gathered in 1 Getting Prepared.

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

Dynamic IP (DHCP)



Tenda					Version Product Name	VI 0.0.2 (7514) Wireless AC1200 Dual Band Route		
	Home	Status	Network	Wireless	Advanced	Security	Tools	
LAN	WAN Settings	;				Helpful Hir		
WAN Port Mode MAC Clone DHCP Server DHCP Clients	Connectio	MTU 1450		• t: 1450)		Dynamic IP: obtain IP settir automatically f connection if y not give you a account info. Static IP: Seld ISP provides y	ngs for Internet our ISP does ny IP or ect it if your	
Static Assignment DHCP – Guest Network Client List – Guest Network						Enter IP addre mask, Primary secondary DN provided by yo corresponding	DNS and S info, etc our ISP in	
						PPPoE: Select is using a PPPo and enter PPP and password by your ISP.	DE connection DE user name	
						MTU: Maximu Transmission default value v according to d Internet conne DO NOT chang necessary.	Jnit. The varies ifferent ction types.	

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 a	applications are listed in the table below.
MTU	Application

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.

Tenda

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 Product Name	V1.0.0.2 (7514) Wireless AC1200	Dual Band Router
	Home	Status	Network	Wireless	Advanced	Security	Tools
LAN	Port Mode					Helpful Hir	its
WAN	Mode Sel	ect Auto		•		Default is auto	
Port Mode						choose differe	nt mode.
MAC Clone		Sa	ve Cance	I		Note: The rou port must be s	
DHCP Server						the remote link	c partner's
DHCP Clients						working mode (speed/duple>	
						may be unable	
Static Assignment						recieve data. S let your router	
DHCP - Guest Network						an optimum w	-
Client List – Guest Network						with the remot	
Client List – Guest Network						if you are not o	lear.

*V*_{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.

Tenda		V1.0.0.2 (7514) Wireless AC1200 Dual Band Router					
	Home	Status	Network	Wireless	Advanced	Security	Tools
LAN	MAC Address C	lone				Helpful Hir	nts
WAN Port Mode MAC Clone	MAC Addr	ress 00:90:4C		Clone MAC		WAN MAC Ac device's WAN seen from the by your ISP.	MAC address
DHCP Server DHCP Clients		Sa	Cance	I		Normally you o change its def However, som require a bour	ault value. e ISPs may
Static Assignment DHCP – Guest Network							outer's default Internet
Client List – Guest Network						and shall give MAC. In this ca enter such MA MAC Address save/apply the activate the ne	, ase, simply C in the WAN field, e changes to
						Restore to Fac MAC: Click it to router's currer factory default Clone MAC: 0 populate curre to router's WA	o change nt WAN MAC to Click it to ent PC's MAC

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:

Tenda

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

Tenda		V1.0.0.2 (7514) 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	Home DHCP Server The Dynamic Host Config used on IP networks. If yr automatically configure T address, subnet mask, g DHCP Server Start IP Address End IP Address Primary DNS Server Secondary DNS Server Lease Time	uration Protoc pu enable the CP and IP pro ateway and D O Disable 192.168.0 192.168.0	col (DHCP) is an au built-in DHCP ser tocol settings for a NS etc e • Enable .100 .200	itomatic configurati ver on this router, i	Advanced	Security Helpful Hin The Dynamic I Configuration (OHCP) is an a configuration p	Tools Its Host Protocol utomatic protocol used i. If you enable ICP server on vill configure ol settings for including IP et mask, DNS etc Address: Idress range gnment by
		Sa	Ve Cance	1		router and set	all LAN PC's s to 'Obtain an

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

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.

Tenda					Version Product Name	V1.0.0.2 (7514) Wireless AC1200	Dual Band Route
	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 Host	List IP Addres	s MAC	Address L	ease Time	Helpful Hin The DHCP clie IP addresses i the built-in DH MAC addresse and etc of con Refresh the lis client info.	nt list displays assigned by ICP server, as, host names nected clients.

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 have 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:

- **(**) Enter the IP address: 192.168.0.123.
- 2 Enter the MAC address of 44:37:E6:4F:37:3B.

3 Click Add	•
-------------	---

Tend a			Version Product Name	Version V1.0.0.2 (7514) Product Name Wireless AC1200 Dual Ban				
	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	Home Static Assignm IP Add MAC Add	ent Iress 192.168.0 Iress 44 : 3	0.123	: 37 : 38		Security Helpful Hin If you would li devices on you advays receive addresses, yo manually add assignment er such device. A whenever eac a registered M requests a IP the DHCP serv always be ass same IP addre you specified section)	Tools nts ke some ur network to bu can a static DHCP ntry for each And then h such host at ALC address address from ver, it will ligned with the ess (the one on this	
						IP Address: address you v to a specific c device.	vant to assign	
						MAC Address MAC address computer or c you want DHC assign the sar	of the device to which CP server to	



Tend a						Version Product Name	V1.0.0.2 (7514) Wireless AC1200	
		Home	Status	Network	Wireless	Advanced	Security	Tools
LAN	Sta	tic Assignme					Helpful Hir	
Port Mode		MAC Add				Add	devices on you always receive	
MAC Clone		MAC Add				7100	addresses, yo manually add	u can
OHCP Server	ID	IP Address	MA	C Address	Action		assignment en such device. A	try for each
OHCP Clients	1	192.168.0.12	23 44	:37:E6:4F:37:3B	Edit	Delete	whenever each	n such host at
itatic Assignment DHCP – Guest Network Client List – Guest Network			S	ave Cance	91		a registered M requests a IP a the DHCP serv always be assi same IP addre you specified section)	address from er, it will gned with the ess (the one
							IP Address: address you w to a specific co device.	ant to assign
							MAC Addres MAC address computer or d you want DHC assign the sam	of the evice to which P server to

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

2. For PCs that has already obtained IP addresses, you may need to perform the

Repair action to activate the configured static IP addresses.

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

2.8 DHCP Server - Guest Network

PC to access Internet.

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

the same subnet as the device.

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

Tenda					Version	V1.0.0.2 (7514)				
		Carata and I	Material		Product Name		Dual Band Router			
	Home	Status	Network	Wireless	Advanced	Security	Tools			
LAN	DHCP Server – Gue	st Network				Helpful Hir	its			
WAN	The Dynamic Host Configu			-		The Dynamic H				
Port Mode	used on IP networks. If yo automatically configure TO					Configuration I (DHCP) is an a				
MAC Clone	address, subnet mask, ga	ateway and DN	NS etc			configuration p	orotocol used 5. If you enable			
DHCP Server	DHCP Server	O Disable	C Enable			the built-in DF	ICP server on			
DHCP Clients	Start IP Address	192.168.2.1	100			the device, it v automatically o	configure			
Static Assignment	End IP Address	192.168.2.2	200			TCP/IP protoco all PCs on Gue	-			
DHCP – Guest Network	Primary DNS Server	192.168.2.1	1			including IP ad	ldress, subnet y and DNS etc.			
Client List – Guest Network	Secondary DNS Server					Start IP Add				
						the starting IP				
	Lease Time	1 day		~		the DHCP serv	er's IP			
						assignment.				
		Sav	re Cance	1		End IP Addro ending IP addr DHCP server's assignment.				
						Note: To app server settings Guest Network all such PCs to address auton	s to all PCs on c, you must set "Obtain an IP natically" and			

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.

Tenda				Version Product Name	V1.0.0.2 (7514) Wireless ACI 200 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		t List – Guest Network (fo of Guest Network (IP Addre	clients, click the "Re		ease Time	the Guest Net that are curre	isplays info of work clients ntly connected .To view latest
Client List – Guest Network							

3 Wireless Settings

3.1 Wireless-Basic

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

2. 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 Product Name	V1.0.0.2 (7514) Wireless AC1200						
	Home	Status Networl	Wireless	Advanced	Security	Tools				
	Basic Settings	Basic Settings Use this section to configure wireless basic settings.								
Guest Network	Use this section to configu	re wireless basic settings.			This section allows you to					
Security	Band	2.4GHz		config basic wireless settings. It is advisable that						
Advanced	2.4GHz Wireless	Enable	you only config the SSID and channel settings and leave							
Wireless Access Control	Country	ALL	•		other items unchanged from defaults.					
Wireless Extender	SSID Broadcast	€ Enable () Disable	SSID: Service Set Identifier,							
WPS	SSID	Tenda_01703D			the unique name of a wireless network.You can change it from default to secure your wireless					
Wireless Connection Status	- 802.11 Mode	11b/g/n mixed	•							
	Channel	Auto	•		network.					
	Channel Bandwidth	O 20 ⊙ 20/40			Channel: For wireless perfo	rmance, you				
	Extension Channel	Auto	•		may select the					
		Save Ca	ncel		"Auto Select" tr device select t possible chan wireless netwo on.	o let the he best nel for your				
					Broadcast S enabled, your network is visi					

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 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.

Tenda

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.

Tenda		Version Product Name						
	Home	Status	Network	Wireless	Advanced	Security	Tools	
Basic	Guest Network					Helpful Hi	nts	
Guest Network	Band	2.4GHz		•		Enable Gues		
Security Advanced Wireless Access Control Wireless Extender WPS Wireless Connection Status	Band Guest Network SSID Broadcast AP Isolation Guest Network SSID	2.4GHz □ Enable □ Enable □ Enable Tenda_Guest Save	_01703E Cancel			The Guest Net allows guests Internet and o the guest netwi- disallowing the device web m and services of network. Broadcast SI enabled, your network is visi wireless client coverage whe a wireless netwides disabled, your wireless netwo and thus secu AP Isolation clients connect	twork feature to access ther users on vork while em to access anager, clients on primary SID: When it is wireless ible to any s within n they scan for work; when r guest ork is invisible re. : If enabled, ting to the	
						guest network mutually inacc Guest Netwo Service Set Ide unique name (erssible. Ork SSID: entifier, the	

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 V4.0.0.2 (75) 44 Product Name, Wireless AC1200 Durd Band Rai							
	Home	Status	Network	Wireless	Advanced	Security	Tools		
Basic	Security Settings					Helpful Hi	nts		
Guest Network	For security purpose, we	recommend	you to encrypt your	wireless network	using WPA2-	None: Disable wireless			
Security	PSK AES.					security featu	re.		
Advanced	Band	2.4GHz		•		WEP: Wired e privacy.	quivalent		
Wireless Access Control	SSID	Tenda_0	1703D	•		Authenticati	on Type:		
Wireless Extender	Security Mode					Select either " "Shared".			
WPS	c	None				Key Format:	Salact aithar		
Wireless Connection Status	c	WEP				"ASCII" or "He			
	o	WPA-PSK/	WPA2-PSK			Key Select: key from belo			
	Authentication Type	WPA-PSk	(~					
	Cipher Type	AES		•		Key Content key. Note that format and le	the key		
	Security Key	•••••	•		isplay Key	match what is hereon.	-		
	Key Renewal Interval	3600	II or 64 hex charac	Key Length: Select either 64-bit or 128-bit.Selecting "None" deactivates corresponding WEP Key.					
		Sa	ve Cancel			WPA-PSK/WP/ includes AES a			

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.

Knowledge Center -----

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 config 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.



Tend a				20	Version Product Name	V1.0.0.2 (7514) Wireless AC1200) Dual Band Router	
	Home	Status	Network	Wireless	Advanced	Security	Tools	
Basic	Advanced-Wireless	5				Helpful Hii	nts	
Guest Network	Band		This section a					
Security	AP Isolation		config advance settings. It is a	dvisable to				
Advanced	Beacon Interval	100	ms (Range	: 20 - 999; Defai	lt: 100)	from defaults	ons unchanged if you are not	
Wireless Access Control	Fragment Threshold	2346	(Range: 25	6 - 2346; Defau	t: 2346)	clear about ho them.	ow to config	
Wireless Extender	RTS Threshold	2347	(Range: 1	- 2347; Default: 2	2347)	Beacon Inter		
WPS	DTIM Interval	1	(Range: 1.	- 255; Default: 1)		interval between any 2 consecutive Beacon packets		
Wireless Connection Status	DTIMIInterval	1	(Runge: 1	255, Default: 1)		sent by device	. Available	
	Short GI	Enable	C Disable			values are bet 999. Do NOT		
	WMM Capable	Enable	O Disable			default value o	-	
	APSD Capable	C Enable	O Disable			necessary.		
						Fragment Th Max size of a		
		Sav	/e Cancel			transmit. Ente		
						Threshold (25		
						wireless packe	-	
						such set value divided into se		
						fragments, DC		
						the default val	-	
						unless necess	ary.	

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.

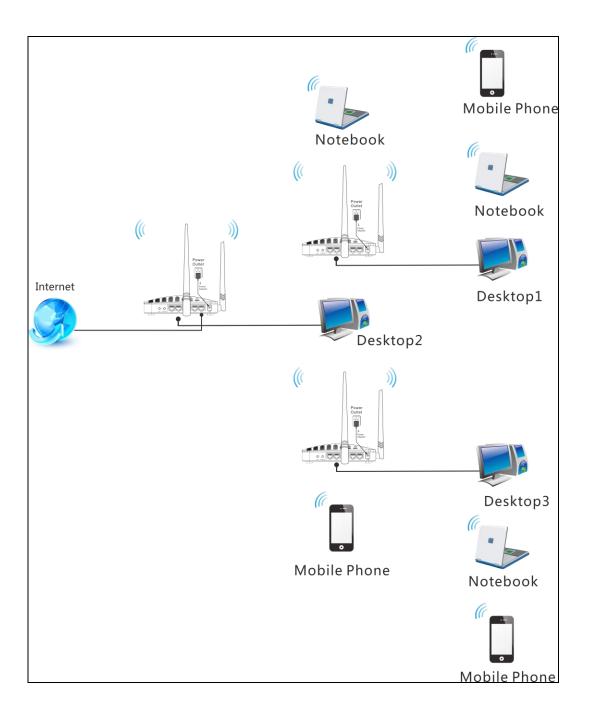
4 RTS Threshold: If a packet exceeds such set value, RTS/CTS scheme will be used to reduce collisions. Set it to a smaller value provided that there are distant clients and interference. For normal SOHO, it is recommended to keep the default value unchanged; otherwise, device performance may be degraded.

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.



3.6 Wireless Extender

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





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

Tenda			Version Product Name	V1.0.0.2 (7514) e. Wireless AC1200 Dual Band Roux			
	Home	Status	Network	Wireless	Advanced	Security	Tools
Basic	Wireless Extender					Helpful Hin	its
Guest Network	Band	2.4GHz		•		Enabling WDS	
Security	Mode	Disable		•		Repeater autor disables the W	
Advanced				_		Enabling WISP	Mode
Wireless Access Control		Sa	ve Cancel			automatically d	lisables the
Wireless Extender						WPS feature, W clone, Seconda	
WDC						Guest Network	
WPS						Universal Re	peater: In
Wireless Connection Status						this mode, the	router will
						relay data to a	
						root AP and AF	
						enabled mean	
						wireless repea	
						signal between	
						and the root A	-
						wireless range	
						WISP Mode: I	n this mode
						the router acqu	uires Internet
						access from a	
						Access Point. T	his method
						requires you to	set the
						wireless name	of Access
						Point, Channel	and Security
						to match the w	ireless Access

This device provides three modes to extend your wireless network:

• To extend your wireless network using the universal repeater feature, see

<u>Universal Repeater</u>.

• To extend your wireless network using the WISP client router (wireless

WAN) feature, see <u>WISP Mode</u>.

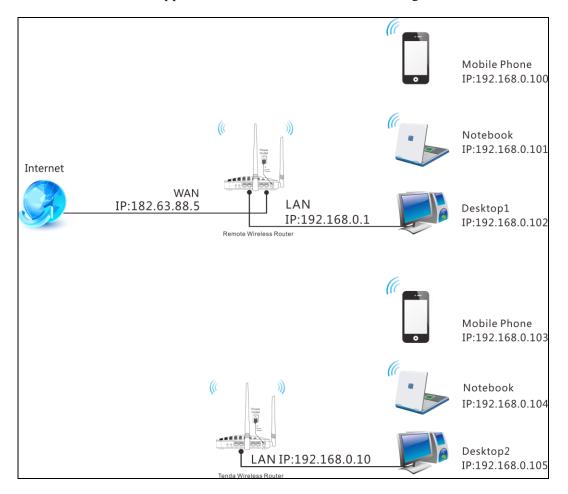
• To establish Wireless Distribution System and extend your wireless network, see WDS.

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

Tenda

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.

Tenda

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				67	Version Product Name	V1.0.0.2 (7514) Wireless AC1200) Dual Band Router
	Home	Status	Network	Wireless	Advanced	Security	Tools
LAN	LAN Settings					Helpful Hir	nts
WAN	Use this section to configur	re your router	's LAN IP settings	i.		IP Address:	
Port Mode	MAC Address	00:90:4C:0	1:60:3D			IP address. Al default gatewa	I LAN PC's ay must be set
MAC Clone	IP Address	192.168.0.	1			to this addres	s.
DHCP Server	Subnet Mask	255.255.25	5.0			Subnet Mask LAN subnet m	
DHCP Clients						commonly,255	5.255.255.0.
Static Assignment		Sav	e Cance	:1		All LAN PC's si must be set to	
DHCP - Guest Network						Note: 1.lf you	
Client List - Guest Network						LAN IP addres use the new o	
						the web utility	-
						2.If the new L	
						the same net s the old one, D	-
						will automatica	
						IP settings acc	
						old virtual serv	ver and DMZ
						settings will be	ecome
						inoperative; to	
						such, you mus	
						settings thereo	of.

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



Tenda	Home	Status	Network	Wireless	Version Product Name Advanced	V1.0.0.2 (7514) Wireless AC1200 Security	
		Status	NCLWOIX	WITCICSS	Advanced	Security	10013
Basic	Wireless Extender					Helpful Hii	nts
Guest Network	Band	2.4GHz		•		Enabling WDS	
Security	Mode	Universal	Repeater	•		Repeater auto disables the W	
Advanced	Remote SSID					Enabling WISP	
Wireless Access Control	Channel	Auto		-		automatically WPS feature, V	VAN MAC
Wireless Extender	Remote MAC Adderess			_		clone, Second Guest Networl	
WPS	Security Mode	None		•		Universal Re	
Wireless Connection Status	Security Mode	None				this mode, the relay data to a	
			Open Scan			root AP and A enabled mear	
						wireless repea signal betwee	
		Sa	cancel			and the root A wireless range	AP for greater
						WISP Mode:	
						the router acq access from a	
						Access Point.	
						requires you t	
						wireless name	of Access
						Point, Channel	I and Security

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

Tenda							Version Product Name	V1.0.0.2 (7514) Wireless AC1200 Dual Band Route		
		Home	Status	Networ	k Wi	reless	Advanced	Security	Tools	
Basic	Wire	less Extender						Helpful Hin	ts	
Guest Network		Banc	a 2.4GHz		-	I		Enabling WDS o		
Security		Mode	Universal R	epeater	•	I		Repeater autor disables the W		
Advanced		Remote SSIE						Enabling WISP I	Mode	
Wireless Access Control		Channe			-	1		automatically d WPS feature, W clone, Seconda	AN MAC	
Wireless Extender	Rem	ote MAC Adderes	5					Guest Network		
Wireless Connection Status		Security Mode	None		•			Universal Rep this mode, the	router will	
				Close Scan				relay data to a root AP and AP enabled mean	function is	
	Sel	. SSID	MAC Address	Ch	. Channel Bandwidt	· · · · ·	Signal Intensity	wireless repeat signal between		
		Tenda_0FF02D	C8:3A:35:00:0	2:94 11	40 MHz	WPA	-82 dBm	and the root Al 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 Product Name	V1.0.0.2 (7514) Wireless AC1200	Dual Band Router		
	Home	Status	Network	Wirele	ess	Advanced	Security	Tools		
Basic	Wireless Extender						Helpful Hir	its		
Guest Network	Band	2.4GHz		•			Enabling WDS	or Universal		
Comunity		2.40112					Repeater auto			
Security	Mode	Universal Re	peater	-			disables the W	PS feature.		
Advanced	Remote SSID	Tenda_0FF02	D				Enabling WISP	Mode		
Wireless Access Control	Kemote 221D						automatically o			
	Channel	2462MHz (CI	nannel 11)	-			WPS feature, W			
Wireless Extender							clone, Seconda Guest Network			
WPS	Remote MAC Adderess	C8:3A:35:00:0	02:94				GREDETTEET			
	Security Mode	WPA-PSK/W	PA2-PSK	•			Universal Re			
Wireless Connection Status							this mode, the relay data to a			
	Authentication Type	WPA-PSK		-			root AP and AF			
	Cieles Ture	450		•			enabled meanwhile. The			
	Cipher Type	AES					wireless repeater relays			
	Security Key	•••••		🗖 Display Key		signal betweer and the root A				
							wireless range	2		
		(8-63 ASCII o	r 64 hex charact	ers)						
							WISP Mode: I			
			Open Scan				the router acq access from a			
							Access Point, 1			
							requires you to			
							wireless name			
		Save	Cancel				Point, Channel	and Security		
							to match the wireless Access			

 This router's primary SSID will automatically change to match that of the remote router when the Universal Repeater feature is configured successfully. Please do not change this SSID. Changing this SSID may interrupt the wireless bridge link.
 When the Universal Repeater is configured successfully, wireless clients need to join this Tenda wireless router's SSID for Internet access.

▲ Note -----

Verify Bridge Connectivity:

(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.



🕹 Local S	tatus	?	×
General	Support		_
Connec	ction status Address Type: IP Address: Subnet Mask:	Assigned by DHCP 192. 168. 0. 10 3 255. 255. 255. 0	Last number differs from that of the remote wireless router's LAN IP address.
	Default Gateway: Details	192. 168. 0. 1	This is the remote router's LAN IP address.
Window: connecti Repair.	s did not detect problems with th ion. If you cannot connect, click	is Repair	
		Close	



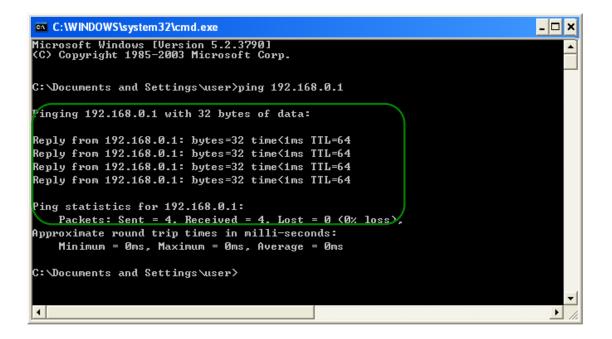
③ Click Start -> R u n .

Administrator	
Internet Internet Explorer	赺 My Documents
E-mail	My Recent Documents >
Outlook Express	🖄 My Pictures
G Show Desktop	🧀 My Music
C: Command Prompt	😏 My Computer
Tour Windows XP	Control Panel
6 DC++	Connect To
Tenda Wireless Utility	Printers and Faxes
🦉 Paint	Help and Support
Windows Media Player	P Search
All Programs 🕨	
	Log Off 🚺 Turn Off Computer

④ Enter **cmd** and click **OK**.

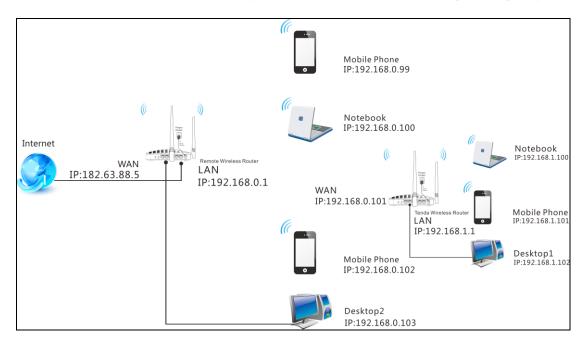
Run	? 🔀
-	Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.
Open:	cmd 💌
	OK Cancel Browse

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 (highlighted area), the bridge is established successfully.



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 the 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 Internet.

🖗 _{Тір-----}

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

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

Configuration Procedures:



LAN WAN Port Mode MAC Clone DHCP Server DHCP Clients Static Assignment DHCP - Guest Network Client List - Guest Network	Home N Settings Connection Typ M1		P (Default	Wireless	Advanced	Security Helpful Hin Dynamic IP: : obtain IP settin automatically f	Select it to
WAN Port Mode MAC Clone DHCP Server DHCP Clients Static Assignment DHCP - Guest Network	Connection Typ	TU 1450				Dynamic IP: 1 obtain IP settin	Select it to
Port Mode MAC Clone DHCP Server DHCP Clients Static Assignment DHCP – Guest Network		TU 1450				obtain IP settin	
MAC Clone DHCP Server DHCP Clients Static Assignment DHCP - Guest Network	МТ		(Default	: 1450)			gs
DHCP Server DHCP Clients Static Assignment DHCP - Guest Network		Sa					
DHCP Clients Static Assignment DHCP – Guest Network		Sa				connection if yo not give you ar	
Static Assignment DHCP – Guest Network		00	/e Cance	1		account info.	
DHCP – Guest Network						Static IP: Sele	
						Enter IP addre mask, Primary	ss, subnet
Client List – Guest Network						secondary DNS	5 info, etc
						provided by yo corresponding	
						PPPoE: Select is using a PPPo and enter PPPo and password by your ISP.	E connection DE user name
						MTU: Maximu	
						Transmission U default value v according to di	aries ifferent
						Internet connec DO NOT chang	

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

2 Click Wireless -> Wireless Extender, select WISP Mode and click

Tenda		Version Product Name						
	Home	Status Network	Wireless	Advanced	Security	Tools		
Basic	Wireless Extender				Helpful Hir	its		
Guest Network	Band	2.4GHz	•		Enabling WDS			
Security	Mode	WISP Mode	•		Repeater auto disables the W			
Advanced	Remote SSID				Enabling WISP			
Wireless Access Control	Channel	2462MHz (Channel 11)	~		automatically o WPS feature, W	VAN MAC		
	Remote MAC Adderess				clone, Seconda Guest Network			
WPS Wireless Connection Status	Security Mode	None	•		Universal Re this mode, the	router will		
		Open Scan			relay data to a root AP and Al enabled mean	P function is		
		Save Cancel			wireless repea signal betweer and the root A wireless range	n its stations P for greater		
					WISP Mode: I the router acq access from a	uires Internet wireless		
					Access Point. T requires you to wireless name Point, Channel	o set the of Access		
					to match the w	vireless Access		

3 Select the remote router's wireless network (SSID) and click Close

Tenda					Version Product Name	V1.0.0.2 (7514) Wireless AC1200) Dual Band Route		
	Home	Status Ne	twork W	Vireless	Advanced	Security	Tools		
Basic	Wireless Extender					Helpful Hir	ıts		
Guest Network	Band 2.4GHz						Enabling WDS or Universal		
Security	Mode	WISP Mode		-		Repeater auto disables the W			
Advanced	Remote SSID			_		Enabling WISP	Mode		
Wireless Access Control	Channel			•		automatically (WPS feature, V			
Wireless Extender		2462MHz (Chann	el 11)			clone, Seconda Guest Network			
WPS	Remote MAC Adderess					Universal Re			
Wireless Connection Status	Security Mode	None		-		this mode, the	router will		
		Close	Scan			relay data to a root AP and A enabled mean	P function is		
	Sel SSID	MAC Address	Ch Channe Bandwi		Signal Intensity	wireless repea	n its stations		
	Tenda_130518	C8:3A:35:13:05:18	6 40 MHz	WPA2	-69 dBm	and the root A wireless range	-		
	Tenda_07A050	C8:3A:35:07:A0:50	7 40 MHz	none	-74 dBm	WISP Mode:	In this mode		

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 Product Name	V1.0.0.2 (7514) Wireless AC1200	Dual Band Router		
	Home	Status	Network	Wire	less	Advanced	Security	Tools		
Basic	Wireless Extender						Helpful Hir	its		
Guest Network	Band 2.4GHz				Enabling WDS or Universal					
Security	Mode	WISP Mo	de	-			Repeater auto disables the W			
Advanced	Remote SSID	Tenda_1	30518	_			Enabling WISP Mode			
Wireless Access Control	Channel	2437MHz	(Channel 6)	-			automatically o WPS feature, W	AN MAC		
Wireless Extender	Remote MAC Adderess	s C8:3A:35:13:05:18					clone, Secondary SSID,and Guest Network.			
WPS Wireless Connection Status	Security Mode	WPA-PSI	KWPA2-PSK	•			Universal Repeater: In this mode, the router will relay data to an associated root AP and AP function is			
	Authentication Type	WPA2-PS	ЗК	-						
	Cipher Type	AES					enabled meanwhile. The wireless repeater relays			
	Security Key	•		🗖 Di	Display Key	signal between its stations and the root AP for greater				
	(8-63 ASCII or 64 hex characters)						wireless range.			
	Re-scan						WISP Mode: In this mode the router acquires Internet access from a wireless Access Point. This method			
	Save Cancel					o set the of Access and Security ireless Access				

6 Click **Reboot** on the appearing screen to reboot the router.

Tenda					Version Product Name	V1.0.0.2 (7514) Wireless AC1200	
	Home	Status	Network	Wireless	Advanced	Security	Tools
Basic Guest Network Security Advanced Wireless Access Control Wireless Extender	Hints To activate new setting		boot the device.	ot		Helpful Hir Enabling WDS Repeater auto disables the W Enabling WISP automatically o WPS feature, W clone, Seconda Guest Network	or Universal matically PS feature. Mode disables the /AN MAC ary SSID, and

Tenda

(6) System automatically enters the home page (Quick Internet Setup screen) after reboot. Click the **Advanced** button there.

Tenda	Version V4(0,012 (7514) Product Name Wireless AC1200 Dual Band Router
Internet Connection Setup Internet Connection Type	C PPPoE © Dynamic IP For other connection types, click " <u>Advanced</u> " Current Mode is WISP.
Wireless Security Setup 2.4G Security	•••••••• (Default: 12345678) © High C Medium C Low
	Save Cancel

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

Tenda					Version Product Name	V1.0.0.2 (7514) Wireless AC1200	
	Home	Status	Network	Wireless	Advanced	Security	Tools
System Status	WAN Status					Helpful Hir	its
WAN Status	WAN Medium Type	2.4GHz WIS	5P			This section di	isplays WAN
LAN Status	Connection Type	Dynamic IP				port status.	
Wireless Status	Connection Status	Connecting					
Connection Status	MAC Address	00:90:4C:0)1:70:3D				
	IP Address	192.168.3	0.176				
	Subnet Mask	255.255.2	55.0				
	Gateway	192.168.3	0.1				
	Primary DNS Server	192.168.3	0.1				
	Secondary DNS Server	0.0.0.0					
	Connection Duration	0Day(s)01:	30:27				
		Rele	ase Refres	٦			

(8) 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 Product Name						V1.0.0.2 (7514) 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 confi MAC Addres IP Addres Subnet Masi	gure your route s 00:90:4C: s 192.168.1 k 255.255.2	er's LAN IP settings 01:60:3D .1			Helpful Hir IP Address: IP address: All default gateway to this address: Subnet Mask LAN subnet m commonly,255 All LAN PC's su must be set to Note: 1.If you LAN IP address use the new or the web utility. 2.If the new L4 the same net s the old one, D will automatica IP settings acc old virtual serv settings will be inoperative; to such, you mus settings theree	ALS Router's LAN I LAN PC's ay must be set s. c: Router's ask, 5.255.255.0. Johnet mask to this value. a change the s, you must ne to log on to AN IP is not on segment with HCP server ally update its ordingly while ver and DMZ ecome t renew the IP		

(9) Click **OK** on the appearing screen to reboot the router.



(0) Click **Reboot** on the appearing screen to reboot the router.

Tenda				Version Product Name	V1.0.0.2 (7514) Wireless AC1200			
	Home Status	Network	Wireless	Advanced	Security	Tools		
	Hints				Helpful Hil	nts		
WAN	To activate new settings, you must reb	oot the device.			IP Address Al			
Port Mode	Conti	Continue Reboot						
MAC Clone					to this addres	5.		
DHCP Server					Subnet Mask LAN subnet m			
DHCP Clients					commonly,25	5.255.255.0.		
Static Assignment					All LAN PC's si must be set to			
DHCP - Guest Network					Note: 1.lf you	change the		
Client List – Guest Network					LAN IP addres use the new o the web utility	ne to log on to		
					2. If the new Li the same net : the old one, D will automatica IP settings acc old virtual sen settings will bi inoperative; to such, you mus settings there	segment with HCP server ally update its ordingly while ver and DMZ ecome o re-activate t renew the IP		

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

Tenda				n V1.0.0.2 (7514) ct Name Wireless AC1200 Dual Band Router			
	Home	Status	Network	Wireless	Advanced	Security	Tools
System Status	WAN Status					Helpful Hir	its
WAN Status	WAN Medium Type	2.4GHz WI	SP			This section di	splays WAN
LAN Status	Connection Type	Dynamic IP				port status.	
Wireless Status	Connection Status	Connected					
Connection Status	MAC Address	C8:3A:35:0	0:01:CC				
	IP Address	192.168.0.	101				
	Subnet Mask	255.255.25	5.0				
	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				
		Rela	ase Refres	h			

▲_{Note} -----

1. This router's primary SSID will automatically change to match that of the remote router when the WISP (client router) mode feature is configured successfully. Please do not change this SSID. Changing this SSID may interrupt the wireless link.

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

Verify Bridge Connectivity:

() 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.

🕹 Local Status	? 🛛	
General Support		
Connection status Address Type: A:	ssigned by DHCP 192. 168. 1. 100 255. 255. 255. 0 192. 168. 1. 1 Repair	Last number differs from that of this Tenda router's LAN IP address. This is the LAN IP address of this Tenda router.
	Close	



3 Click Start ->Run

Administrator	
Internet Internet Explorer	My Documents
E-mail Outlook Express	My Recent Documents → My Pictures
Show Desktop	🧭 My Music
Command Prompt	My Computer
Tour Windows XP	Control Panel
0C++	Connect To
Tenda Wireless Utility	Vinters and Faxes
🥁 Paint	Help and Support
Windows Media Player	P Search
All Programs 🕨	
	Log Off 🚺 Turn Off Computer

④ Enter **cmd** and click **OK**.

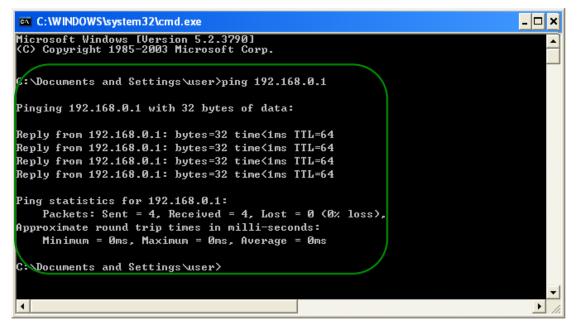
Run	? 🛛
-	Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.
Open:	cmd 💌
	OK Cancel Browse



(5) Enter "ping Tenda router's gateway IP address" . Here in this example,

enter "ping 192.168.0.1" and press Enter. If you see a similar screen

(highlighted area), the bridge is established successfully.



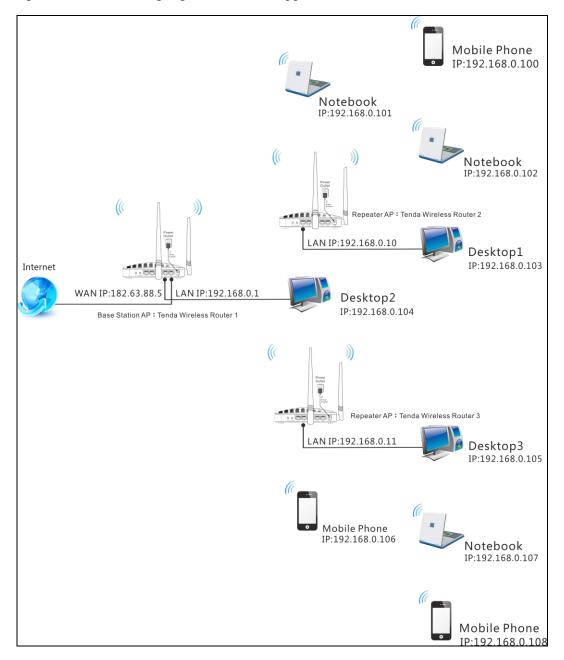
WDS Mode

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

Operating in Wireless AP mode, clients can access Internet by connecting to the router via an Ethernet cable or wirelessly. Operating in Wireless Bridge mode, clients can access 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 AP, 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.

WDS Mode: Select Wireless AP.

3 SSID: Customize a SSID, for example, Tenda_home.

Channel: Specify a channel for the base station AP to operate on, for example, 2437MHz (Channel 6).

6 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.

Tenda				Version Product Name	V1.0.0.2 (7514) Wireless AC1200	Dual Band Router
	Home	Status Network	Wireles		Security	Tools
Basic	Wireless Extender				Helpful Hin	ts
Guest Network	Band	2.4GHz	•		Enabling WDS	
Security	Mode	WDS Mode	•		Repeater autor disables the W	
Advanced	WDS Mode	Wireless AP	•		Enabling WISP	
Wireless Access Control	Remote SSID	Tenda_home			automatically d WPS feature, W	AN MAC
Wireless Extender	Channel	2437MHz (Channel 6)	~		clone, Seconda Guest Network	
WPS	Remote MAC Adderess	C8:3A:35:00:01:C8			Universal Re	
Wireless Connection Status	Remote MAC Adderess	C8:3A:35:13:05:18			this mode, the relay data to a	n associated
	Security Mode		~		root AP and AF enabled mean	
	Security Mode	WPA-PSK/WPA2-PSK			wireless repea signal between	
	Authentication Type	WPA-PSK	~		and the root A	P for greater
	Cipher Type	AES	~		wireless range	
	Security Key	•••••	Γ	Display Key	WISP Mode: I the router acqu	uires Internet
		(8-63 ASCII or 64 hex charact	ers)		access from a Access Point. T	
		Open Scan			requires you to wireless name Point, Channel to match the w Point.	of Access and Security

⑦ Click **Save** to save your settings.

8 Click Network -> DHCP Server on the base AP's configuration interface

to enable the DHCP server.



Tenda	Version V4(0.0/2 (7514) Product Name Wirsless AC1200 Dual Band R							
	Home	Status	Network	Wirele	ss Advanced	Security	Tools	
LAN	DHCP Server					Helpful Hir	nts	
WAN Port Mode	The Dynamic Host Configu used on IP networks. If you automatically configure TC	The Dynamic Host Configuration Protocol (DHCP) is an automatic						
MAC Clone	address, subnet mask, ga DHCP Server	teway and Di	-	an res in Daw	, including ir	CDFLCF) 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		
DHCP Clients Static Assignment	Start IP Address End IP Address	192.168.0. 192.168.0.						
DHCP - Guest Network	Primary DNS Server	192.168.0.	1			address, subn gateway and [iet mask,	
Client List - Guest Network	Secondary DNS Server Lease Time	1 day Sav	/e Cance	I		Start/End IP Specify a IP ad for DHCP assig entering a star address.	ldress range	
						router and set	nust reboot the all LAN PC's s to 'Obtain an	

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

① Click Network -> LAN to specify a LAN IP address that is in the same

Tenda					Version Product Name	V1.0.0.2 (7514) Wireless AC1200	
	Home	Status	Network	Wireless	Advanced	Security	Tools
LAN	LAN Settings					Helpful Hin	nts
WAN	Use this section to co	nfigure your rout	er's LAN IP setting:	5.		IP Address:	
Port Mode MAC Clone	MAC Addr					IP address. Al default gatewa to this addres	ay must be set
DHCP Server	IP Addr Subnet Ma					Subnet Masi	
DHCP Clients		Sa	ave Cance	el		commonly,25 All LAN PC's s	ubnet mask
Static Assignment DHCP - Guest Network Client List - Guest Network						must be set to Note: 1.If you LAN IP addres use the new o the web utility	u change the ss, you must ne to log on to
						2.If the new Li the same net the old one, D will automatics IP settings acco old virtual ser settings will b inoperative; to such, you mus settings there	HCP server ally update its cordingly while ver and DMZ ecome o re-activate st renew the IP

subnet as yet different from the base station AP.

Click **OK** in the appearing screen.

2 Click Wireless -> Wireless Extender, select WDS Mode from the Mode drop-down

Tenda					Version Product Name	V1.0.0.2 (7514) Wireless AC1200	Dual Band Router
	Home	Status	Network	Wireless	Advanced	Security	Tools
Basic	Wireless Extende	r				Helpful Hir	Its
Guest Network	Ban	2.4GHz		•		Enabling WDS Repeater auto	
Security	Mod	WDS Mod	e	•		disables the W	
Advanced Wireless Access Control	WDS Mod	Wireless	AP	•		Enabling WISP automatically o	disables the
Wireless Extender	Remote SSI					WPS feature, W clone, Seconda Guest Network	ary SSID, and
WPS	Channe Remote MAC Adderes		(Channel 6)	•		Universal Re	
Wireless Connection Status	Remote MAC Adderes	5				this mode, the relay data to a root AP and Al	n associated
	Security Mod	None				enabled mean wireless repea	ter relays
			Open Scan			signal betweer and the root A wireless range	P for greater
		Sa	ve Cance	I		WISP Mode: I the router acq access from a Access Point. T requires you to wireless name	uires Internet wireless This method o set the of Access
						Point, Channel to match the w	

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

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

Scan.

Tenda	Version Vil 010.2 (75.74) Product Name Wincless AC1 200 Duel Band Router									
		Home	Status	Networ	k Wi	reless	Advanced	Security	Tools	
Basic	Wire	less Extende	r					Helpful Hir	its	
Guest Network		Ban	d 2.4GHz		•			Enabling WDS Repeater auto		
Security		Mod	e WDS Mod	e	•			disables the WPS feature.		
Advanced		WDS Mod	e Wireless /	۱P	-			Enabling WISP		
Wireless Access Control		Remote SSI			_]		automatically o WPS feature, W		
Wireless Extender		Nemote 55						clone, Seconda Guest Network		
WPS		Channe	el 2437MHz	(Channel 6)	•					
Wireless Connection Status	Rem	ote MAC Adderes	s					Universal Re this mode, the		
	Rem	ote MAC Adderes	s					relay data to a		
		Security Mod	e None		-			enabled mean wireless repea	while. The	
				Close Scan				signal betweer and the root A wireless range	P for greater	
	Sel	. SSID	MAC Addres	s Ch.	Channel Bandwidt		Signal Intensity	WISP Mode: I the router acq		
		Tenda_home	C8:3A:35:0F:	F0:2D 6	40 MHz	WPA	-82 dBm	access from a		

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 Product Name	V1.0.0.2 (7514) Wireless AC1200	Dual Band Route
	Home	Status	Network	Wirele	255	Advanced	Security	Tools
Basic	Wireless Extender						Helpful Hir	its
Guest Network	Band	2.4GHz		•			Enabling WDS Repeater auto	
Security	Mode	WDS Mode		•			disables the W	PS feature.
Advanced							Enabling WISP	Mode
	WDS Mode	Wireless AP		•			automatically o	
Wireless Access Control	Remote SSID	Tenda_home	е				WPS feature, W	
Wireless Extender							clone, Seconda Guest Network	
WPS	Channel	2437MHz (C	hannel 6)	~			Guest Network	h
	Remote MAC Adderess	C8:3A:35:0F:	F0:2D				Universal Re	
Wireless Connection Status							this mode, the relay data to a	
	Remote MAC Adderess						root AP and AF	
	Security Mode	WPA-PSK/W	PA2-PSK	~			enabled mean	
			TAL FOR				wireless repea signal betweer	
	Authentication Type	WPA-PSK		~			and the root A	
	Cipher Type	450					wireless range	
		AES		*			WISP Mode: I	n this mode
	Security Key	•••••			🗖 Displ	ay Key	the router acq	
		(8-63 ASCII o	r 64 hex charac	ters)			access from a Access Point, T	
							requires you to	
		wireless name	of Access					
			Re-scan				Point, Channel	
							to match the w	vireless Access



Tenda					Version Product Name	V1.0.0.2 (7514) Wireless AC1.200	Dual Band Router
	Home	Status	Network	Wireless	Advanced	Security	Tools
LAN	DHCP Server					Helpful Hir	ıts
WAN	The Dynamic Host Configu			-		The Dynamic H	
Port Mode	used on IP networks. If yo automatically configure TC					Configuration I (DHCP) is an a	
MAC Clone	address, subnet mask, ga	ateway and Di	NS etc			configuration p on IP networks	
DHCP Server	DHCP Server	Disable	C Enable			the built-in DF	ICP server on
DHCP Clients	Start IP Address	192.168.0.	100			automatically o	onfigure
Static Assignment	End IP Address	192.168.0.	200			TCP/IP protoco all PCs in LAN,	including IP
DHCP - Guest Network	Primary DNS Server	192.168.0.	1			address, subn gateway and E	
Client List – Guest Network	Secondary DNS Server					Start/End IP	
	Lease Time	1 day Sav	/e Cance	2		Specify a IP ad for DHCP assig entering a star address.	gnment by
						Note: To activ feature, you m router and set TCP/IP setting: IP address aut	all LAN PC's s to 'Obtain an

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

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

① Click Network -> LAN to specify a LAN IP address that is in the same

Home	Status	Network	Wire	eless	Advanced	Wireless AC12001	Tools
LAN Settings							
LAN Settings							
						Helpful Hin	ts
Use this section to config	jure your route	er's LAN IP settings	-				
MAC Address	IP address. All LAN PC's default gateway must be set						
IP Address	192.168.0	.11				to this address.	
Subnet Mask	255.255.2	:55.0					
		-				commonly,255.	.255.255.0.
	Sa	Cance					
							-
						the web utility.	
							-
						will automatical	ly update its
						-	
						-	
	MAC Address	Use this section to configure your route MAC Address 00:90:4C: IP Address 192.168.0 Subnet Mask 255.255.2	Use this section to configure your router's LAN IP settings MAC Address 00:90:4C:01:60:3D IP Address 192.168.0.11 Subnet Mask 255.255.255.0	Use this section to configure your router's LAN IP settings. MAC Address 00:90:4C:01:60:3D IP Address 192.168.0.11 Subnet Mask 255.255.255.0	Use this section to configure your router's LAN IP settings. MAC Address 00:90:4C:01:60:3D IP Address 192.168.0.11 Subnet Mask 255.255.255.0	Use this section to configure your router's LAN IP settings. MAC Address 00:90:4C:01:60:3D IP Address 192.168.0.11 Subnet Mask 255.255.0	Use this section to configure your router's LAN IP settings. MAC Address 00:90:4C:01:60:3D IP Address 192.168.0.11 Subnet Mask 255:255.255.0 Save Cancel Note: 1.fr you LAN IP address use the new on

subnet as yet different from the base AP and the other remote AP.



② Click **OK** in the appearing screen.

③ 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 Product Name	V1.0.0.2 (7514) Wireless AC1200	
	Home	Status	Network	Wireless	Advanced	Security	Tools
Basic Guest Network Security Advanced	Wireless Extender Band Mode	2.4GHz WDS Mod	-	×		Helpful Hir Enabling WDS Repeater auto disables the W Enabling WISP	or Universal matically IPS feature.
Wireless Access Control	WDS Mode Remote SSID	Wireless / Tenda_01		•		automatically o WPS feature, W clone, Seconda	disables the VAN MAC
Wireless Extender WPS	Channel	2437MHz	(Channel 6)	•		Guest Network	c
Wireless Connection Status	Remote MAC Adderess Remote MAC Adderess					this mode, the relay data to a root AP and AP	router will in associated
	Security Mode	None	Open Scan	•		enabled mean wireless repea signal betweer and the root A wireless range	iter relays n its stations P for greater
		Sav	ve Cancel			WISP Mode: I the router acq access from a Arcess Point. J	uires Internet wireless

(4) Search for and select the base station AP's SSID and then click **Close**

Scan.

Tenda					Version Product Name	V1.0.0.2 (7514) Wireless AC1200	Dual Band Router
	Home	Status	Network	Wireless	Advanced	Security	Tools
Basic	Wireless Extender					Helpful Hir	Its
Guest Network	Banc	2.4GHz		•		Enabling WDS Repeater auto	
Security	Mode	WDS Mode				disables the W	-
Advanced	WDS Mode	Wireless AP		•		Enabling WISP	
Wireless Access Control	Remote SSIE)				automatically o WPS feature, W	AN MAC
Wireless Extender	Channe	2437MHz (C	hannel 6)	•		clone, Seconda Guest Network	
WPS	Remote MAC Adderes					Universal Re	
Wireless Connection Status	Remote MAC Adderes					this mode, the relay data to a root AP and AP	n associated
	Security Mode	None		•		enabled mean wireless repea	while. The
			Close Scan			signal betweer and the root A wireless range	P for greater
	Sel SSID	MAC Address		hannel Security andwidth	Signal Intensity	WISP Mode: I the router acq	
	Tenda_home	C8:3A:35:0F:F0	2D 6 4	0 MHz WPA	-82 dBm	access from a	

(5) 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 Product Name	V1.0.0.2 (7514) Wireless AC1200	Dual Band Route
	Home	Status	Network	Wireless	Advanced	Security	Tools
Basic	Wireless Extender					Helpful Hir	its
Guest Network	Band	2.4GHz		•		Enabling WDS Repeater auto	
Security	Mode	WDS Mod	e	•		disables the W	
Advanced	WDS Mode	Wireless /	AP	•		Enabling WISP automatically o	
Wireless Access Control	Remote SSID	Tenda_ho	me			WPS feature, W	AN MAC
Wireless Extender	Channel	2437MHz	(Channel 6)	~		clone, Seconda Guest Network	
WPS Wireless Connection Status	Remote MAC Adderess	C8:3A:35:0)F:F0:2D			Universal Re this mode, the	router will
	Remote MAC Adderess					relay data to a root AP and Al	
	Security Mode	WPA-PSK	/WPA2-PSK	*		enabled mean wireless repea	ter relays
	Authentication Type	WPA-PSK		~		signal betweer and the root A	P for greater
	Cipher Type	AES		~		wireless range	
	Security Key	•••••			Display Key	WISP Mode: I the router acq	uires Internet
		(8-63 ASCI	l or 64 hex charac	ters)		access from a Access Point. 1	
			Re-scan			requires you to wireless name Point, Channel to match the w	of Access and Security



6 Click Network -> DHCP Server, disable the DHCP server there and

then o	click	Save.
--------	-------	-------

Tenda					Version Product Name	V1.0.0.2 (7514) Wireless AC1200) Dual Band Router			
	Home	Status	Network	Wireless	Advanced	Security	Tools			
LAN	DHCP Server					Helpful Hir	nts			
WAN	The Dynamic Host Config			-	1 State 1 Stat	The Dynamic I				
Port Mode	used on IP networks. If yo automatically configure T(Configuration (DHCP) is an a				
MAC Clone	address, subnet mask, ga	address, subnet mask, gateway and DNS etc								
DHCP Server	DHCP Server	Oisable	e () Enable			the built-in DF				
DHCP Clients	Start IP Address	192.168.0	.100			automatically (configure			
Static Assignment	End IP Address	192.168.0	.200			TCP/IP protoco all PCs in LAN,	, including IP			
DHCP - Guest Network	Primary DNS Server	192.168.0	.1			address, subn gateway and [
Client List - Guest Network	Secondary DNS Server					Start/End IP				
	Lease Time	1 day		T		Specify a IP ad for DHCP assig	-			
		Sa	ve Cance	1		entering a star address.	rting/ending IP			
						Note: To acti feature, you m router and set TCP/IP setting IP address aut	nust reboot the all LAN PC's s to 'Obtain an			

▲_{Note} -----

1. To set up a wireless network with WDS, both access points must be WDS capable.

2. This router's primary SSID will automatically change to match that of the

remote router when the WDS feature is configured successfully. Please do not change this SSID. Changing this SSID may interrupt the wireless bridge link.

3. When the WDS is configured successfully; wireless clients need to join this

Tenda wireless router's SSID for Internet access.

Verify Bridge Connectivity:

(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 Setting.

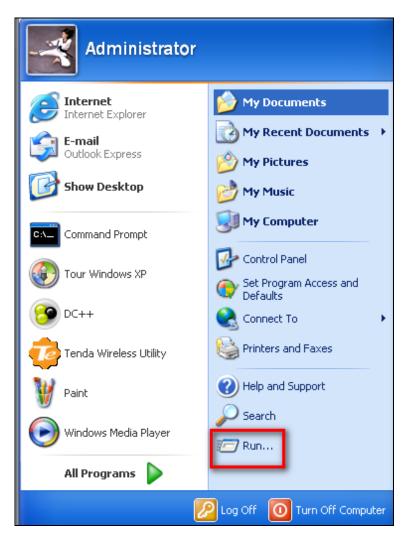
2 Wait until your PC successfully obtains an IP address.



📥 Local St	tatus	?	×
General	Support		_
Connec	tion status Address Type: IP Address: Subnet Mask: Default Gateway:	Assigned by DHCP 192. 168. 0. 10 3 255. 255. 255. 0 192. 168. 0. 1	Last number differs from that of the remote wireless router's LAN IP address. This is the remote router's LAN IP address.
	Details s did not detect problems with this on. If you cannot connect, click	s Repair	
		Close	



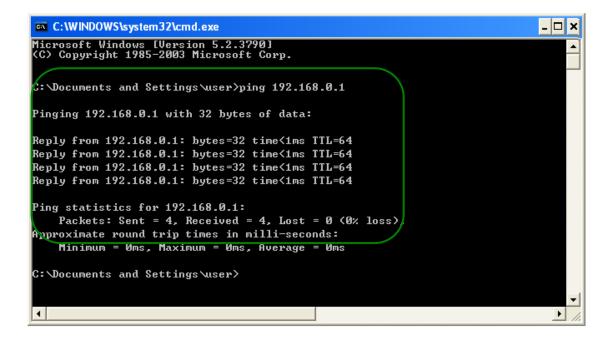
3 Click Start ->Run .



④ Enter **cmd** and click **OK**.

Run	? 🛛
-	Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.
Open:	cmd 💌
	OK Cancel Browse

(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 (highlighted area), the bridge is established successfully.



3.5 Access Control

Specify a list of devices to "Permit" or "Forbid" a connection to your wireless network via the devices' MAC Addresses. Click **Wireless -> Wireless Access Control** to enter the configuration screen.

There are three options available: Disable, Deny Access to Wireless Network and Allow Access to Wireless Network.

Tenda					XQ.	Version Product Name	V1.0.0.2 (7514) Wireless AC1200	Dual Band Router
	Home	Status	Net	twork	Wireless	Advanced	Security	Tools
Guest Network Security Advanced Wireless Access Control Wireless Extender	Vireless Acces E Access Co Filter M D MAC Addres	and 2.4GHz ntrol Disabled lode © Deny © Allow	Enable Access to	Wireless Net Wireless Net Description	work		Helpful Hir Wireless Acc "Disable" mean deactivate the Access Control "Allow Access I Network" mean specified MAC are allowed to your wireless n "Deny Access I Network" mean specified MAC are blocked to network. Selec new MAC addi	ess Control: ns to Wireless I feature. to Wireless ns PCs at addresses connect to network, while to Wireless ns PCs at addresses your wireless t "Add" to add

A. If you want to allow all wireless clients to join your wireless network, select **Disable**.

B. If you want to allow ONLY the specified wireless clients to join your wireless network, select Allow Access to Wireless Network.

C. If you want to disallow ONLY the specified wireless clients to join your wireless network, select Deny Access to Wireless Network.

Wireless Access Control Application Example:

To only allow your own notebook at the MAC address of C8:3A:35:C2:CA:E7 to

join your wireless network (SSID : Tenda_home)

Configuration Procedures:

- **1** Select the wireless band you wish to use, for example 2.4Ghz.
- 2 Click Enable.
- **3** Select Allow Access to Wireless Network.

Tenda		Version V4.0(0.2 (75.1%) Product Name Winaless AC1/200 Dual B							Dual Band Router	
		Home	Statu	is N	etwork	Wir	eless	Advanced	Security	Tools
Basic Guest Network Security Advanced Wireless Access Control Wireless Extender WPS Wireless Connection Status	Wir	eless Access Bi Access Con Filter Mi	and 2.4 trol Disa	IGHz bled Enat Deny Access Allow Access Status Pa	to Wireless	Network	Edit		Helpful Hin Wireless Acc "Disable" mean deactivate the Access Contro "Allow Access" Network" mean specified MAC are allowed to your wireless I "Deny Access I "Deny Access I Network" mean specified MAC are blocked to network. Select new MAC addi	ess Control: is to Wireless feature. to Wireless is PCs at addresses connect to network, while to Wireless is PCs at addresses your wireless t "Add" to add



• Click Add.

Tenda					<u> </u>	Version Product Name	V1.0.0.2 (7514) Wireless AC1200	Dual Band Router
	Hom	ie St	atus	Network	Wireless	Advanced	Security	Tools
Basic Guest Network Security Advanced Wireless Access Control Wireless Extender WPS Wireless Connection Status	Wireless A	Access Cont Band ess Control	C Deny Acces		twork		Helpful Hir Wireless Acco "Disable" mear deactivate the Access Control "Allow Access I Network" mear specified MAC are allowed to your wireless r "Deny Access t Network" mear specified MAC are blocked to	ITS ess Control: is to Wireless feature. :o Wireless is PCs at addresses connect to etwork, while o Wireless is PCs at addresses
			Add	Save CI	ear		network. Selec new MAC addr	



(5) Select or enter your wireless MAC address and click **Save**.

Tenda					Version Product Name	V1.0.0.2 (7514) Wireless AC1200	Dual Band Route
	Home	Status	Network	Wireless	Advanced	Security	Tools
Basic Guest Network Security Advanced Wireless Access Control	Wireless Access Co Use the Wireless Access C network. Select Client MAC Address	Control featur	r Client Select	s access to your w	ireless	Helpful Hin Wireless Acco "Disable" mean deactivate the ' Access Control "Allow Access t Network" mean specified MAC	ess Control: s to Wireless feature. o Wireless s PCs at addresses
Wireless Extender	Description					are allowed to your wireless n	
WPS	Status	Enable		~		"Deny Access to	Wireless
Wireless Connection Status		S	ave Back			Network" mean specified MAC are blocked to network. Select new MAC addr	addresses your wireless "Add" to add

6 Below screen will then appear.

Tenda								Version Product Name	V1.0.0.2 (7514) Wireless AC1200		
		Home	Statu	s N	etwork	Wire	eless	Advanced	Security	Tools	
Basic	Wir	eless Acces		Helpful Hir	nts						
Guest Network		E	and 2.4	GHz		•			Wireless Access Control:		
Security		Access Co		"Disable" means to deactivate the Wireless							
Advanced		Filter M		Access Control feature. "Allow Access to Wireless Network" means PCs at specified MAC addresses							
Wireless Access Control		riter M									
Wireless Extender									specified MAC addresses are allowed to connect to		
WPS	ID	MAC Addres	-	Status	Descript	ion	Edit		your wireless r "Deny Access t		
Wireless Connection Status	1	C8:3A:35:C2	:CA:E7	Enable			Edit	Delete	Network" mea	ns PCs at	
wireless Connection Status									specified MAC are blocked to		
				Pa	gel				network. Selec	t "Add" to add	
			Ac	ld S	ave	Clear			new MAC addi	ress entry.	
🧳											

- 1. Up to 16 wireless MAC addresses can be configured.
- 2. If you don't want to configure the complex wireless security settings and want to disallow others to join your wireless network, you can configure a wireless access control rule to allow only your own wireless device.

3.7 WPS Setup

Click **Wireless** -> **WPS** to enter WPS screen. Wi-Fi Protected Setup makes it easy for home users who know little of wireless security to establish a secure wireless home network, as well as to add new devices to an existing network without entering long passphrases or configuring complicated settings. Simply enter a PIN code or press the software PBC button or hardware WPS button (if equipped) and a secure wireless connection can be established.

A. If your wireless network is not secured, you can use the WPS to quickly encrypt your wireless.

B. If your wireless network is secured with WPS, you can quickly join your wireless network with a WPS capable adapter (Only WPA2-PSK and Mixed WPA/WPA2-PSK are supported).

You can use WPS PBC or WPS PIN to establish a secure connection.

• **PBC:** Establish WPS connection using the the software PBC button or hardware WPS button (if equipped).

• **PIN:** Establish WPS connection using the PIN code.

To secure a wireless network with WPS

Tenda				Version Product Name	V1.0.0.2 (7514) Wireless AC1200	Dual Band Route
	Home	Status Netwo	ork Wireless	Advanced	Security	Tools
Basic	WPS				Helpful Hir	its
Guest Network	Band	2.4GHz	•		Wi-Fi Protected	
Security	SSID	Tenda_01703D			makes it easy users who kno	w little of
Advanced	Device PIN	19505138			wireless securi a secure wirele	
Wireless Access Control	Enable WPS	O Disable ⓒ Enabl	e		network, as we new devices to	
Wireless Extender	WPS Mode	⊙ PBC ⊖ PIN			network withou long passphra	2
WPS		Reset OOB	Start PBC		configuring cor settings. Simpl	
Wireless Connection Status					code or press	
		Save	Cancel		PBC button or button (if any) wireless conne	and a secure
					established.	

You can use the following 4 methods to establish a WPS connection:

Method 1: Establish a WPS connection using PBC on the Web Manager:

- **1** Select a band, for example, 2.4GHz.
- 2 Click Enable.
- **③** Click **Save** to save your settings.
- **4** Click **Start PBC**.

(5) The WPS LED on this router will keep blinking for 2 seconds. Within these 2 minutes, enable WPS/PBC on the wireless client to join your wireless network.

Method 2: Establish a WPS connection using the hardware WPS button on the device:

1 Select a band, for example, 2.4GHz.

2 Click **Enable**.

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

Press and hold the WPS button on the back panel of this router for about
1-3 seconds and then release it.

The WPS LED on this router will keep blinking for 2 seconds. Within these2 minutes, enable WPS/PBC on the wireless client to join your wireless network.

Tenda

Method 3: Establish a WPS connection using the 8-digit PIN code from the wireless network adapter:

1 Select a band, for example, 2.4GHz.

2 Click Enable.

3 Select **PIN** and enter the 8-digit PIN code from the wireless network adapter.

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

6 Click **Start PIN**.

6 The WPS LED on this router will keep blinking for 2 seconds. Within these

2 minutes, enable WPS/PIN- Enrollee on the wireless client to join your wireless network.

Method 4: Establish a WPS connection using the 8-digit PIN code from the device:

- ① Select a band, for example, 2.4GHz.
- **2** Click **Enable**.
- 3 Select PIN.

(d) Click **Save** to save your settings.

6 Click **Start PIN**.

The Enable WPS/PIN on your router and WPS/PIN- Enrollee on the wireless client, and then enter the 8-digit PIN code from your router to join your wireless network.

To quickly join a secured wireless network with WPS

If you have already secured your wireless network with WPS or WPA2-PSK or Mixed WPA/WPA2-PSK and you want to join your wireless network but you hate to enter or forget the security key, do as follows:

Method 1: Establish a WPS connection using the hardware WPS button on the router:

① Check the WPS LED status on the router. It should display a solid light.

Press and hold the WPS button on the back panel of this router for about
 1-3 seconds and then release it.

3 The WPS LED on this router will keep blinking for 2 seconds. Within these

2 minutes, enable WPS/PBC on the wireless client to join your wireless network.

Method 2: Establish a WPS connection using the 8-digit PIN code from the router:

- ① Check the WPS LED status on the router. It should display a solid light.
- Enable WPS/PIN- Registrar on the wireless client and enter the 8-digit PIN
 code from your router to join your wireless network.

3.8 Connection Status

Click **Wireless** -> **Connection Status**. Here you can see a list of wireless devices connected to the router.

Tenda					Version Product Name	V1.0.0.2 (7514) 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	Connection Sta This section display			S Duratio	on Speed	Helpful Hin This section d wireless client	splays	
Тір								

You can know whether there are unauthorized accesses to your wireless network by viewing the wireless client list.

4 Advanced Applications

4.1 Bandwidth Control

If there are multiple PCs behind your router competing for limited bandwidth resource, then you can use this feature to specify a reasonable amount of bandwidth for each such PC, so that no one will be over stuffed or starved to death. Click

Advanced -> Bandwidth Control to enter the bandwidth control screen.



-----🖌 Tip 1. 1M = 128 KByte/s.

2. The volume of uplink traffic/downlink traffic should not be larger than that allowed on the router's WAN (Internet) port. You can ask your ISP to provide the volume of Internet traffic.

Bandwidth Control Application Example:

If you share a 4M-broadband service with your neighbor. He always downloads a large volume of data from Internet, which sharply frustrates your Internet surfing experience; you can use this feature to set limits for the volume of Internet traffic he can get. For example, you can split the 4M into two, so your neighbor can only use up to 2M Internet traffic and you can enjoy 2M. (Assuming the IP address of your neighbor's PC is 192.168.0.100. 2M=256KByte/s)

Configuration Procedures:

- 1 Click Advanced -> Bandwidth Control.
- 2 Click Add Bandwidth Control Rule.



Tenda	Version Product Nam	VI.0.0.2 (7514) e. Wireless ACI 200 Dual Band Router		
	Home Status Network Wireless Advanced	Security Tools		
Bandwidth Control	Custom Bandwidth Control	Helpful Hints		
DDNS	Here you can see a list of bandwidth control rules.	Enable: Indicates whether		
Virtual Server		an entry is active or not.		
DMZ Host	En IP Range Uplink/Downlink Description Action Limit(KBps)	IP Range: In IP range, each IP will acquire configured		
UPnP		bandwidth.		
Routing Table Static Routing	Add Bandwidth Control Rule Delete All Rules	Uplink/Download Limit: The maximum allowed upload/download speed limit on WAN port.		
		Action: Select either to edit or delete an entry.		

- **③** Enter 192.168.0.100 in the **IP Range** fields.
- (4) Enter 32 in the **Uplink Bandwidth** field.
- **(5)** Enter 256 in the **Downlink Bandwidth** field.
- 6 Click **Save** to save your settings.

Tenda					Version Product Name	V1.0.0.2 (7514) Wireless AC1200	Dual Band Router
	Home	Status	Network	Wireless	Advanced	Security	Tools
	Custom Bandwidth	Control				Helpful Hin	Its
DDNS	Here you can see a list of		rol rules.			Enable: Indica	
Virtual Server	V	Enable				an entry is acti	
DMZ Host	IP Range	192.168.0.10	0	- 192.168.0.100		IP Range: In I IP will acquire	
UPnP	Bandwidth Range					bandwidth.	-
Routing Table	Uplink Bandwidth	32		KBps		Uplink/Down The maximum	
Static Routing	Downlink Bandwidth	256		KBps		upload/downlo limit on WAN p	ad speed
	Description					Action: Select or delete an er	
		Save	Cance	91			

⑦ Click **Reboot** on the appearing screen to reboot the router.

Tenda					Version Product Name	V1.0.0.2 (7514) Wireless AC1200	Dual Band Router
	Home	Status	Network	Wireless	Advanced	Security	Tools
Bandwidth Control	Hints					Helpful Hir	Its
DDNS	To activate new se	ttings, you must rel	poot the device.			Enable: Indication an entry is action	
Virtual Server			Reboot				
DMZ Host						IP Range: In I IP will acquire	
UPnP						bandwidth.	
Routing Table						Uplink/Down The maximum	
Static Routing						upload/downlo limit on WAN p	
						Action: Select or delete an er	

8 System returns to the bandwidth control screen after reboot. You can view the rule you just add. Also you can click **Edit** to edit the rule or **Delete** to delete the rule. You can also add more rules.

Tenda	Version Product Name	V1.0.0.2 (7514) e Wireless AC1200 Dual Band Router		
	Home Status Network Wireless Advanced	Security Tools		
Bandwidth Control	Custom Bandwidth Control	Helpful Hints		
DDNS	Here you can see a list of bandwidth control rules.	Enable: Indicates whether		
Virtual Server		an entry is active or not. IP Range: In IP range, each IP will acquire configured		
DMZ Host	En IP Range Uplink/Downlink Description Action Limit(KBps)			
UPnP	Yes 192.168.0.100 - 32/256 Edit Delete	bandwidth. Uplink/Download Limit:		
Routing Table		The maximum allowed		
Static Routing	Add Bandwidth Control Rule Delete All Rules	upload/download speed limit on WAN port.		
		Action: Select either to edit or delete an entry.		

4.3 DDNS

Dynamic DNS or DDNS is a term used for the updating in real time of Internet Domain Name System (DNS) name servers. We use a numeric IP address allocated by Internet Service Provider (ISP) to connect to Internet; the address may either be stable ("static"), or may change from one session on the Internet to the next ("dynamic"). However, a numeric address is inconvenient to remember; an address which changes unpredictably makes connection impossible. The DDNS provider allocates a static host name to the user; whenever the user is allocated a new IP address this is communicated to the DDNS provider by software running on a computer or network device at that address; the provider distributes the association between the host name and the address to the Internet's DNS servers so that they may resolve DNS queries. Thus, uninterrupted access to devices and services whose numeric IP address may change is maintained.

Click Advanced -> DDNS to enter the DDNS screen.

Tenda						Version Product Name	V1.0.0.2 (7514) Wireless AC1200	Dual Band Router
	Home	Status	Network	Wir	eless	Advanced	Security	Tools
Bandwidth Control DDNS Virtual Server DMZ Host UPnP Routing Table Static Routing	DDNS DDNS Servic Service Provide User Nam Passwor Domain Nam Connection Statu	e dyndns e d		¥	Register	play Key	Helpful Hin The DDNS feat you to host a s FTP, Game Ser using a fixed d assigned by a provider. Simply click Re register a dom then enter the and password DDNS service p this router, and can use this re domain name t local server no your IP addres	ure allows erver (Web, ver, etc) omain name DDNS service gister to ain name and user name given by the orovider on d your friends gistered is access your matter what

Ý,

1. To use the DDNS feature, you need to have an account with one of the Service Providers in the drop-down menu first.

2. This router supports five DDNS service providers: 88ip.cn3322.org, gnway, dyndns and no-ip.

DDNS Application Example:

If your ISP gave you a dynamic (changing) public IP address, you want to access your router remotely but you cannot predict what your router's WAN IP address will be, and the address can change frequently. In this case, you can use a commercial Dynamic DNS service. It lets you register your domain to their IP address and forwards traffic directed at your domain to your frequently changing IP address. If you obtain the following account from your dyndns.org service provider:

User Name: tenda

Password: 123456

Domain Name: tenda.dyndns.org.

And you want to use the PC at 218.88.93.33 to remotely access this router on port number 8090.

Tenda				\mathcal{A}		Version Product Name	V1.0.0.2 (7514) Wireless AC1200	Dual Band Router
	Home	Status	Network	Wir	eless	Advanced	Security	Tools
Bandwidth Control	DDNS	• Enable	C. Dirable				Helpful Hin	
Virtual Server DMZ Host UPnP	DDNS Service Service Provider User Name	dyndns tenda		T	Register		you to host a se FTP, Game Sen using a fixed d assigned by a f provider.	erver (Web, ver, etc) omain name
Routing Table Static Routing	Password Domain Name	•••••• tenda.dynd	ns.org		Dis	play Key	Simply click Reg register a doma then enter the s	ain name and user name
	Connection Status	Disconnecte					and password DDNS service p this router, and can use this reg domain name t local server no your IP address	rovider on I your friends gistered o access your matter what

Configuration Procedures:

1 DDNS Service: Select **Enable**.

2 Service Provider: Select your DDNS service provider from the drop-down menu. Here in this example, select **dyndns**.

③ User Name: Enter the DDNS user name registered with your DDNS service provider. Here in this example, enter tenda.

4 Password: Enter the DDNS Password registered with your DDNS service provider. Here in this example, enter 123456.

5 Domain Name: Enter the DDNS domain name with your DDNS service provider. Here in this example, enter tenda.dyndns.org.

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

Click Security -> Remote Web Management, enable the Remote Web Management feature, enter 8090 in the Port field, 218.88.93.33 in the IP Address



field and then click Save to save your settings.

Tenda	Version Product Name Home Status Network Wireless Advanced	V1.000.2 (75.1%) Wineless AC1/200 DuallBand Router Security Tools
MAC Filter Client Filter	Remote Web Management	Helpful Hints
URL Filter Remote Web Management	Port 8090 (1024-65535)	Internet users manage your router using a web browser. Port: Specify a port through
	IP Address 218.88.93.33 Save Cancel	which a specified user accesses the router's web utility remotely from Internet. IP Address: Specify an IP address for managing the router remotely.

8 Click Reboot on the appearing screen to reboot the router.

Tenda					Version Product Name	V1.0.0.2 (7514) Wireless AC1200	
	Home	Status	Network	Wireless	Advanced	Security	Tools
MAC Filter Client Filter URL Filter Remote Web Management	Hints To activate new setti		boot the device.	oot		Helpful Hir Use this featur Internet users router using a Port: Specify which a specif accesses the r utility remotely Internet. IP Address: address for m router remotel	e to let manage your web browser. a port through ied user outer's web from Specify an IP anaging the

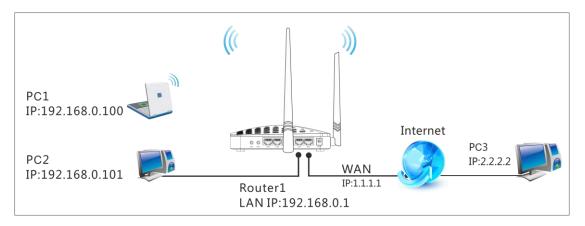
Now you can access the router from the Internet by entering http://tenda.dyndns.org:8090 in your browser.

4.1 Virtual Server

You want to share resources on your PC with your friends who are not in your LAN. But, by default, the router's firewall blocks inbound traffic from the Internet to your computers except replies to your outbound traffic. You can use the Virtual Server feature to create exceptions to this rule so that your friends can access these files from external networks.

Click Advanced -> Virtual Server to enter the configuration screen.





Application Example:

As shown in the diagram above, your PC (PC1: 192.168.0.100) connects to the

router and runs a FTP server on port number 21. Your friend (PC3) wants to access

the FTP server on your PC.

*Q*_{Tip} -----

1. Make sure your WAN IP address (Internet IP address) is a public IP address. Private IP addresses are not routed on the Internet.

2. Make sure you enter correct service port numbers.

3. To ensure that your server computer always has the same IP address, assign a static IP address to your PC.

4. Operating System built-in firewall and some anti-virus programs may block other PCs from accessing resources on your PC. So it is advisable to disable them before using this feature.



Tenda								sion duct Name	V1.0.0.2 (7514) Wireless AC1200	Dual Band Rout
	H	lome	Status	Network	Wirel	ess	Adv	vanced	Security	Tools
Bandwidth Control	Virtua	Server							Helpful Hin	ts
DDNS	Virtual Se	erver is usefu	Ext Port - Int	t Port: WAN						
		nternet appli ter's WAN po	service port.							
DMZ Host	statically	assign the h	ost's IP for this	function to be consi	stent.				Enable: Select selected entry.	
UPnP	ID Ex	t Port-Int Po	rt Inte	rnal IP	Protoco	bl	En	De	Delete: Click	"Delete" and
Routing Table	1 2	1 - 2	1 19:	2.168.0.100	Both	•			"Save" to remove	ve a selected
Static Routing	2	-			Both	•			Add to: Adds	a common
	3	-			Both	•			service port to corresponding	fields of a
	4	-			Both	•			given entry.	fields of a
	5	-			Both	•				
	6	_			Both	•				
	7	-			Both	•				
	8	_			Both	•				
	Well-kno	own Service F	Port DNS(5	_	ID 1	T				
				Page 1 2 3 4						
			5	Save Cance	el					

Configuration Procedures:

(1) Ext Port: Enter the external port number for the public ports at the Internet interface. Here in this example, enter 21.

Int Port: Enter the internal port number for the private ports at the computer on the router's local area network (LAN). Here in this example, enter 21.

2 Internal IP: Enter the IP address of your local computer that will provide this service. Here in this example, enter 192.168.0.100.

3 Protocol: Specify the protocol required for the service utilizing the port(s).

④ Check **Enable** to activate this rule.

(5) Click **Save** to save your settings.

Now, your friends only need to enter ftp://xxx.xxx.xxx.21in their browsers to access your FTP server. xxx.xxx.xxx is the router's WAN IP address. Assuming it is 172.16.102.89, then your friends need to enter ftp://202.33.56.88:21 in their browsers.

∧_{Note} -----

If you use the port number 80 here, you must set the port number for remote web management (Click **Tools -> Remote Web Management**) to any port number excluding 80 to avoid collision. Otherwise the port forwarding feature may not be effective.

4.2 DMZ Host

The DMZ (De-Militarized Zone) function disables the firewall on the router for one

device for a special purpose service such as Internet gaming or video conferencing

applications that are not compatible with NAT (Network Address Translation).

Click Advanced -> DMZ Host to enter the DMZ Host screen.

A_{Note}

1. DMZ host poses a security risk. A computer configured as the DMZ host loses much of the protection of the firewall and becomes vulnerable to attacks from external networks.

2. Hackers may use the DMZ host computer to attack other computers on your network.

Tenda					Version Product Name	V1.0.0.2 (7514) Wireless AC1200	Dual Band Router
	Home	Status	Network	Wireless	Advanced	Security	Tools
Bandwidth Control DDNS Virtual Server DMZ Host	DMZ HOST Note: DMZ host poses a s protection of the firewall Enable	and is expose			t loses	Helpful Hin In some cases, set a compute completely exp extranet for im of a 2-way cor	, we need to r to be posed to aplementation
UPnP	DMZ Host IP	192.168.0	.100			To do so, we s host by enterin	et it as a DMZ
Routing Table Static Routing		Sa	Ve Cance	I		address and e DMZ feature.	-

Configuration Procedures:

() Enable: Check to enable the DMZ host.

2 DMZ Host IP Address: The IP Address of the device for which the router's firewall will be disabled. Be sure to statically set the IP Address of that device for this function to be consistent.

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



, Tip -----

1. Be sure to statically set the IP Address of the computer that serves as a DMZ host for this function to be consistent.

2. Security softwares such as anti-virus software and OS built-in firewall, etc may affect the DMZ host feature. Disable them if DMZ host fails.

4.4 UPnP

The Universal Plug and Play (UPnP) feature allows network devices, such as computers from Internet, to access resources on local host or devices as needed. UPnP-enabled devices can be discovered automatically by the UPnP service application on the LAN. If you use applications such as multiplayer gaming, peer-to-peer connections, real-time communications such as instant messaging, or remote assistance (a feature in Windows XP), you may need to enable Universal Plug and Play (UPnP) for better experience.

Click **Advanced -> UPnP** to enter the UPnP screen. The UPnP feature is enabled by default.

Tenda					Version Product Name	V1.0.0.2 (7514) Wireless AC1200	
	Home	Status	Network	Wireless	Advanced	Security	Tools
Bandwidth Control DDNS Virtual Server DMZ Host	UPnP Enable U		ave Cancel			Helpful Hin UPnP (Universa Play) feature a network devici and connect to on the networl	al Plug and Ilows a e to discover o other devices
UPnP						is only suppor operational sy	
Routing Table						Windows XP and	
Static Routing						or later.	

4.6 Route Table

Click Advanced -> Route Table to view the router's route table.

Tenda				Q	Version Product Name	V1.0.0.2 (7514) Wireless AC1200	Dual Band Router
	Home	Status	Network	Wireless	Advanced	Security	Tools
Bandwidth Control	Route Table					Helpful Hin	ıts
DDNS						This section di	splays routing
Virtual Server	Destination Network	Subnet Mask	Gateway	metric	Interface	info.	
The art Server	192.168.0.0	255.255.255.0	0.0.0.0	0	LAN		
DMZ Host	192.168.2.0	255.255.255.0	0.0.0.0	0	LAN		
UPnP							
Routing Table							
Static Routing		R	efresh?				

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1. **Destination Network:** The IP address of the final destination. "0.0.0.0" indicates any network segment.

2. Subnet Mask: The subnet mask for the specified destination.

3. Gateway: This is the next router on the same LAN segment as the router to reach.

4. Metric: This stands for the number of routers between your network and the destination.

5. Interface: The interface between your router and the final destination.

4.5 Static Route

Static routes provide additional routing information to your router. Typically, you do not need to add static routes. However, when there are several routers in the network, you may want to set up static routing. Static routing determines the path of the data in your network. You can use this feature to allow users on different IP domains to access the Internet via this device. It is not recommended to use this setting unless you are familiar with static routing. In most cases, dynamic routing

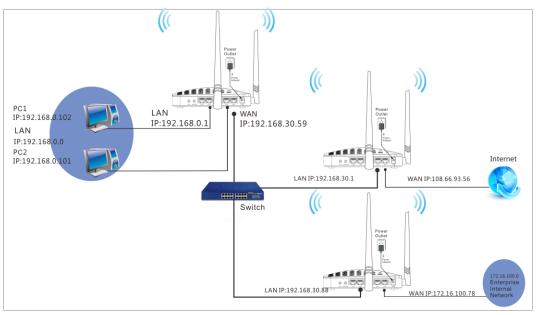
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is recommended, because this feature allows the router to detect the physical changes of the network layout automatically. If you want to use static routing, make sure the router's DHCP function is disabled. Click Advanced -> Static

Routing to enter the configuration screen.

?. Gateway must be on the same IP segment as WAN or LAN segment as the router.
2. Subnet Mask must be entered 255.255.255.255 if destination IP address is a single host.

Static Route Application Example - Gateway IP address on the same IP segment as WAN IP:



For example, your company internal network and Internet are on different IP net segment and you want PCs on your LAN to access Internet and your company internal network via the Tenda Router. You can simply configuring static routes on the Tenda Router. The figure above depicts this application scenario.

Configuration Procedures:



① Click Add Static Route.

Tenda								Version Product Name	V1.0.0.2 (7514) Wireless AC1200	Dual Band Router
		Home	Statu	is Netv	vork	Wirele	255	Advanced	Security	Tools
Bandwidth Control	Stat	ic Route							Helpful Hir	
Virtual Server	ID	Destination	Network	Subnet Mask	Gatew	/ay	Interfac	e Action	config static ro for your device	-
DMZ Host										
UPnP				Add Static	Route					
Routing Table										
Static Routing										

2 Destination Network: The IP address of the final destination. Enter your corporate internal network IP address: 172.16.100.0.

3 Subnet Mask: Enter the subnet mask of your corporate internal network: 255.255.255.0.

Gateway: Enter the gateway IP address to your corporate internal network: 192.168.30.88

- **5** Interface: Select WAN.
- 6 Click Save to save your settings.

Tenda				$\langle \mathbf{Q} \rangle$	Version Product Name	V1.0.0 2 (7514) Wireless AC1200	Dual Band Router
	Home	Status Net	twork W	ireless	Advanced	Security	Tools
Bandwidth Control	Add Static Route					Helpful Hin	its
DDNS	Destination Network	172.16.100.0				Use this section	
Virtual Server	Subnet Mask	255.255.255.0				config static ro for your device	
DMZ Host	Gateway	192,168,30,88					
UPnP	Guttinay			-			
Routing Table	Interface	WAN		•			
Static Routing		Save	Cancel				

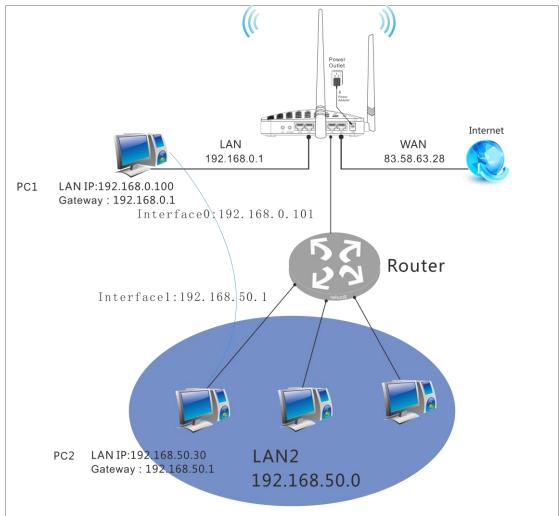
Click Advanced -> Routing Table to view your static route entry. If it does not display, go to Tools to reboot your router. Enter the router's management interface. When the router successfully connects to the Internet, the following screen will



display:

Tenda					Version Product Name	V1.0.0.2 (7514) Wireless AC1200	Dual Band Router
	Home	Status	Network	Wireless	Advanced	Security	Tools
Bandwidth Control	Route Table					Helpful Hin	
DDNS	Destination Network	Subnet Mask	Gateway	metric	Interface	This section dis	splays routing
Virtual Server	192.168.0.0	255.255.255.0	0.0.0.0	0	LAN		
DMZ Host	172.16.100.0	255.255.255.0	192.168.30.8	88 0	WAN		
UPnP							
Static Routing		-	Refresh				





As seen in the above figure, PC2 on LAN2 connects with the Tenda Router via the Router; PC1 on LAN1 accesses Internet via the Tenda Router that performs NAT.

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You can configure static routes to implement mutual communication between PCs

on LAN1 and LAN2.

Configuration Procedures:

① Click Add Static Route.

Tend a							Version Product Name	V1.0.0.2 (7514) Wireless AC1200	Dual Band Router
		Home	Stat	us Netv	work Wi	reless	Advanced	Security	Tools
Bandwidth Control	Sta	tic Route						Helpful Hin	ts
DDNS	ID	Destination N	letwork 4	Subnet Mask	Gateway	Interface	Action	Use this section config static roo	
Virtual Server	1	172.16.100.0		255.255.255.0			Delete	for your device	-
DMZ Host									
UPnP									
Routing Table				Add Static	Route				
Static Routing									

- **2** Destination Network: Enter 192.168.50.0.
- **3** Subnet Mask: Enter 255.255.255.0.
- **Gateway:** Enter 192.168.0.101
- **(5)** Click **Save** to save your settings.

Tenda					Version Product Name	V1.0.0.2 (7514) Wireless AC1200	
	Home	Status	Network	Wireless	Advanced	Security	Tools
Bandwidth Control	Add Static Route					Helpful Hir	its
DDNS	Destination Network	192.168.50	.0			Use this sectio	
Virtual Server	Subnet Mask	255.255.2	55.0			config static ro for your device	-
DMZ Host	Gateway	192.168.0.	101				
UPnP	Interface	LAN		•			
Routing Table	incinace	LAN					
Static Routing		Sav	re Cance	I			

Click Advanced -> Routing Table to view your static route entry. If it does not display, go to Tools to reboot your router. Enter the router's management interface. When the router successfully connects to the Internet, the following screen will

display:

Tenda				Q	Version Product Name	V1.0.0.2 (7514) Wireless AC1200	Dual Band Route
	Home	Status	Network	Wireless	Advanced	Security	Tools
Bandwidth Control	Route Table					Helpful Hir	its
DDNS						This section di	splays routing
Virtual Server	Destination Network	Subnet Mask	Gateway	metric	Interface	info.	
virtual server	192.168.0.0	255.255.255.0	0.0.0.0	0	LAN		
DMZ Host	172.16.100.0	255.255.255.0	192.168.30.8	8 0	WAN		
UPnP	192.168.50.0	255.255.255.0	192.168.0.10	01 0	LAN		
Routing Table Static Routing	_		Refresh	1			

5 Security

This router provides three security policies: MAC filter, client filter and URL filter.

• To restrict your LAN PCs to access Internet via the their MAC addresses, see <u>MAC Filter</u>.

• To restrict your LAN PCs to access certain services on Internet via their IP addresses, see <u>Client Filter</u>.

• To restrict your LAN PCs to access certain websites on Internet via URL, see <u>URL Filter</u>.

5.1 MAC Filter

This section allows you to restrict specific clients to access the Internet via the devices' MAC addresses. Each PC has at least an installed network adapter with an unique MAC address. Three options are available: Disable, Deny and Allow.

A. Disable: Disable the MAC Filter feature.

B. Deny: Disallow only the devices at specific MAC addresses to access Internet during the specific time period and/or specific days of the week. Access to Internet during other time period and/or other days of the week are not restricted.

C. Allow: Allow only the specified devices to access Internet during the specific time period

and/or specific days of the week. Access to Internet during other time period and/or other days of the week are denied.

Click Security -> MAC Filter to enter the configuration screen.

MAC Filter Application Example:

To allow only the PC at the MAC address of 00:C8:08:F5:E6:06 to access Internet from Friday to Sunday (18:30-22:30).

Tenda				10	Version Product Name	V1.0.0.2 (7514) Wireless AC1200) Dual Band Router
	Home	Status	Network	Wireless	Advanced	Security	Tools
	MAC Filter					Helpful Hii	nts
Client Filter	Filter Mode	Allow		•		To better man	-
URL Filter	Select	(1)		•		computers in network, you o	
Remote Web Management	Enable	Cle	ar this item: Clea			MAC Address to control thes access to Inter	e computers'
	Description					details, see Us	ser Guide.
	MAC Address	00 : C	8 : 08 : F5	: E6 : 06		To clear an ex rule, select it a	-
	Time	18 💌	30 💌 ~ 20	▼ : 30 ▼		"Clear", and th	
	Day	Every of	day 🔽 Sun 🗖 Mon 🛛	🗌 Tue 🗖 Wed 🔲 Th	ur 🔽 Fri 🔽 Sat	Deny/Allow:	
		S	ave Cance	I		Disallow/allow MACs to acces	
						Note: 00:00- all the time.	-00:00 means

Configuration Procedures:

(1) Filter Mode: Select Allow.

2 Select: Select a rule ID, for example, (1).

Enable: Check to enable this feature.

Description: Briefly describe the current rule. This field is optional.Or if you want to enter it, then enter numbers, letters or underscore only.

MAC Address: Specify the MAC address of the computer that you want to restrict, 00:C8:08:F5:E6:06.

(6) Time: Specify a time period for the current rule to take effect. Here in this example, select 18:30-22:30.**Day:** Select a day, or several days of the week for the current rule to take effect. Here in this example, select Friday, Saturday and

Tenda

Sunday.

⑦ Click **Save** to save your settings.

5.2 Client Filter

This section allows you to set the times specific clients can or cannot access the Internet via the devices' assigned IP addresses and service port. Three options are available: Disable, Deny and Allow.

A. Disable: Disable the Filter feature.

B. Deny: Disallow only the devices at specific IP addresses to access certain services on Internet during the specific time period and/or specific days of the week. Other time period and/or other days of the week are not restricted.

C. Allow: Allow only the devices at specific IP addresses to access specific services on Internet during the specific time period and/or specific days of the week. Access to any other services during other time period and/or other days of the week are denied.

Click **Security** -> **Client Filter** to enter the configuration screen.

Client Filter Application Example:

To prohibit PCs within the IP address range of 192.168.0.100--192.168.0.120 from accessing web pages during the time period of 8:00~18:00 from Monday to Frida

Tenda					Version Product Name	V1.0.0.2 (7514) Wireless AC1200	Dual Band Router
	Home	Status N	Network	Wireless	Advanced	Security	Tools
MAC Filter	Client Filter					Helpful Hir	its
Client Filter	Filter Mode	Deny		•		To better man	-
URL Filter	Select	(1)		•		computers in L use the Client I	Filter
Remote Web Management	Enable	Clear thi	s item: Clear			functionality to computers' acc Internet. For de	cess to
	Description					User Guide.	
	Start IP	192.168.0.100				To clear an ex rule, select it a	nd click the
	End IP	192.168.0.120				"Clear", and th button.	en the "Save"
	Port	80	~ 80			Deny/Allow:	
	Traffic Type	Both		•		Disallow/allow or IP range to a	
	Time	8 💌 : 0	▼ ~ 18 ▼	: 0 💌		Internet.	00:00 means
	Day	🗖 Every day 🗖	Sun 🔽 Mon 🔽 Tu	e 🔽 Wed 🔽 Th	hur 🗹 Fri 🗖 Sat	all the time.	oo.oo means
		Save	Cancel				

Configuration Procedures:

() Filter Mode: Select Deny.

2 Select: Select a rule ID, for example, (1).

Enable: Check to enable this feature.

Description: Briefly describe the current rule. This field is optional.Or if you want to enter it, then enter numbers, letters or underscore only, for example, 80.

5 Start IP: Enter a starting IP address. Here in this example, enter 192.168.0.100.**End IP:** Enter an ending IP address. Here in this example, enter 192.168.0.120.

6 Port: Enter a service port number. Here in this example, enter 80.

Traffic Type: Select **Both**.

Time: Specify a time period for the current rule to take effect. Here in this example, select 8:00~18:00.**Day:** Select a day, or several days of the week for the current rule to take effect. Here in this example, select Mon, Tue, Wed, Thur

and Fri.

(9) Click **Save** to save your settings.

5.3 URL Filter

To better control LAN PCs, you can use the URL filter functionality to allow or disallow such PCs to access certain websites within a specific time period and/or specific days of the week. Three options are available: Disable, Deny and Allow.

A. Disable: Disable the URL Filter feature.

B. Deny: Disallow only the devices at specific IP addresses to access certain services on Internet during the specific time period and/or specific days of the week. Other time period and/or other days of the week are not restricted.

C. Allow: Allow only the devices at specific IP addresses to access specific services on Internet during the specific time period and/or specific days of the week. Access to any other services during other time period and/or other days of the week are denied.

Click **Security** -> **URL Filter** to enter the configuration screen.

URL Filter Application Example:

If you want to disallow all computers on your LAN to access "yahoo.com" from

8:00 to 18:00 during working days: Monday- Friday, then do as follows:



Tenda					Version Product Name	V1.0.0.2 (7514) Wireless AC1200	
	Home	Status	Network	Wireless	Advanced	Security	Tools
MAC Filter	URL Filter					Helpful Hir	nts
Client Filter	Filter Mode	Deny		•		To better cont	rol the LAN cess to certain
URL Filter	Select	(1)		•		websites, you	can use the
Remote Web Management	Enable	Clea	ar this item: Cle	ar		URL filter featu deny their acc websites withi	ess to certain
	Description					time range. Fo user guide.	r details, see
	Start IP	192.168.0.	2			To clear an ex	isting filter
	End IP	192.168.0.	254			rule, select it a "Clear", and th	
	URL String	yahoo.com	I			button.	
	Time	8 💌 :	0 💌 ~ 18	• : 0 •		URL String: U of URL strings	can be
	Day	Every da	ay 🗖 Sun 🔽 Mon 🔽	Tue 🔽 Wed 🔽 Th	nur 🔽 Fri 🔲 Sat	entered.Differ names should	be separated
		Sav	/e Cancel			by a coma.Ent URL string field wild card of ar	
						Note: 00:00~ all the time.	-00:00 means

1 Filter Mode: Select Deny.

2 Enable: Check to enable this feature.

3 Select: Select a rule ID, for example, (1).

(4) **Description:** Briefly describe the current rule, say, yahoo, (It can only consist of numbers, letters, or underscore). This field is optional.

5 Start IP/End IP: Enter 2-254.

6 URL String: Enter yahoo.

Time: Specify a time period for the current rule to take effect. Here in this example, select 8:00~18:00.**Day:** Select a day, or several days of the week for the current rule to take effect. Here in this example, select Mon, Tue, Wed, Thur and Fri.

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

▲_{Note}

Each entry can include up to 16 URL keywords, each of which must be separated by ", ".

5.4 Remote Web Management

The Remote management allows the device to be configured and managed remotely

from the Internet via a web browser.

Click Security -> Remote Web Management to enter the configuration screen.

🦞 Tip -----

1 For better security, customize a port number between 1024-65535 for the remote web management interface, do not use the number of any common service port (1-1024).

2. Make sure your WAN IP address (Internet IP address) is a public IP address. Private IP addresses are not routed on the Internet.

3. It is unsafe to make your router remotely accessible to all PCs on external network. For better security, we suggest that only enter the IP address of the PC for remote management.

Remote Web Management Application Example:

To access your router (WAN IP address: 102.33.66.88) at your home from the PC

Tenda					Version Product Name	V1.0.0.2 (7514) Wireless AC1200	
	Home	Status	Network	Wireless	Advanced	Security	Tools
MAC Filter Client Filter URL Filter	Remote Web Mana Enabl		(1024-65	535)		Helpful Hir Use this featur Internet users router using a	e to let manage your
Remote Web Management	IP Addres		3.33 ve Cance	I		Port: Specify a which a specifi accesses the m utility remotely Internet.	ed user outer's web
						IP Address: address for m router remotel	anaging the

(218.88.93.33) at your office via the port number 8080

Configuration Procedures:

- ① Check "Enable".
- 2 Enter 8080.
- **3** Enter 218.88.93.33.
- **④** Click **Save** to save your settings.

Type http://102.33.66.88:8080 into your browser's address or location field and

you can access the router at your home remotely.

6 Tools

6.1 Logs

Click **Tools -> Logs** to enter the logs screen. The Logs option allows you to view all events that occur upon system startup. **View Log Levels:** There are three types of logs available.

Logs Logs Traffic Statistics Here you	Home Si	tatus N	etwork Wireless A	dvanced Security Tools
Traffic Statistics Here you	u can view the histo			
incre you	u can view the histo			Helpful Hints
Time		ry of the device's	actions.	This section allows you to
	View Log Levels	All	•	view all events that occur upon system startup. The
Change Password			_	device records a maximum
Index	Time	Туре	Log Contents	of 200 log entries.
Backup 12	2013-08-19 14:5	55:06 system	Sync time success!	Note: Logs will be cleared
Restore 11	2013-08-19 14:2	24:57 system	Sync time success!	automatically when reaching the limit of 200 entries (14
Firmware Update 10	2000-01-01 00:0	00:28 system	wan up	pages).
9 Restore to Factory Default	2000-01-01 00:0	00:25 wan	Get Client IP Address (192.168.10	.1
8	2000-01-01 00:0	00:25 system	broadcasting ARPOP_REQUEST ,ret	urn
Reboot 7	2000-01-01 00:0	00:20 system	broadcasting ARPOP_REQUEST for	192
6	2000-01-01 00:0	00:20 wan	Dhcp_ack received from (192.168	.10
5	2000-01-01 00:0	00:20 wan	Broadcasting Dhcp_request for (19	2
4	2000-01-01 00:0	00:20 wan	Dhcp_offer Received from (192.16	8
3	2000-01-01 00:0	00:07 wan	Broadcasting Dhcp_discover	
2	2000-01-01 00:0	00:02 system	wifi up	
1	2000-01-01 00:0	00:01 system	System start success	

Here you can view the history of the device's actions.

Up to 150 entries can be logged. After 150 entries, you can click **Refresh** to update the logs or click **Clear** to clear the earliest logs.

6.2 Traffic Statistics

Click **Tools** -> **Traffic Statistics** to enter the Traffic Statistics screen. Traffic Statistics meter allows you to monitor and view the volume of traffic used by LAN devices.

🦉 _{Tip} -----

If you suspect some PCs behind your router are consuming a large volume of bandwidth (downloading videos, etc) you can enable this Traffic Statistics meter feature to find out which PCs are overusing the traffic. Enabling the Traffic Statistics feature may degrade the router's performance. Do not enable it unless necessary.

Configuration Procedures:

1 Check Enable Traffic Statistics.

Tenda							Version Product Name	V1.0.0.2 (7514) Wireless AC1200	Dual Band Router
		Home	Status	Network	W	ireless	Advanced	Security	Tools
Logs	Tra	ffic Statistic	5					Helpful Hin	ts
Traffic Statistics	Ena	ble Traffic Statis	stics 💌					Statistics displa	
Time	Rate	Unit: KB/s		Display ii	Order			usage by PCs o	on your LAN.
Change Password	Re	rfresh CI	ear	Display	in descei	nding order o	f do 🔻		
Backup				Diopidy		iang oraor o			
Restore	ID	IP Address	TX Bytes	RX Bytes		Downlink Rate	Connections		
Firmware Update					Rate	Kate			
Restore to Factory Default									
Reboot			Save	Can	cel				



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

Tenda							Version Product Name	V1.0.0.2 (7514) Wireless AC1200	
		Home	Status	Network	W	/ireless	Advanced	Security	Tools
Logs	Traf	ffic Statistics						Helpful Hir	its
	Enal	ble Traffic Statisti	cs 🔽					Statistics displa	
Time	Rate	Unit: KB/s		Display i	n Order			usage by PCs (on your LAN.
Change Password	Re	rfresh Clea	ar	Display	in desce	nding order o	if doy 💌		
Backup				Diopid	11 00000	inding order o			
Restore	ID	IP Address	TX Bytes	RX Bytes	1.1		Connections		
Firmware Update					Rate	Rate			
Restore to Factory Default									
Reboot			Save	e Car	ncel				

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

Tenda				Version V4 0.0.2 (751.4) Product Name, Wireless AC1200 Dual Band Router			
	Home	Status	Network	Wireless	Advanced	Security	Tools
	Hints						
Logs Traffic Statistics	To activate new set	Helpful Hints Statistics displays traffic					
Time Change Password		Cor	ntinue Ret	oot		usage by PCs	on your LAN.

The following screen appears after reboot.

Tenda	Version V4.010.2 (7514) Product Name, Wireless AC1200 Duvi Band Ron									
	Home	e S	tatus	Network	W	/ireless	Advanced	Security	Tools	
Logs	Traffic Sta	tistics						Helpful Hin	ts	
	Enable Traffic Statistics							Statistics displays traffic usage by PCs on your LAN.		
Time	Rate Unit: KB/s Display in Order							usage by PCs o	n your lan.	
Change Password	Refresh	Clear		Display	in desce	nding order o	f do 🔻			
Backup		0.000		Display	in desce	nung order e				
Restore	ID IP Add	ress	TX Bytes	RX Bytes	Uplink Rate	Downlink Rate	Connections			
Firmware Update	1 192.16	8.0.100	ом	ом	0.00	0.00	4294967295			
Restore to Factory Default										
Reboot										
			Save	e Car	icel					

Knowledge Center -----

1. **IP Address:** Displays the IP addresses of the PCs that have connected to the device.

2. Uplink Rate: Displays the upload speed (KByte/s) of a corresponding PC.

3. Downlink Rate: Displays the download speed (KByte/s) of a corresponding PC.

4. **TX Bytes:** The number of bytes transmitted by a corresponding PC upon traffic statistics meter startup. The unit is M.

5. **RX Bytes:** The number of bytes received by a corresponding PC upon traffic statistics meter startup. The unit is M.

6. Connections: The number of clients that connect to this router.

6.3 Time

Click **Tools -> Time** to enter the time screen.

A. Sync with Internet time servers

Note that the GMT time is obtained only when Device is connected to Internet. You

can also configure the system time manually.

Tenda	Version V4(0,0)2 (7514) Product Name Wireless AC1200 Dual Band Rom
	Home Status Network Wireless Advanced Security Tools
Logs	Time Helpful Hints
Traffic Statistics	This section assists you in setting the device current time; you can either select to set the This section assists you in
Time	time and date manually or update it from Internet automatically. setting the device's current time; you can either select to
Change Password	Sync with Internet time servers set the time and date manually or update it from
Backup	Sync Interval 30 minutes Internet automatically.
Restore	Note: GMT time will be updated automatically only when the device is connected to Internet In
Firmware Update	Time Zone when the device is powered off. However, it will be
Restore to Factory Default	(GMT+08:00)Beijing, Chongquing, Hong Kong, Urumqi updated automatically when
Reboot	Set Time and Date Manually Internet. To activate time-
	2013 Year 08 Month 19 Day 15 Hour 05 Minute 09 Second Second firewall), the time and date Sync with Your PC
	automatically.

Configuration Procedures:



- 1 Select your time zone.
- 2 Click **Save** to save your settings.

B. Set Time and Date Manually/Sync with Your PC

Tenda					Version VI 0.0.2 (7514) Product Name Wireless ACT 200 Dual Band I					
	Home	Status	Network	Wireless	Advanced	Security	Tools			
Logs	Time					Helpful Hir	nts			
Traffic Statistics	This section assists y	-			lect to set the	This section as				
	time and date manua					setting the dev time; you can	vice's current either select to			
Change Password Backup	Sync Inte	Sync with Internet time servers Sync Interval 30 minutes								
Restore	Note: GMT time will I Internet	oe updated autor	matically only when	the device is conn	ected to	Note: The co and date infor	-			
Firmware Update	Time Zone					when the devi off. However.				
Restore to Factory Default	(GMT+08:00)Beijing	, Chongquing, Ho	ng Kong, Urumqi		•	updated autor	matically when			
Reboot	Set Time and Date M					Internet. To ac based feature	tivate time-			
	2013 Year 0	8 Month 19	Day 15 Hour 0		econd	firewall), the ti info shall be s				
		S	ave Cance		with Your PC	first, either ma automatically.	anually or			

Configuration Procedures:

1 Specify the time and date manually or click the **Sync with Your PC** to

automatically copy your PC's time to the device.

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

6.4 Change Password

Click **Tools** -> **Change Password** to enter the configuration screen. Here you can change the login password. It is strongly recommended that you change the factory default login password. Otherwise, anyone in your network can access this utility to change your settings.

For example, if you want to change the login password to "tenda", do as follows: **Configuration Procedures:**

(1) New Password: Input a new password. Here in this example, enter "tenda".

2 Confirm New Password: Re-enter the new password for confirmation.

Here in this example, enter "tenda".

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

Tenda				Version V4.0.0.2 (751%) Product Name Wireless ACT 200 Dual Band Route				
	Home	Status	Network	Wireless	Advanced	Security	Tools	
Logs Traffic Statistics Time Change Password Backup Restore Firmware Update Restore to Factory Default Reboot	Change Passwor Note: NO password allows a n Old Passw New Passw Confirm New Passw	by default, We rec naximum of 32 ch vord	aracters in length a	-	security. The	Helpful Hin NO password recommend yo for better secu Otherwise: any network can ad utility to chang settings. Old Passwor time use the ro blank. If you al changed it and forgot, restore factory default New Password consist of 3-3; without any sp Confirm New	ay default, We u to change it rity. one in your ccess this a your d: If you first uter, leave it ready unfortunately the router to 5. d: Input a It MUST only 2 characters ace. Password:	

(4) Click **OK** on the appearing window.

(5) System will automatically enter the login window if you click **OK**. Enter the new login password of "tenda" and click **Login** to enter the device's configuration interface.

Tend a				Version Product Name	V3(0.072 (7514) Wireless AC1200 Dual Band Router
	Wireless AC12	00 Dual Band Rou	iter		
	Password	•••••			
		Login Cancel			

6.5 Backup

Backup: Once you have configured the device the way you want it, you can save these settings to a configuration file on your local hard drive that can later be imported to your device in case that the device is restored to factory default settings. Click **Tools -> Backup** to enter the configuration screen.

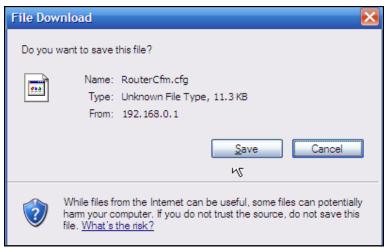
suffix of ".cfg" when renaming the file name to avoid problems.

Configuration Procedures:

1 Click Backup.

Tenda						V1 0.0.2 (7514) Wireless AC1200 Dual Band Router				
	Home	Status	Network	Wireless	Advanced	Security	Tools			
Logs	Backup					Helpful Hin	ts			
Traffic Statistics	Once you have config			Click "Backup" to save current settings to your local						
Time	-	configuration file on your local hard drive that can later be imported to your device in case that the device is restored to factory default settings.								
Change Password			Backup							
Backup										
Restore										
Firmware Update										
Restore to Factory Default										
Reboot										

- 2 Click **OK** on the appearing window.
- ③ Click Save on the File Download window.





④ Select a local hard drive to save the file and click **Save**.

Choose file						? 🔀
Look in:	My Documents	3	•	G 🦻	ج 📰	
My Recent Documents Desktop	RouterCfm.cfg					
My Documents						
My Computer						
My Network Places	File <u>n</u> ame:	RouterCfm.cfg			-	<u>O</u> pen
	Files of type:	All Files (*.*)			-	Cancel

6.6 Restore

Click **Tools -> Restore** to enter the configuration screen.

Configuration Procedures:

1 Click **Browse**.

Tenda	Version V1.0.0.2.(75.14) Product Name Wireless AC1200							
	Home	Status	Network	Wireless	Advanced	Security	Tools	
Logs	Restore					Helpful Hin	ıts	
Traffic Statistics	Use the Restore feat	ure to restore set	tings saved previou	sly to your local ha	rd drive.	Click the "Brow		
Time	Load Configuration		locate and select a configuration file that is					
Change Password			Restore			saved previous local hard drive		
Backup						click the "Resto		
Restore						reset your rout settings.	er to previous	
Firmware Update								
Restore to Factory Default								
Reboot								

2 Select the configuration file that is saved previously to your local hard drive and click **Open**.



Choose file						? 🔀
Look in:	My Documents)	-	G 🦻 🛛	⇒ خ	
My Recent	RouterCfm.cfg					
Documents Desktop						
My Documents						
My Computer						
My Network	Ele como:	RouterCfm.cfg		Γ	-	Open .
Places	File <u>n</u> ame: Files of <u>t</u> ype:	All Files (*.*)				Cancel

③ Click the **Restore** button to reset your device to previous settings.

6.7 Firmware Update

Click **Tools** -> **Firmware Update** to enter the configuration screen. Firmware upgrade is released periodically to improve the functionality of your device and also to add new features. If you run into a problem with a specific feature of the device, log on to our website (www.tendacn.com) to download the latest firmware to update your device. When upgrade is complete, the device restarts automatically. Update takes a few minutes. Please wait. If you run into a problem with a specific feature of the device, log on to our website (www.tendacn.com) to download the latest firmware to update your device.

▲_{Note}

1 Before you upgrade the firmware, make sure you are having a correct firmware. A wrong firmware may damage the device.

2. Do NOT upgrade the firmware wirelessly or disconnect device from power supply while firmware update is in process. Note that you need to update the device's firmware via a wired connection.

Configuration Procedures:

(1) Click **Browse**.

Tenda	Version V4 0.0 2 (751.4) Product Name Wireless AC (200 Dual Band Router								
	Home	Status	Network	Wireless	Advanced	Security	Tools		
Logs	Firmware Upgrade					Helpful Hin	ts		
Traffic Statistics	Step1:	Download	the latest firmware	from www.tendac	n.com	Use this section your router's fir			
Time	Step2:	Step2: Click Browse to locate and select the downloaded firmware.							
Change Password	Step3:	Click Upgra	ade to upgrade yo	ur firmware.		features. The device will reboot automatically when			
Backup	Select a firmware file		Brow	vse		updating is con	nplete.		
Restore	Firmware Version	V1.0.0.2	(7514)			Note : Do not p router or disco			
Firmware Update	Firmware Date	Aug 17 20	013			Ethernet cable upgrading, oth			
Restore to Factory Default Reboot			Upgrade			be permanently Upgrading take minutes. When complete, the o reboot automat	is about 2 it is device will		

2 Select the upgrade file and click **Open**.

③ Click **Upgrade** (or **Update**).

Tend a					Version Product Name	V1.0.0.2 (7514) Wireless AC1200	Dual Band Rou
	Home	Status	Network	Wireless	Advanced	Security	Tools
Logs	Firmware Upgrade					Helpful Hin	ts
Traffic Statistics	Step 1 :	Download	the latest firmware	from www.tendac	n.com	Use this section	
Time	Step2:	your router's firmware for better functionality or new					
Change Password	Step3:	Click Upgr	ade to upgrade yo	ur firmware.		features. The d reboot automat	
Backup	Select a firmware file	D:\US_fh1	200V1BR V1. Bro	wse		updating is con	nplete.
Restore	Firmware Version	V1.0.0.2	(7514)			Note: Do not p router or disco	
	Firmware Date	Aug 17 2	013			Ethernet cable	
Restore to Factory Default						be permanently	
Reboot			Upgrade			Upgrading take minutes. When complete, the o reboot automat	it is device will

④ Click **OK** on the appearing window.

(5) An upgrade progress indicator bar appears during the upgrade process. When upgrade is complete, the device restarts automatically.

Tenda				D XO		V1.0.0.2 (7514) Wireless AC1200	Dual Band Router
	Home	Status	Network	Wireless	Advanced	Security	Tools
	Upgrade						
Logs Traffic Statistics Time	opyrade					Helpful Hin Use this sectior your router's fil	n to update rmware for
Change Password Backup					_	better functions features. The c reboot automa updating is cor	device will tically when
Restore		_				Note: Do not prouter or disco	
Firmware Update Restore to Factory Default		Updating D	O NOT disconnect	power supply.5%		Ethernet cable upgrading, oth be permanentl	erwise it may y damaged.
Reboot		F	Rebooting Please	wait!		Upgrading take minutes. When complete, the o reboot automa	it is device will

6.8. Restore to Factory Default Settings

Click **Tools -> Restore to Factory Default** to enter the configuration screen. Here you can reset the device to factory default settings.

1. If you enable this option, all current settings will be deleted and be restored to factory default values. You will have to reconfigure Internet connection settings and wireless settings.

2. Do not restore factory default settings unless the following happens:

• You need to join a different network or unfortunately forget the login password.

• You cannot access Internet and Tenda technical staff asks you to reset the router.

Tenda	Version V4.0.0.2 (75.74) Product Name, Wireless AC1200 Dual Band Router								
	Home	Status	Network	Wireless	Advanced	Security	Tools		
Logs	Restore Factor	y Default				Helpful Hin	its		
Traffic Statistics	To restore factory d	To restore factory defaults, click the Restore Factory Default button.							
Time									
Change Password		Res	tore Factory Defa	ult		factory default	values.		
Backup						There is no p default pass			
Restore						Default IP Ac			
Firmware Update						192.168.0.1	luress.		
						Default Subn 255.255.255.			
Reboot									

Click the **Restore Factory Default** button to reset the device to factory default settings.

- Default IP Address: 192.168.0.1
- Default Subnet Mask: 255.255.255.0

6.9 Reboot

Click **Tools -> Reboot** to enter the configuration screen. This section allows you to reboot the device.

1 Click **Reboot**.

Tenda					V1.0.0.2 (7514) Wireless AC1200	Dual Band Router
	Home Status	Network	Wireless	Advanced	Security	Tools
Logs	Reboot				Helpful Hin	ıts
Traffic Statistics Time	Click Reboot to restart your device.				Rebooting the activates new s connections wil	ettings, and
Change Password		Reboot			disconnected a during the prop	
Backup						
Restore						
Firmware Update						
Restore to Factory Default						
Reboot						



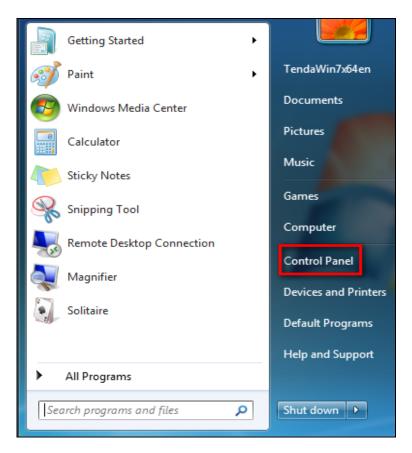
- ② Click **OK** on the appearing screen below:
- ③ The router restarts automatically if the **OK** button is clicked.

Tenda								
		Home	Status	Network	Wireless	Advanced	Security	Tools
Logs Traffic Statistics Time Change Password Backup Restore Firmware Update Restore to Factory Default Reboot	Rebo Click F		art your device.	Reboot	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		Helpful Hin Rebooting the activates new s connections wi disconnected a during the pro	device settings, and II be automatically

Appendix 1 Configure PC TCP/IP Settings

Windows 7

() Click **Start -> Control Panel**.

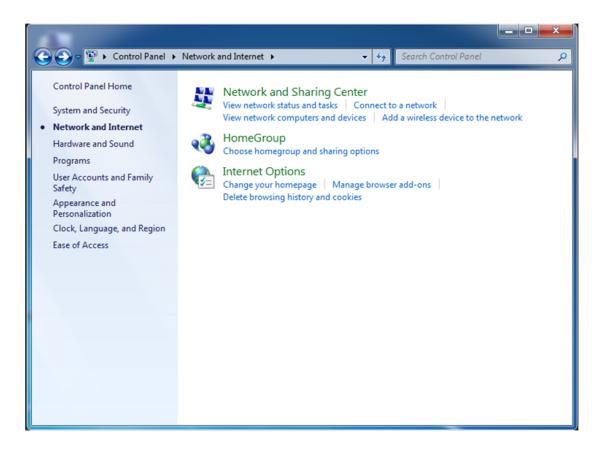




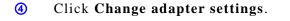
2 Click Network and Internet.

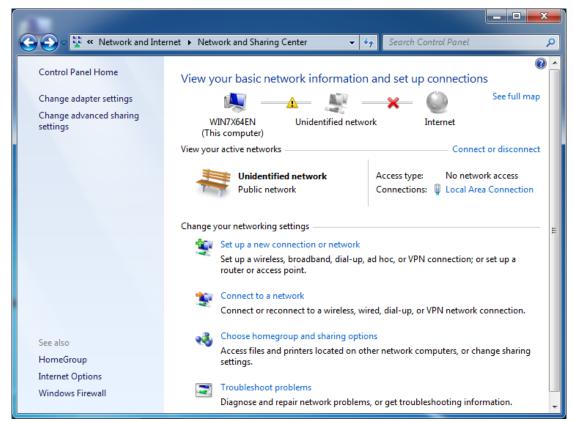


3 Click Network and Sharing Center.

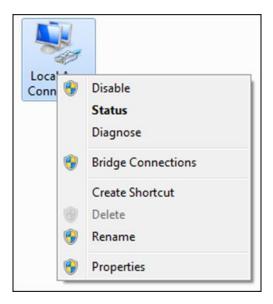








Click Local Area Connection and select Properties.



6 Select Internet Protocol Version 4 (TCP/IPv4) and click Properties.

Intel(R) PRO/1	000 MT Network Conne	ction
his connection uses	the following items:	Configure
Client for Mic		
	ter Sharing for Microsoft	Networks
File and Prin	ter Sharing for Microsoft ocol Version 6 (TCP/IPv	(6)
File and Prin Anternet Prot Anternet Prot Anternet Prot Anternet Prot Anternet Prot Anternet Prot	ter Sharing for Microsoft ocol Version 6 (TCP/IPv ocol Version 4 (TCP/IPv opology Discovery Map	6) 4) per I/O Driver
File and Prin Anternet Prot Anternet Prot Anternet Prot Anternet Prot Anternet Prot Anternet Prot	ter Sharing for Microsoft ocol Version 6 (TCP/IPv ocol Version 4 (TCP/IPv	6) 4) per I/O Driver
File and Prin Anternet Prot Anternet Prot Anternet Prot Anternet Prot Anternet Prot Anternet Prot	ter Sharing for Microsoft ocol Version 6 (TCP/IPv ocol Version 4 (TCP/IPv opology Discovery Map	6) 4) per I/O Driver
✓ ➡ File and Print ✓ ▲ Internet Prot ✓ ▲ Internet Prot ✓ ▲ Link-Layer T ✓ ▲ Link-Layer T ✓ ▲ Link-Layer T ✓ ▲ Link-Layer T	ter Sharing for Microsoft ocol Version 6 (TCP/IPv ocol Version 4 (TCP/IPv opology Discovery Mapp opology Discovery Resp	6) 4) ber I/O Driver bonder Properties



⑦ Select Obtain an IP address automatically and click OK.

Internet Protocol Version 4 (TCP/IPv4	4) Proper	ties		? X
General Alternate Configuration				
You can get IP settings assigned autor supports this capability. Otherwise, yo administrator for the appropriate IP se	u need to			ork
Obtain an IP address automatica	lly			
Ouse the following IP address:				
IP address:				
Subnet mask:				
Default gateway:				
Obtain DNS server address autor	matically			
Use the following DNS server add	dresses			
Preferred DNS server:				
Alternate DNS server :				
Validate settings upon exit			Adva	anced
		ОК		Cancel



(8) Click **OK** on the **Local Area Connection Properties** window to save your settings.

onnect using:		
Intel(R) PRO/1	000 MT Network Conne	ction
nis connection uses	the following items:	Configure
Client for Mic		
QoS Packet		
		and the second second second
File and Print	er Sharing for Microsoft	Networks
 Internet Prote 	ocol Version 6 (TCP/IPv	(6)
 Internet Proto Internet Proto 	ocol Version 6 (TCP/IPv ocol Version 4 (TCP/IPv	6) (4)
 Internet Proto Internet Proto Internet Proto Internet Proto Internet Proto 	ocol Version 6 (TCP/IPv ocol Version 4 (TCP/IPv opology Discovery Mapp	6) 4) per I/O Driver
 Internet Proto Internet Proto Internet Proto Internet Proto Internet Proto 	ocol Version 6 (TCP/IPv ocol Version 4 (TCP/IPv	6) 4) per I/O Driver
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 ✓ Internet Proto ✓ Internet Proto ✓ Link-Layer To ✓ Link-Layer To 	ocol Version 6 (TCP/IPv ocol Version 4 (TCP/IPv opology Discovery Mapp opology Discovery Resp	6) (4) ber I/O Driver bonder



Windows XP



1 Right-click **My Network Places** and select **Properties**.

2 Right click Local Area Connection and select Properties.



③ Select Internet Protocol Version 4 (TCP/IPv4) and click Properties.

Connect using:		
Marvell Yukor	n 88E8057 PCI-E Giga	abi Configure
his connection use	s the following items:	
Client for M		1020264155 4180
	nter Sharing for Micro	soft Networks
QoS Packe		
M 🐨 Internet Pro		
Install	Uninstall	Properties
Description		
wide area networ	trol Protocol/Internet I k protocol that provide erconnected network:	es communication
Show icon in not	ification area when co	innected
		ited or no connectivity

④ Select **Obtain an IP address automatically** and click **OK**.

ieneral	Alternate Configurat	ion
this cap		ned automatically if your network supports u need to ask your network administrator for
⊙ OŁ	otain an IP address au	utomatically
OUs	e the following IP ad	dress:
IP ad	ldress:	
Subr	iet mask:	
Defa	ult gateway:	
⊙ Ob	otain DNS server add	ress automatically
OUs	e the following DNS	server addresses:
Prefe	rred DNS server:	
Alten	nate DNS server.	
		Advanced

6 Click **OK** on the **Local Area Connection Properties** window to save your settings.

Conne	Advance	u l			
	Marvell Yuk	on 88E1	3057 PCI-8	Gigabi	Configure
This c	onnection u	ses the l	following it	ems:	
	File and f QoS Pac	ket Sch	eduler (TCP/IP)		
Des	Install		Uninst	all L	Properties
T ra wio		ork prote	col that p	rovides cor	col. The default nmunication
10000	iow icon in n biliy me wher				ted ir no connectivity



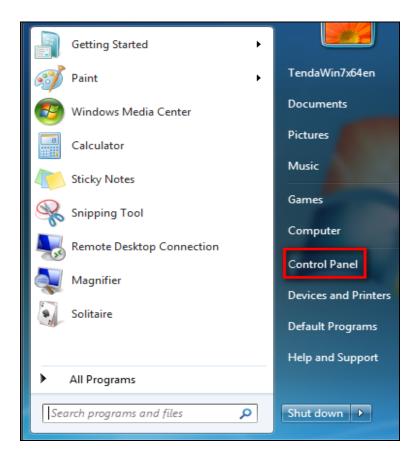
Appendix 2 Join Your Wireless Network

Ý_{Tip} -----

To join your wireless network, the PC you use must have an installed wireless network adapter. If not, install one.

Join Your Wireless Network - Windows 7

1 Click Start -> Control Panel.

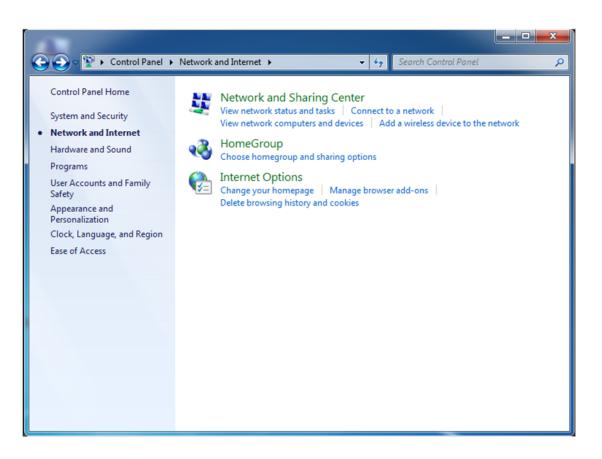




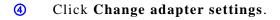
2 Click Network and Internet.

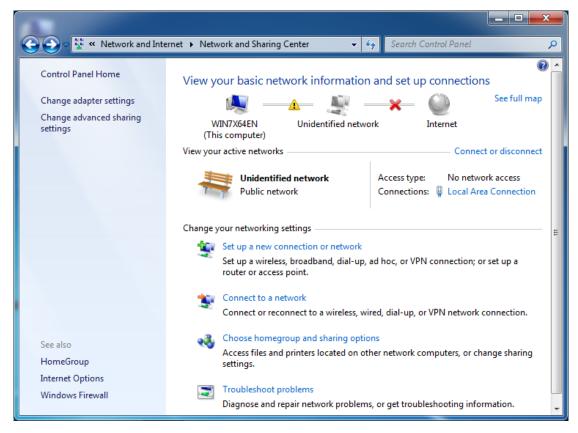


3 Click Network and Sharing Center.

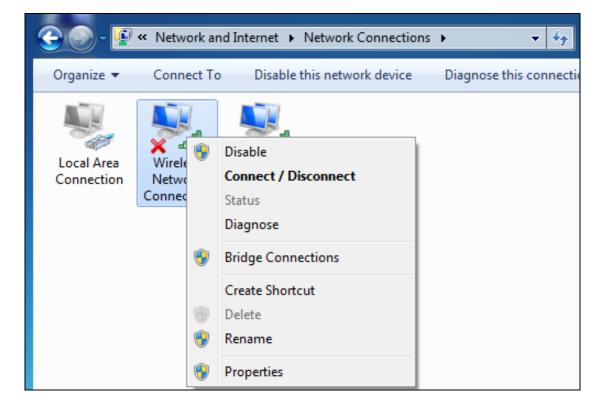








(5) Right click the Wireless Network Connection and select Connect/Disconnect.





6 Select the wireless network you wish to connect and click **Connect**. Depending

on whether you are joining a secured or unsecured wireless network, you will see different screens:

A. If you are joining an unsecured wireless network as seen below:



B. If you are joining a secured wireless network as seen below:

Currently connected to:	* III
Wireless Network Connection	
Tenda_OFF02D	
Connect automatically	
Tenda_5	
Default_5G	
Default_2.4G	
123	
Tenda_020070	
WAYOS 🚮	-
Open Network and Sharing Center	



You are required to enter a security on the following screen. Enter the security key and click **OK**.

Connect to a Net	Connect to a Network					
Type the netwo	ork security key					
<u>S</u> ecurity key:	•••••					
	✓ <u>H</u> ide characters					
		OK Cancel				

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



Appendix 3	Factory	Default	Settings
-------------------	---------	---------	----------

Item		Default Settings	
Router Login	Login IP Address	192.168.0.1	
	Internet Connection Type	DHCP	
	MAC Address	Find it on the label attached to the	
		bottom of your device.	
Network Settings		PPPoE: 1450	
	MTU	Dynamic IP: 1450	
		Static IP: 1450	
	WAN Speed	Auto-negotiation	
	DNS	Disabled	
	IP Address	192.168.0.1	
	Subnet Mask	255.255.255.0	
	DHCP Server	Enabled	
LAN Sattings	IP Pool	192.168.0.100~192.168.0.200	
LAN Settings	T:	(GMT+08:00)Beijing, Chongquing,	
	Time Zone	Hong Kong, Urumq	
	Set Time and Date manually	Disabled	
	Wireless	Enabled	
	Primary SSID (Network Name)	Tenda_XXXXXX (XXXXXX is the last six characters in the	
		device's MAC address)	
	Wireless Extender	Disabled	
	Network Mode	11b/g/n mixed	
	SSID Broadcast	Enabled	
Wireless Settings	AP Isolation	Disabled	
	Channel	Auto	
	Channel Bandwidth	20/40	
	Extension Channel	Auto	
	WMM Capable	Enabled	
	APSD Capable	Disabled	
	Security Mode	None	
	WPS	Disabled	
Tools	Remote Web Management	Disabled	
	Login Password	None	
	Bandwidth Control	Disabled	
Others	Traffic Statistics	Disabled	
	DMZ Host	Disabled	



UPnP	Enabled
Security	Disabled

Appendix 4 FAQs

This section provides solutions to problems that may occur during installation and

operation of the device. Read the following if you are running into problems. If your problem is not covered here, please feel free to go to <u>www.tendacn.com</u> to find a solution or email your problems to: <u>support@tenda.com.cn</u> or support02@tenda.com.cn. We will be more than happy to help you out as soon as possible.

1. Q: I cannot access the device's management interface. What should I do?

• Make sure the power LED on the device's front panel is on and the SYS LED blinks normally.

• Make sure all cables are correctly connected and the corresponding LAN LED on the device is on.

• Verify that your PC's TCP/IP settings are configured correctly. If you select the "Use the following IP address" option, set your PC's IP address to any IP address between 192.168.0.2~192.168.0.254. Or you can select the "Obtain an IP address automatically" option.

• Check the IP address you entered in your browser. It should be http://192.168.0.1.

Open your browser and click Tools -> Internet Options -> Connections
 -> LAN settings, uncheck the Use a proxy server for your LAN option.

• Press the WPS/RST button for over 7 seconds to restore your device to factory default settings. Then log to your device again.

2. Q: I changed the login password and unfortunately forget it. What should I do?

Press the WPS/RST button for over 7 seconds to restore your device to factory default settings.

3. Q: My computer shows an IP address conflict error after having connected to the device. What should I do?

• Make sure there are no other DHCP servers on your LAN or other DHCP servers are disabled.

- Make sure the device's LAN IP is not used by other devices on your LAN. The device's default LAN IP address is 192.168.0.1.
- Make sure the statically assigned IP addresses to the PCs on LAN are not used by others PCs.

4. Q: I have problems connecting to Internet/Secure websites do not open or displays only part of a web page. What should I do?

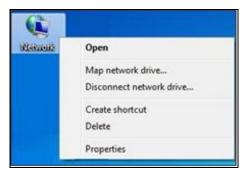
This problem mainly happens to users who use the PPPoE or Dynamic IP Internet connection type. You need to change the MTU size. Try changing the MTU to 1450 or 1400. If this does not help, gradually reduce the MTU from the maximum value until the problem disappears.

Appendix 5 Remove Wireless Network from Your PC

If you change wireless settings on your wireless device, you must remove them accordingly from your PC; otherwise, you may not be able to wirelessly connect to this device. Below describes how to do remove a wireless network from your PC.

Windows 7

() Right-click the **Network** icon and select **Properties**.



2 Select Manage Wireless Networks.

• + ₇ s	earch Control Panel	
o connec		
	tions	
×	= O Internet	See full map
cess type:	Connect	t or disconnect
nnections:	Wireless Network ((Tenda_home)	Connection 8
		(Tenda_home)



3 Select the wireless network and click **Remove network**.

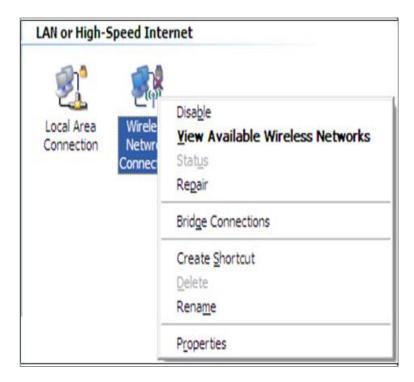
d Adapter properti	ies Profile types Network and Sha modify, and reorder (2)	ring Center	
Tenda_home	Security: WPA-Persona	I Type: Any supported	Automatically connect
Tenda_AAAAB/	A Security: WPA-Persona	I Type: Any supported	Automatically connect

Windows XP

(1) Right-click My Network Places and select Properties.



(2) Right click **Wireless Network Connection** and then select **Properties**.



3 Click Wireless Networks, select the wireless network name under

Preferred networks and then click the Remove button.

📥 Local Area Connection 2 Properties 🛛 🕐	\mathbf{X}
General Wireless Networks Advanced	
✓ Use Windows to configure my wireless network settings	
Available <u>n</u> etworks:	
To connect to, disconnect from, or find out more information about wireless networks in range, click the button below.	
View Wireless Networks	
Preferred networks: Automatically connect to available networks in the order listed below:	
Tenda_home (Automatic) Move up	
Move <u>d</u> own	
<u>A</u> dd <u>R</u> emove Properties Leam about <u>setting up wireless network</u> Ad <u>v</u> anced	
OK Cancel	

Appendix 6 Safety and Emission Statement

CE Mark Warning

Operations in the 5.15-5.25GHz band are restricted to indoor usage only. This is a Class B product in a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures NOTE:(1)The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment.(2) To avoid unnecessary radiation interference, it is recommended to use a shielded RJ45 cable



FCC Statement

Operations in the 5.15-5.25GHz band are restricted to indoor usage only.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.

Tenda

- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

NOTE: (1) The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. (2) To avoid unnecessary radiation interference, it is recommended to use a shielded RJ45 cable

NCC Notice

經型式認證合格之低功率射頻電機,非經許可,公司、商號或使用者均不得擅自變更頻率、 加大功率或變更設計之特性及功能。

低功率射頻電機之作用不得影響飛航安全及幹擾合法通信;經發現有幹擾現象時,應立即 停用,並改善至無幹擾時方得繼續使用。前項合法通信,指依電信規定作業之無線電信。 低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之幹擾。 5.25~5.35GHz 限室内使用 (802.11a used)

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