

User Guide



Wireless Range Extender

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Preface

Thank you for purchasing Tenda wireless range extender. Before configuring it, please read this user guide carefully.

Conventions

 Δ Note: Information you need to pay attention to.

 $ilde{rak V}$ Tip: Additional information to help you save time or resources.

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Contents

Chapter 1 Product Overview	1
 Package Contents Getting to Know Your Wireless Range Extender LED Interfaces and Buttons Label Position Your Wireless Range Extender 	1 1 2 3
Chapter 2 Internet Connection Setup	4
1 Preparation 2 Hardware Installation 3 Setup by Button 4 Internet Connection Setup Configure IP Configure the wireless range extender Login 5 Verify Internet Connection 1 6 Join Your Wireless Connection 1 Win7 OS 1 Windows XP OS	4 5 6 6 1 4 6
Chapter 3 Advanced Settings1	8
Chapter 3 Advanced Settings11 Wizard12 System Status13 Wireless13.1 Wireless Basic Settings13.2 Wireless Security23.3 Access Control23.4 Wireless Connection Status24 Tools24.1 Time Settings24.2 Upgrade24.3 Backup/Restore24.4 Restore to Factory Default24.5 Change Password24.7 Reboot2	8 888801233345667
Chapter 3 Advanced Settings11 Wizard12 System Status13 Wireless13.1 Wireless Basic Settings13.2 Wireless Security23.3 Access Control23.4 Wireless Connection Status24 Tools24.1 Time Settings24.2 Upgrade24.3 Backup/Restore24.4 Restore to Factory Default24.5 Change Password24.6 Syslog24.7 Reboot2Chapter 4 Appendix2	8 8 8 8 8 0 1 2 3 3 4 5 6 6 7 8

Win7 OS	28
Windows XP OS	30
Appendix 2 Default Settings	32
Appendix 3 FAQs	33
Appendix 4 Remove Wireless Network from Your PC	34
Appendix 5 Safety and Emission Statement	36

Chapter 1 Product Overview

1 Package Contents

Unpack the package carefully and verify the following items are included:



If any of the above items are incorrect, missing, or damaged, please contact your Tenda reseller for immediate replacement.

2 Getting to Know Your Wireless Range Extender

LED



LED	Description
	Solid: Proper connection is established on the LAN port.
-	Blinking: Transferring data on the LAN port.
	Off: No connection is established on the LAN port.
\triangleleft	Weak signal strength (-80dBm~-61dBm).



$\overline{\overline{\bigtriangledown}}$	Medium signal strength (-60dBm~-41dBm).
	Strong signal strength (within -40dBm).
	Blinking: Negotiating key.
\$5	Solid: Bridged successfully.
	Off: Not bridged.
	Solid: Proper connection to power supply.
\bigcirc	Blinking: The system is functioning properly.
	Off: Improper connection to power supply.
7/	This icon is for decoration only.

Interfaces and Buttons



- 1 **PWR:** Port for connecting to power supply.
- 2 LAN (1/2/3/4): Ports for connecting to PCs, switches or routers.
- 3 **EXTENDER:** Press the WPS or QSS button for about 1~3 seconds and then press this button within 2 minutes for network connection. When the EXTENDER LED displays a solid light, bridged successfully.
- 4 **RESET:** Press it for about 10 seconds until the Power/SYS LED is no longer blinking to restore default factory settings. For default settings, please refer to <u>Appendix 2</u>.

Label



You can acquire the following information from Label:

- 1. Model: Displays the product model.
- 2. Default Access: The default web login is http://re.tendacn.com.
- 3. **Password:** The default password is admin.
- 4. Power: The power specification is 9V 0.6A.
- 5. **MAC:** Displays the device's default MAC address.
- 6. **Default SSID:** Displays the device's default SSID name.

3 Position Your Wireless Range Extender

For best performance, please place your wireless range extender:

- 1. Near the center of the area where your computers and other devices operate, and preferably within line of sight to your wireless devices.
- 2. Accessible to an AC power outlet and near Ethernet cables for wired computers.
- 3. In an elevated location such as a high shelf, keeping the number of walls and ceilings between the range extender and your other devices to a minimum.
- 4. Away from electrical devices that are potential sources of interference, such as ceiling fans, home security systems, microwaves, PCs, the base of a cordless phone, or a 2.4GHz cordless phone.
- 5. Away from any large metal surfaces, such as a solid metal door or aluminum studs. Large expanses of other materials such as glass, insulated walls, fish tanks, mirrors, brick, and concrete can also affect your wireless signal.

Chapter 2 Internet Connection Setup

1 Preparation

Before connecting Ethernet cables, please verify the following items:

Item	Description
Wireless Range	Inculded in the peakers
Extender	incuided in the package
Wireless Router	Purchased by yourself
PC	Installed with IE8 or other better web browsers.
Ethernet Cables	Used for connecting PC to the wireless range extender

2 Hardware Installation

1. Connect the wireless range extender to your PC wirelessly or with an Ethernet cable;



Wireless Router

2. Connect to power supply with the provided power adapter. For better performance, place the device near the center of the area where your computers and other devices operate.



[™]Note-----

Please use the provided power adapter, otherwise the device may be damaged.

3 Setup by Button

By pressing the EXTENDER button, you can achieve wireless bridging for extending wireless network without complicated procedures. This feature will only be effective in range extender mode.

Configuration procedures:

1. Press the WPS or QSS button on your wireless router for 1~3 seconds;



 Press the EXTENDER button on the wireless range extender for 1~3 seconds within 2 minutes;



3. When the Range Extender LED is solid light, the wireless range extender will be connected to your desired router successfully. You can also login to the web management interface to check bridge status.





Tip-----Ensure the wireless range extender is placed near the wireless router for better performance.

4 Internet Connection Setup

Configure IP

Configure your PC obtain IP address automatically. If you are not clear about

this, please refer to Appendix 1 Configure IP.

Configure the wireless range extender Login

1. Launch a browser, and usually it will login automatically. If not, input http://re.tendacn.com in the address bar and press Enter.

ile Edit View	Favorites Tools Help		
G Back · O	- 💌 😰 🏠 🔎 Search	📌 Favorites 😧 🎯 🎍 🔜 🏂	

2. Enter the default password admin and click **OK**.

Tend a [®]	CONST		
	Login		
	Password: ••••••		

3. Then the following page will appear.

Tenda	wizard System Status Wireless Tools	50
	Fast Setting Wireless Mode AF Mode Next	Help Quick Setup AP Mode: This method requires you to set the wireless name of Access Point, Channel and Security to match the wireless Access Point. Range Extender Mode: This method requires you to set the wireless name of a

Tenda

Internet Connection Setup

Two working modes are available here: range extender mode and AP mode. The default is range extender mode.

Range Extender Mode

Wireless bridging allows a wireless network to be expanded using multiple access points. The network topology is shown below:



In this mode, you just need to configure the wireless range extender unilaterally as below:

1. Range Extender Mode Setup: Bridging the remote device for wireless extension.

Tip------Before configuring it by web-based management page, make sure you have the following information:

1. Remote router's SSID, security mode, cipher type and security key.

2. Remote router's LAN IP address.

Range extender application example:

Assuming the remote wireless router has the following information:

SSID: Tenda_130518

Security Mode: WPA-PSK

Cipher Type: AES

Security Key: 12345678

LAN IP Address: 192.168.0.1

Configuration procedures:

1. Click Wizard, select Range Extender Mode and click Next;

Tenda	wizard System Status Wireless Tools	<u> </u>
	Fast Setting Wireless Mode AF Mode Next	Help Quick Setup AP Mode: This method requires you to set the wireless name of Access Point, Channel and Security to match the wireless Access Point. Range Extender Mode: This method requires you to set the wireless name of a associated root AP, Channel and Security

2. Click **Open Scan**, select the remote router's wireless network (SSID), say Tenda_130518, click **OK** and Close **Scan**.

Quick Setup	Fast Setting					
	Associated Root AP	Tenda_07A	050			
	Associated Root Channel	Auto select	t		*	
_	Security Mode	Disable			~	
•	Please click OK to confirm to connect to se Cancel Cancel	elected AP!	Close Sca	n) Channel	Security	Sigr Strer
	jishukaifa-wudong	; 00:E	3D:C6:06:4F:80	6	WPAWPA2_AESTK	
	Geeya_R306	00:3	25:2A:01:12:48	7	NONE	
	Tenda_XXXX	C8:	3A:35:52:5F:64	7	WPA_AES	:
	Tenda 130518) C8:	3A:35:13:05:18	6	WPA_AES	

3. Enter the remote device's security key and click Save;



Tenda	wizard System Status Wireless Tools	Sõ I
Quick Setup	Fast Setting Associated Root AP Tenda_130518 Associated Root Channel 8	Help Quick Setup AP Wode: This method requires you to set the
	Security Mode WPA2-PSK T WPA Algorithms AES TKIP TKIP&AES	wireless name of Access Point, Channel and Security to match the wireless Access Point.
	Security Key Open Scan Previous Save	Range Extender Mode: This method requires you to set the wireless name of a associated root AF, Channel and Security

4. In the appearing dialogue box click **OK**;

Message fr	rom webpage
?	Please click OK to save the settings and the device will reboot automatically.
	OK Cancel

5. Click **System Status** to check the bridge status. When the bridge status displays **Connected**, bridged successfully.

Tenda			
	wizard	System Status Wireless Tools	
	System Status		Help
	LAN IP Address	192. 168. 20. 115	This section displays Rang Extender's current system
	LAN MAC Address	C8:3A:35:00:4D:4F	info.
	System Time	2011-04-01 02:05:36	weibo@Tenda: 6
	Running Time	02:05:36	
	System Version	V5.07.63_en	
	Bridge		
	Bridge Status	Connected	
	Wireless Connection	Status	
	Wireless Status	Enabled	
	Wireless Mode	Range Extender Mode	

- ✔ Tip ------
- If the wireless range extender is connected to the remote router within 20 seconds, the wireless range extender's DHCP server will be disabled automatically. Thus, the wireless range extender will get the IP assigned from the remote router and then you can access to the Internet.

- 2. If the wireless range extender isn't connected to the remote router within 20 seconds, the wireless range extender's DHCP server will be enabled automatically. The wireless range extender will get the IP assigned from the wireless range extender itself. Thus, you can't access to the Internet.
- 3. When bridged successfully, the range extender's SSID and security mode will be the same as that of the remote router.

AP Mode

In this mode, the wireless range extender is connected to the remote router for Internet access via an Ethernet cable. And your PC is connected to the wireless range extender via a wired or wireless connection. The network topology is shown below:



Configuration procedures:

1. Select AP Mode and click Next;

Tenda		KÕ
	wizard System Status Wireless Tools	
Quick Setup	wizard System Status Wireless Tools Fast Setting Wireless Mode AP Mode Next	Help Quick Setup AP Mode: This method requires you to set the wireless name of Access Foint, Channel and Security to match the virelesx
		to match the wireless Access Foint. Range Extender Mode: This method requires you to set the wireless name of a associated root AF, Channel and Security

2. Configure the fast settings: channel, security mode and security key. Click **Save**.

Tenda	wizard System Status Wireless Too	ols
Quick Setup	Fast Setting	Help
	SSID Tenda_004D4F Channel 8 • Security Mode Disable • Previous Save	Quick Setup AP Mode: This method requires you to set the wireless name of Access Point, Channel and Security to match the wireless Access Point.
		Range Extender Hode: This method requires you to set the wireless name of a associated root AP, Channel and Counciler

3. In the appearing dialogue box click **OK**.

Message fr	rom webpage
?	Please click OK to save the settings and the device will reboot automatically.
	OK Cancel

- 🖗 Tip-----
- 1. Configure your PC obtain IP address automatically. For specific procedures, please refer to <u>Appendix 1 Configure IP</u>.
- 2. Gateway of the PC (client) is assigned from the remote router.

5 Verify Internet Connection

Range Extender Mode

After the above configurations, you can verify the connection by pinging the remote router's IP. Steps are as follows (Take Windows XP OS for example):

1. Click Start>Run;



2. Enter cmd and click OK;



3. Enter "ping re.tendacn.com" and press **Enter**. If you see a similar screen, the bridge is established successfully.

C:\Windows\system32\cmd.exe	
Microsoft Windows [Version 6.1.7601] Copyright <c> 2009 Microsoft Corporation. All rights reserved.</c>	
C:\Users\zhouya>ping re.tendacn.com	
Pinging re.tendacn.com [192.168.20.115] with 32 bytes of data: Reply from 192.168.20.115: bytes=32 time<1ms TTL=64 Reply from 192.168.20.115: bytes=32 time<1ms TTL=64 Reply from 192.168.20.115: bytes=32 time<1ms TTL=64 Reply from 192.168.20.115: bytes=32 time<1ms TTL=64	
Ping statistics for 192.168.20.115: Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round trip times in milli-seconds: Minimum = 0ms, Maximum = 0ms, Average = 0ms	
C:\Users\zhouya>	
	Ŧ

AP Mode

Check whether the gateway of your PC is assigned from the remote router (take Windows XP OS for example).

- 1. Double click on the icon 🛃 at the right corner of your desktop;
- In the appearing dialogue box click Support to check the connection status. If the default gateway is the LAN IP address of the remote router, you can access to the Internet; if not, click Repair.

🕹 Local S	Status	?	$ \times$
General	Support		
Conne	Address Type: Address Type: IP Address: Subnet Mask: Default Gateway: Details	Assigned by DHCP 192, 168, 0, 103 255,255,255,0 192, 168, 0, 1	
Windov connec Repair.	vs did not detect problems with this tion. If you cannot connect, click	Repair	
		Close	

6 Join Your Wireless Connection

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.

Tip ----- find i

- 1. The range extender 's SSID is Tenda_XXXXXX by default. You can find it on the label on the bottom of the range extender.
- 2. Also, you can find the MAC address on label on the bottom of the range extender.
- 3. To join your wireless network, the PC you use must have an installed wireless network adapter. If not, install one.

Win7 OS

1. Click on the icon 🛋 at the bottom of the right corner on your desktop;

) Tip -----

If you cannot find the 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, click **Start>Control Panel>Network and Internet>Network and Sharing Center**, right click **Wireless Network Connection** and select **Connect/Disconnect**. Steps for follow-up are similar to the following.



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





3. Enter the security key and click OK.



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

Currently connected to:				
No Internet access				
Tenda_OFF02D	Connected			
Tenda_5	5.ul			
Default_5G	Sall			
Default_2.4G	5a0			
123	Sat1			
Tenda_020070	3a0			
100456	0.al	Ŧ		
Open Network a	and Sharing Center			

Windows XP OS

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





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



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

¹⁾ 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 \underline{w} reless network in range or to get	more	
Set up a wireless network	((ဓူ))	Tenda_5G_48C730		^
	U	Unsecured wireless network	B OOD	
Related Tasks	((0))	Tenda_5G_000058		
D Learn about wireless		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		😚 Security-enabled wireless network (WPA2)		
	((0))	Tenda_0FF02D		
	1.	🔓 Security-enabled wireless network (WPA)		
		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 Conne	ection 🔀			
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 (Connect.			
Network <u>k</u> ey:	•••••			
Confirm network key:	••••••			
	<u>Connect</u> Cancel			

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



Chapter 3 Advanced Settings

1 Wizard

Here you can configure the device's working mode. For specific configurations, please refer to <u>Chapter 2 Internet Connection Setup</u>.

Tend a [®]					
	wizard	System Status	Wireless	Tools	
Quick Setup	Fast Setting				
	Wireless Mode	⊚ Range Extender M	ode		
		🔘 AP Mode			
		Nex			

2 System Status

This section displays the device's current system info.

Tend a°			\sim \sim	2303	KO
	wizard	System Status	Wireless	Tools	
System Status	System Status				Неlр
	LAN IP Address	192. 168. 20. 115			This section displays Range
	LAN MAC Address	C8:3A:35:00:4D:4F			info.
	System Time	2011-04-01 01:27:39			weibo@Tenda: 6
	Running Time	01:27:39			
	System Version	V5.07.63_en			
	Bridge				
	Bridge Status	Disconnected			
	Wireless Connection	n Status			
	Wireless Status	Enabled			
	Wireless Mode	Range Extender Mode			
	Primary SSID	w311r_pxy			

3 Wireless

3.1 Wireless Basic Settings

This section allows you to manage your wireless network.

Tenda			
	wizard	System Status Wireless	Tools
	Wireless Basic Sett	ings	Help
Wireless Security	Primary SSID	w311r_pxy	In this section you can
Access Control	Secondary SSID	Tenda 004D4E	configure the wireless settings of Range Extender
Wireless Connection Status	Secondary SSID		such as the SSID (name of
	Network Mode	11b/g/n mixed mode	the network) and Broadcast Channel.
	SSID Broadcast	🔘 Enable 💿 Disable	
	AP Isolation	🔿 Enshle 🗿 Disshle	SSID: This is the public name of your wireless
			network. It is preset to
	Channel	Channel 8(2447MHz)	"Tenda_XXXXXX" (where "XXXXXX" represents the
	Channel Bandwidth	20	last six characters in
	Extension Channel	Channel 4(2427MHz)	device MAC address.) by default. Please change it
			for better security. Note
	WMM Capable	💿 Enable 💿 Disable	that this field should not
	APSD Canable	Enable	be left blank.
		<u> </u>	SSID Broadcast:This
			option allows you to have
		OK Cancel	your network names (SSIDs)

- SSID: This is the public name of your wireless network. It is preset to "Tenda_XXXXXX" (where "XXXXXX" represents the last six characters in device MAC address.) by default. Please change it for better security. Note that this field should not be left blank.
- Network Mode: Select a correct mode according to your wireless clients.
 11b mode: Select it if you have only 11b wireless devices in your wireless network. Up to 11Mbps wireless rate is supported on this mode.
 11g mode: Select it if you have only 11g wireless devices in your wireless network. Up to 54Mbps wireless rate is supported on this mode.
 11b/g mixed mode: Select it if you have 11b and 11g wireless devices in your wireless network. Up to 54Mbps wireless wireless rate is supported on this mode.

11b/g/n mixed mode: Select it if you have 11b, 11g and 11n wireless devices in your wireless network. In this mode wireless connection rate is negotiated. Up to 300Mbps wireless rate is supported on this mode.

- 3. **SSID Broadcast:** Select Enable/Disable to make your wireless network visible/ invisible to any wireless clients within coverage when they perform a scan to available networks. When disabled, wireless clients will have to first know this SSID and manually enter it on their devices if they want to connect to the SSID.
- 4. **AP Isolation:** When it's enabled, clients connected to the same SSID will be isolated.
- 5. **Channel:** For optimal wireless performance, you may select the least used channel. It is advisable that you select an unused channel from the drop down list, or "Auto" to let the range extender detect and select the best possible channel for your wireless network to operate on.
- 6. **Channel Bandwidth:** Select a proper channel bandwidth to enhance wireless performance. Available only in 11b/g/n mixed mode.

- 7. Extension Channel: Available only in 11b/g/n mixed mode.
- 8. **WMM-Capable:** WMM is QoS for your wireless network. Enabling this option may better stream wireless multimedia data (such as video or audio).
- 9. **ASPD Capable:** Select to enable/disable the auto power saving mode. We recommend you disable it.

ν Τια ----- αίτ

- 1.The default primary SSID is Tenda_XXXXXX. XXXXXX is the last 6 characters of the MAC address, which you can get from the label on the device.
- 2.If you are not familiar with these configurations, it is advisable that only the primary SSID and channel should be modified.

3.2 Wireless Security

This section allows you to encrypt your wireless network to block unauthorized accesses and malicious packet sniffing.

To secure your wireless network:

- 1. Select the SSID you wish to secure;
- 2. Configure its security mode, WPA Algorithms and security key;
- 3. Click **OK** to save your settings.

Tenda	wizard System Status Wireless Tools	S.
Wireless Basic Settings	Vireless Security Setup	Help
Tireless Security Access Control Wireless Connection Status	Select SSID W311r_pxy Security Mode WPA2-PSK * WFA Algorithms	Here you can set the wireless password for your wireless network. You are recommended to select WFA- FSK as Security Mode and AES as WFA Algorithms Type. WEP Key:Must be either 5 or 13 ASCII characters or 10 or 25 Hex characters.
		WPA/WPA2-Personal :You can enable personal (PSK)

- 1. **Open:** Wireless speed can reach up to 54Mbps if Open is selected.
- 2. Shared: Wireless speed can reach up to 54Mbps if Shared is selected.
- 3. **Default Key:** 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, supports AES, TKIP and TKIP+AES cipher types. Note: Usually TKIP&AES is not optional.
- WPA2-PSK: WPA2 personal, support AES, TKIP and TKIP+AES cipher types.

- 6. **Mixed WPA/WPA2-PSK:** 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 to300Mbps.
- 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.
- 10. Security Key: Must be between 8~63 case-sensitive ASCII characters or 8~64 Hex characters.

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

3.3 Access Control

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

There are three options available: Disable, Forbid and Permit.

Tenda			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	120	K O
	wizard	System Status	Wireless	Tools	
					-
Wireless Basic Settings	Access Control				Не1р
Wireless Security	Select SSID	Tenda_004D4F	-]	Specify a list of wireless devices to "Permit" or
Access Control	MAC Address Filter	Disable	•]	"Forbid" a connection to
Wireless Connection Status		Disable Permit Forbid UK	Cancel		your Range Extender via the devices' MAC addresses. All other devices not listed as permitted will be forbidden and vice versa.

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.

Configuration procedures:

- 1. Select the SSID you wish to configure access control;
- 2. Select Permit;
- 3. Enter the MAC address and click Save.
- 4. Click Add;

Tenda	NOK CAL
	wizard System Status Wireless Tools
Wireless Basic Settings	Access Control
Wireless Security	Select SSID Tenda_004D4F
Access Control	MAC Address Filter Permit
Wireless Connection Status	
	MAC Address
	C8 : 3A : 35 : C2 : E7 Add
	C8:3A:35:C2:CA:E7 Delete
	OK Cancel

- 5. Click **OK** to save your settings;
- 1. Up to 16 wireless MAC addresses can be configured.
- 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.

3.4 Wireless Connection Status

Click Wireless > Wireless Connection Status. Here you can see a list of

Wireless Basic Settings	Wireless	Connection Stat	us		Help	
Wireless Security	Select SSII	Select SSID Tenda_004D4F				
Access Control						
	The current	ly connected hosts li:	st: Refresh		Bandwidth:The channel	
	NO.	MAC Address		Bandwidth	frequency width of each	
					connection. 40M is requir for 802.11n speeds.	

wireless devices connected to the range extender.

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

Tenda

4 Tools

4.1 Time Settings

This section lets you configure, update, and maintain the correct time on the internal system clock. You can either select to set the time and date manually or automatically obtain the GMT time from Internet. Note that the GMT time is obtained only when the range extender is connected to the Internet.

Tenda						
	wizard System Status Wireless Tools					
Time Settings	Time Settings					
Upgrade	Time Zone					
Backup/Restore	(GMT+01:00) Amsterdam, Berlin, Bern, Rome, Stockholm, Vienna					
Restore To Factory Default	Note: System time will not be accurate unless there is an access to the Internet or you select "Customized Time" below.					
Change Password	Customized Time 2013 Year 9 Month 28 Day 19 Hour 39 Minute 12 Second					
Syslog						
Reboot	OK Cancel					

- 1. Time Zone: Select your current time zone.
- 2. Customized Time: Check it to customize time.

4.2 Upgrade

Upgrade is released periodically to improve the functionality of your device,

and also to add any new features. If you run into a problem with a specific

feature of the range extender you could log on to our website

(www.tendacn.com) to download the latest firmware to update your device.

Tenda						
	wizard System Status Wireless Tools					
Time Settings	Upgrade					
Vpgrade	By upgrading the router' software, you'll get new features.					
Backup/Restore	Select the firmware file: Browse Upgrade					
Restore To Factory Default	Current System Version: V5.07.63_en; Publishing Date:Sep 28 2013 Note: Do not power off the router during the upgrade and you can only use a computer that is plugged into one of the LAN ports of this router to complete the upgrade to					
Change Password						
Syslog	avoid damaging the router. The router will reboot automatically after the upgrade.					
Reboot						

To upgrade firmware, do the following:

1. Click **Browse** to locate and select the firmware file and **Upgrade** to update your range extender.

2. Device restarts automatically when the upgrade process is completed.

▲_{Note-----}

- 1. Please verify the firmware is correct.
- 2. DO NOT power off the range extender when the upgrade is in process otherwise the range extender may be permanently damaged. When the upgrade is completed, the range extender will automatically reboot. The firmware upgrade may take a few minutes to complete so please wait for the process to finish. Note that you need to update the device's firmware via a wired connection.

4.3 Backup/Restore

This feature allows you to backup and restore current settings. Once you have configured the range extender, you can save these settings to a configuration file on your local hard drive. The configuration file can later be imported to your range extender in case the range extender is reset to factory default settings.

Tenda					
	wizard	System Status	Wireless	Tools	Q
Time Settings Upgrade	Backup/Restore Here you can Backup your	router's current confi	guration or restore	e your router wit	h a
	saved configuration file Click here to save a con	figuration file to your	computer: Backu	ıp	
Restore To Factory Default					
Change Password		Browse Restor	e		
Syslog					

Tip-------The default configuration file name is "RouterCfm.cfg". You can change it as you like. For safety purpose, do not change the file extension.

4.4 Restore to Factory Default

Tenda	NOK?
	wizard System Status Wireless Tools
Time Settings	Restore To Factory Default
Upgrade	Click this button to restore all settings to factory default.
Backup/Restore	Restore To Factory Default
Restore To Factory Default	
Change Password	
Syslog	
Reboot	

Click the **Restore To Factory Default** button to reset the range extender to its factory default settings.

- 1. Default IP Address: 192.168.0.254
- 2. Default Subnet Mask: 255.255.255.0
- 3. Default Password: admin

▲_{Note}------

1. Once restored to factory default, you need to reconfigure the device for Internet access as well as many other settings including wireless settings.

2. It is not advisable to restore the device to factory default settings unless our technical supporters recommend you do so.

4.5 Change Password

This section allows you to change login password and user name for accessing the device's Web-based management interface.

Tenda					
	wizard	System Status	Wireless	Tools	
Time Settings Upgrade	Change Password Administrator Login Creder	ntials			
Backup/Restore	Password must be alpha-numeric. Old Password				
Restore To Factory Default	New Password	•••••			
Change Password	Confirm New Persword				
Syslog	COULTLIN New 1822Word	•••••			
Reboot		OK	Cancel		

- 1. **Old Password:** Enter the old password. If you use the device for the first time, the password is admin by default. (Note: Password cannot be retrieved once forgot) If you already changed the password and unfortunately forget, restore the device to factory defaults.
- New Password: Input a new password. Password must include 1 ~ 12 characters without any space.
- 3. **Confirm New Password:** Re-enter the new password for confirmation.
- ିମ୍ଦି Tip -----
- 1. For security purpose, it is highly recommended that you change the default login password as part of the initial configuration of your range extender.
- Only numbers and alphabets can be included in the password (1~12 characters). If no character entered, it has no password.

4.6 Syslog

Here you can view the history of the device's actions. After 150 entries, the earliest logs will be cleared automatically.

Tenda					TAC)	X
	wiza	rd Syst	em Status	Wireless	Tools	
Time Settings	Syslog					
Upgrade			Logs in pag	çe		
Backup/Restore	1 2011-04-01	02.03.08	dhene hr0	DHCPC DISCOVER	rending	
Restore To Factory Default			antpi_tro			
Change Password	[1]					
Syslog		[Refresh	Clear		
Reboot						

4.7 Reboot

This section allows you to reboot the device. Rebooting the device will activate any modified settings on this device. While rebooting, all connections will be lost and reconnected automatically later.

Tenda						
		wizard	System Status	Wireless	Tools	\bigcirc
Time Settings Upgrade	Reboo Click) t the button to reb	oot the router:			
Backup/Restore Restore To Factory Default	Rel	poot				
Change Password						
Syslog						
Reboot						

Chapter 4 Appendix

Appendix 1 Configure IP

In this section we explain how to configure your PC's TCP/IP settings. Win7 $\ensuremath{\text{OS}}$

1. Click Start>Control Panel;



2. Enter Control Panel and click Network and Internet;



3. Click Network and Sharing Center;



4. Click Change adapter settings;



5. Right click Local Area Connection and select Properties;



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

😋 💭 🗢 😰 « Network and Internet 🕨 Network Connections 🕨
Local Area Connection Properties
Networking
Connect using:
Intel(R) PRO/1000 MT Network Connection
Configure
This connection uses the following items:
Client for Microsoft Networks
File and Printer Sharing for Microsoft Networks
Internet Protocol Version 6 (TCP/IPv6)
✓ Link-Layer Topology Discovery Mapper I/O Driver
🗹 📥 Link-Layer Topology Discovery Responder
Install Uninstall Properties
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.
OK Cancel

7. Select Obtain an IP address automatically and click OK to save the

configurations.

Internet Protocol Version 4 (TCP/IPv4)	Properties ? X
General Alternate Configuration	
You can get IP settings assigned autor this capability. Otherwise, you need to for the appropriate IP settings.	matically if your network supports o ask your network administrator
Obtain an IP address automatical	lly
OUse the following IP address:	
IP address:	
Subnet mask:	
Default gateway:	
Obtain DNS server address autor	matically
Set the following DNS server add	dresses:
Preferred DNS server:	
Alternate DNS server:	
Validate settings upon exit	Advanced
	OK Cancel

Windows XP OS

1. Right click My Network Places and select Properties;



2. Right click Local and select Properties;





3. Select Internet Protocol (TCP/IP) and click Properties;

🕂 Local Properties 🔹 🥐 🔀
General Authentication Advanced
Connect using:
Intel(R) PR0/1000 MT Network Con Configure
This connection uses the following items:
☑ 💂 QoS Packet Scheduler
The PPP over Ethernet Protocol The Protocol (TCP/IP)
× ×
Install Uninstall Properties
Description
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.
 Show icon in notification area when connected Notify me when this connection has limited or no connectivity
OK Cancel

4. Select **Obtain an IP address automatically** and click **OK** to save the settings.

Internet Protocol (TCP/IP) Prope	rties 🛛 🛛 🛛 🔀
General Alternate Configuration	
You can get IP settings assigned auto this capability. Otherwise, you need to for the appropriate IP settings.	matically if your network supports o ask your network administrator
💿 Obtain an IP address automatica	ly
OUse the following IP address: —	
IP address:	
Subnet mask:	and the second second
Default gateway:	and the second second
 Obtain DNS server address autor 	natically
OUse the following DNS server add	dresses:
Preferred DNS server:	and the second second
Alternate DNS server:	
	Advanced
	OK Cancel

Appendix 2 Default Settings

Par	ameters	Default Settings	
Web Login	Address	http://re.tendacn.com	
	Wireless Setup	Enabled	
	Primary SSID	Tenda_XXXXXX (XXXXXX is the last 6 characters of the MAC address)	
	Working Mode	11/b/g/n Mixed	
	SSID Broadcast	Enabled	
Wireless	AP Isolation	Disabled	
Settings	Channel	Auto	
	Channel Bandwidth	20/40	
	Extension Channel	Auto	
	WMM Capable	Enabled	
	APSD Capable	Disabled	
	Security Mode	Disabled	
Tools	Time	(GMT+08:00)Beijing, Chongqing, Hong Kong, Urumqi	
	Password	admin	

Appendix 3 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 www.tendacn.com to find a solution or email your problems to: support@tenda.com.cn or support02@tenda.com.cn. We will be more than happy to help you out as soon as possible.

1. Q: I entered the device's LAN IP address in the web browser but cannot access the utility. What should I do?

- a. Check whether device is functioning correctly. The Power/SYS LED should blink after device is powered up. If it does not light up, then some internal faults may have occurred.
- b. Verify physical connectivity by checking whether a corresponding port's link LED lights up. If not, try a different cable.
- c. Verify your PC obtains IP address automatically or configure the IP manually by keeping the IP in the same network segment with the LAN IP (192.168.0.1~192.168.0.253).
- d. Press the RESET button with something pointed for about 10 seconds to restore the device to factory default settings and re-login.

2. Q: What should I do if I forget the login password to my device?

Reset your device by pressing the Reset button for over 10 seconds.

- 3. Q: My computer shows an IP address conflict error after having connected to the device. What should I do?
- a. Check if there are other DHCP servers present in your LAN. If there are other DHCP servers except your range extender, disable them immediately.
- b. The default IP address of the device is http://re.tendacn.com; make sure this address is not used by another PC or device. In case that two computers or devices share the same IP addresses, change either to a different address.

Appendix 4 Remove Wireless Network from Your PC

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

If you are using Windows XP, do as follows:

1.Right click My Network Places and select Properties.



2.Click Wireless Network Connection and then select Properties.



3.Click **Wireless Networks**, select the item under **Preferred networks** and then click the **Remove** button.

🕂 Local Area Connection 2 Properties 🛛 🔹 🔀
General Wireless Networks Advanced
Use Windows to configure my wireless network settings
Available networks:
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
Add Remove Properties
Leam about setting up wireless network Advanced
OK Cancel

If you are using Windows 7, do as follows:

1.Click Network from your desktop and select Properties.



2.Select Manage Wireless Networks.

Control Panel	Network and Internet Network and Sharing	Center	• 4 ₇	Search Control Panel	
Control Panel Home	View your basic network informat	ion and s	et up conne	ctions	(
Manage wireless networks Change adapter settings Change advanced sharing settings	TEST-PC Te (This computer)	enda_home	×	= O Internet	See full map
Jungs	View your active networks Tenda home Public network		Access type: Connections	Conne No Internet acces Wireless Network (Tenda_home)	ct or disconnect s Connection 8
	Change your networking settings	rk			

3. Click the wireless connection and select Remove network.

d Adapter prop	erties Profile types	Network and Sharing Cent	er	
tworks you can vie	ew, modify, and reorder e Secu	(2) urity: WPA-Personal	Type: Any supported	Automatically connec
Tenda_AAA	ABA Secu	irity: WPA-Personal	Type: Any supported	Automatically connec

Appendix 5 Safety and Emission Statement

CE

CE Mark Warning

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. This device complies with EU 1999/5/EC.

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.

FC

FCC Statement

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.

-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.

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment.

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.