

User Guide

Wireless USB Adapter Applies to W311M/ W311Ma/W311MI

Shenzhen Tenda Technology Co.,Ltd. www.tendacn.com

Copyright Statement

© 2015 Shenzhen Tenda Technology Co., Ltd. All rights reserved.

Tenda is a registered trademark legally held by Shenzhen Tenda Technology Co., Ltd. Other brand and product names mentioned herein are trademarks or registered trademarks of their respective holders. Copyright of the whole product as integration, including its accessories and software, belongs to Shenzhen Tenda Technology Co., Ltd. No part of this publication can be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language in any form or by any means without the prior written permission of Shenzhen Tenda Technology Co., Ltd.

Disclaimer

Pictures, images and product specifications herein are for references only. To improve internal design, operational function, and/or reliability, Tenda reserves the right to make changes to the products without obligation to notify any person or organization of such revisions or changes. Tenda does not assume any liability that may occur due to the use or application of the product described herein. Every effort has been made in the preparation of this document to ensure accuracy of the contents, but all statements, information and recommendations in this document do not constitute the warranty of any kind, express or implied.

Contents

Chapt	er 1 Product Introduction	2
1.1	Overview	2
1.2	Features	
1.3	LED	
1.4	Button	
Chapt	er 2 Install Wireless USB Adapter	4
2.1	Physical Connection	
2.2	Driver and WLAN Utility Installation	4
Chapt	er 3 Connect to WiFi	7
3.1	Via Tenda WLAN Utility	7
3.2	Via Windows Built-in WLAN Program	
W	Vindows 7	
W	Vindows 8	
3.3	Via WPS	
В	by WPS Button (Available for W311M/W311Ma)	
P.	BC Connection	
Ρ.	IN Code Connection	
Chapt	er 4 Tenda WLAN Utility	
4.1	STA Mode	
(Available Networks	
	Link Information	21
	Profile	
(Advanced	
(Let About	
3	Help	
4.2	AP Mode	
	AP Setup	
(Advanced	
(25
2	Access Control	
	Connected Devices	
4.3	STA+AP Mode	
	AP	
Appen	ndix 1 Disable Other Wireless Adapter	
Appen	ndix 2 WPS Profile	
Appen	ndix 3 Safety and Emission Statement	

About this Manual

Thank you for purchasing our product. This manual applies to W311M, W311MI and W311Ma. W311M is taken as a guide to illustrate their functions and features. And their respective differences will be specially marked.

Before Installation

1. This user guide may instruct you to install and configure the device. Please read carefully before you start to use this product.

2. To avoid possible network conflicts between this Tenda network adapter and those of other manufactures, it's recommend that you first disable the network adapters of other manufacturers before installing the driver. See **Appendix 1 Disable Other Wireless Adapter** for details.

May you have a nice experience!

Chapter 1 Product Introduction

1.1 Overview

The Wireless USB Adapter of W311M series adopts 11n technology, which makes the wireless transmission speed up to 150Mbps. It supports soft AP function. That means you can use it as an AP. Installing this product with a desktop PC or a notebook establishes a cost-effective wireless network swiftly and conveniently. The compactness design makes you take it everywhere.



1.2 Features

- Up to 150Mbps wireless speed
- Complies with IEEE 802.11b, IEEE 802.11g, and IEEE 802.11n standards
- Supports soft AP feature
- USB2.0 port
- Detects wireless network and adjusts transmitting rate automatically
- Provides two working modes: Infrastructure and Ad-Hoc
- Complies with Windows XP/ Windows 2000/ Windows 7/ Windows 8/ Windows Vista

1.3 LED

(W311M and W311Ma are equipped with a LED indicator, but W311MI is not.)

Solid: Indicates the wireless adapter works properly.

Blinking: Indicates the wireless adapter is transmitting data.

Off: Indicates the wireless adapter works improperly.

1.4 Button

(W311M and W311Ma are equipped with a WPS button, but W311MI is not.)

WPS button: Press it to do a WPS pair with a remote device (AP, router).

Chapter 2 Install Wireless USB Adapter

The installation steps below are described on Windows 7. You can take them for reference if you are using other system operations.

2.1 Physical Connection

Insert the Wireless USB Adapter into a USB port of your computer (desktop or laptop).



2.2 Driver and WLAN Utility Installation

After you have finished the physical installation, install the driver and Tenda WLAN Utility for a perfect experience.

1. Insert the included CD in your PC's CD-ROM drive, and the CD will run automatically; if not, double click **Tenda.exe** file attached to the CD. Click **RUN** to start setup.



USER GUIDE

RUN

4

EXIT

2. Check "I accept the terms of the license agreement" and click Next.



Tenda Wireless LAN - InstallShield Wizard

3. It is recommended to choose "Install driver and Tenda WLAN Utility" setup. And click Next.

Fenda Wireless LAN - InstallShield Wizard					
Setup Type Select the setup type that best	: suits your needs.				
	Choose to install				
Tenda	 Install driver and Tenda WLAN Utility Install driver only 				
Instalishield	< <u>B</u> ack <u>N</u> ext >	Cancel			

Installing...

Tenda Wireless LAN - InstallShield W	lizard	-	X
Setup Status			
Tenda	The InstallShield Wizard is installing Tenda Wireless LAN Installing		
InstallShield			ancel

4. Install Shield Wizard completely. Click **Finish** to get setup done. To activate the setup, it is recommended to restart your computer now.

Tenda Wireless LAN - Instalishie	d Wizard
	InstallShield Wizard Complete The InstallShield Wizard has successfully installed Tenda Wireless LAN. Before you can use the program, you must restart your computer.
Tenda	 Yes, I want to restart my computer now. No, I will restart my computer later. Remove any disks from their drives, and then click Finish to complete setup.
InstallShield	< <u>B</u> ack Finish Cancel

5. Tenda WLAN utility will run automatically.



Chapter 3 Connect to WiFi

You can connect to WiFi via Tenda WLAN utility, Windows built-in WLAN program or WPS feature.

_

3.1 Via Tenda WLAN Utility

1. Click icon to display the available wireless networks.

	Available Networks	×
* SSID * Rate * IP Address * Channel * Mask	85555 4 9 1 78% ADSL-D303-4 2 9 1 78% AirLink1500 1 9 1 100% AirLink2A9C30 1 9 1 9 100% AirLink2A9C30 1 9 1 9 1 52% ChinaNet-t4Y4 1 9 1 52% 1 5 1 52% harxon-450 1 1 9 1 52% 68% hyh_000065 2 1 9 1 100% IP-COM_F80ED0 2 1 9 1 100% Maxcom_3456 8 1 9 1 100% Maxcom_3456 8 1 9 1 27% SY-12345 10 1 9 1 27% SY-12345 10 1 9 1 47% Tenda_000066 2 1 9 9 9% AP Information XSID ADSL-D303-4 Authentication XPA2-PS	

2. Double click the wireless network you will connect (**Or** select the wireless network and click icon).



and click **i**con to continue.

Toro da				Availa	able Net	works				×
ienda	🕗 🗐 🕲 🕲 🚺 🤅 🗙	R	9 🗄							
((•))		ſ	Tenda_wl_test_sv	ķ	11	b 9	0		89%	
SSID			Tenda_zl	<u>ķ</u>	13	<u> </u>	<u>n</u>	ji 1	00%	
Rate	P Address		tg-tg TGNFT 1	Ř	1	- 👸 🖁	Å.		57% 57%	
Channel	<mark>≥</mark> Mask		TGNET_B00069	ě	2	🛛 🝈 💆	ŏ		52%	
			tp-CESHI	Ŕ,	11	69	Ū.	E 1	.00%	
	Profile Settings X		TP-LINK_F731	ķ	13	្រ ច្នូ ខ្ន	Q -	(† 1	.00%	
			vienna hotel WIFI	Ŋ.	1	្រ ឆ្នី ខ្ល	Q		37%	
			vienna hotel WIFI	×.	1	្រទ្រទ	Q.	a :	31%	
			w311r_pxy	8	13	្រទ្ឋទ	W.	L 1	.00%	
Authentication	WPA2-PSK		xingxing	¥.	1	ja j	W.		26%	
			ZL_huangjeli	¥.	13		W.	լլ 1 Թ.	.00%	
Encryption	AES 💌		zl_huangjieli01	Š.	13	_ <u>© 9</u>	W.	L 1	.00%	=
			2L_wangwenxiu	Š.	13	<u> </u>	W.	լլ 1 © Հ	.00%	
			zl_xuhuanhuan2	Ø	13	0 9	Ψ	<u>[</u> 1	.00%	-
			AP Information CEID Tondo al		A+	hontication	WD	DEK	in a	(he
			AAC Address CO 2A 25		AUU AUU	nenucation	ALC:	4+3K		(")
			VIAC Address C8-3A-35	-11-55-	98 Enci	rypuon	AES			

3. Do as the screen prompts. (The current wireless network requires wireless password. Input it and click icon to continue.)

	Available Networks	×
Image: state > IP Address Image: state > IP Address Image: state > Mask	Tenda_0335E4 8 9 1) 1/2 37% Tenda_0338E8 3 9 1) 73% Tenda_118911 8 9 1) 1/2 52% Tenda_233220 11 9 1) 100% Tenda_4708_2.4G 7 9 1) 100% Tenda_403080 6 9 1) 11%	*
Profile Settings X	Tenda_888888 Image: Non-State State	
WPA Preshared Key	Tenda_C8D9FF I I I I Tenda_C8DBA3 6 I I 100% TENDA_DD1122 I I I I I Tenda_HHHHH I I I I I I Tenda_KKKKK I I I I I I	m
Show Password	AP Information SSID Tenda_zl Authentication WPA-PSK MAC Address C8-3A-35-11-55-98 Encryption AES	

4. Connected successfully!

	Available Networks ×
((↑)) > SSID Tenda_zl > Rate 150.0 Mbps > IP Address 192.168.0.102 IIII > Channel 13 (2472 MHz) > Mask 255.255.255.0	SY-20ap 9 9 9 9 100% SY_TEST 2 9 100% 100% SY_tianchizhao 11 9 1/1 73% Tenda_000188 2 9 73% 73% Tenda_0018A 2 9 73% 73% Tenda_0335E0 13 9 100% 100%
Link Information ×	Tenda_118911 Image: bold with the second
Status Tenda_zi <> C8-3A-35-00-01-40 Extra Info Link is Up [Tx Power:100%] Authentication WPA2-PSK Encryption AES	Tenda_666666 13 10 100% Tenda_888888 6 9 1 49% Tenda_C8DA05 8 9 100% Tenda_C8DB09 13 9 100% Tenda_gggggggggggggggggggggggggggggggggggg
Network Type Infrastructure Central Channel 11	AP Information SSID Tenda_zl Authentication WPA2-PSK MAC Address C8-3A-35-00-01-40 Encryption AES

3.2 Via Windows Built-in WLAN Program

Windows 7

1. Left click **Network** (or) icon on the lower right corner of desktop to display the available wireless networks.



2. Select a wireless network you want to connect, click **Connect** and do as the screen prompts.

Connected successfully!



Currently connected to: Tenda_zl Internet access	*** ^				
Wnidentified network No Internet access					
Wireless Network Connection	on 🔺				
Tenda_zl Co	onnected				
zl_xuhuanhuan2	lte.				
TENDA_87EFA1	lte.				
Tenda_test_origial_D302					
ChinaNet-5386	lte.				
ASUS_Guest1	311				
1 2222	🔹 h. 🖲				
Open Network and Sharing Center					

Windows 8

Step 1: C	lick the icon 📓 on the bottom right corner of	P 🛍 🕪 😣 [16:59 M 2015/5/20	
Step 2: So then follo	elect your wireless network from the list, click (w onscreen instructions.	Networks Wi-Fi 2		
			Tenda_163251	atl
			Tenda_895421	ail
	Tip		Tenda_zl	all
	If you cannot find your wireless network from the list, ensure the Airplane Mode is not enabled on your PC.		✓ Connect auton	natically Con <mark>pect</mark>
Step 3: W following	/hen your wireless network is connected succes	Networks Wi-Fi 2		
			Tenda_zl	Connected ,

3.3 Via WPS

Or you can connect to an AP or wireless router via this wireless adapter (**STA Mode**) by WPS. WPS setting supports PBC and PIN code modes. The operations below are for references.

By WPS Button (Available for W311M/W311Ma)

(W311M and W311Ma are equipped with a WPS button, W311MI is not.)

Process

- 1. Enable the WPS feature of the remote AP or router and press the WPS button on it.
- 2. In two minutes, press the WPS button on the wireless adapter.
- 3. Wait the wireless adapter for getting an IP address and then you can access the Internet.

PBC Connection

Process

1. Enable the WPS (PBC) feature of the remote router. (The detailed operations see router manual.)



5. Click Start PBC

button to start PBC

connection.



The wireless adapter gets an IP address from the remote AP/ router. Connection between the remote AP/ router and the wireless adapter is established successfully.

((•))	SSID	Tenda zl				
	Rate	150.0 Mb	os	IP Address	192.16	3.0.102
att	🖢 Channe	el 11 (2472	MHz)	Mask	255.25	5.255.0
Profile List ×						
PROF1 Tenda_zl						
V PF	ROF1	Tenda_zl				Ø.
V PF	ROF1	Tenda_zl			Ľ	Ø.
e Pf	ROF1	Tenda_zl			Ę.	Ø
✓ PF	ROF1	Tenda_zl				8

PIN Code Connection

Process





 Select **PIN** of WPS Method, select the remote AP you want to PIN from the **WPS**

AP List. And click icon.



Here you have two options: <u>Type PIN in AP</u> and <u>Type PIN below</u>. Choose one you like to use.



3. Type PIN in AP

Select **Type PIN in AP** and note down the Pin code number (here is **19559032**), and copy this group number to the remote AP (or router). (The detailed operation on the remote device see its manaul.)

Tel	nda	
((†))	SSID	
	Rate	P Address
Ж	Channel	Mask
. 4	Profile Se	ettings X
PIN	I Entry Method Type PIN in AF	WPS Profile
	Pin Code 19559032	



5. The wireless adapter gets an IP address from the remote AP/ router. Connection between the remote AP/ router and the wireless adapter is established successfully.



3. Type PIN below

Select **Type PIN below** and copy the PIN code number from the remote AP (or router) into the Pin Code field of the wireless adapter. And click

icon.





4. Click Start PIN button to PIN.

Profile Settings	×
UPnP Received probe request	0 %

The wireless adapter gets an IP address from the remote AP/ router. Connection between the remote AP/ router and the wireless adapter is established successfully.

Note

 Under the WPS connection mode, when multiple routers simultaneously enable the WPS function, it may
 cause connection failure.
 If the router connects to the adapter
 using the WPS, only one client can be
 connected at one time, and so if the
 router needs to connect to multiple
 clients through WPS, you should
 repeat the WPS operation.

Tel	nda	()(i) ? ×	
⁽⁽ † ³⁾	SSID	ExRegNW266140			
l 🔒	Rate	150.0 Mbps	PIP Address	192.168.0.102	
att	- Channel	11 (2472 MHz)	Mask	255.255.255.0	
• *	•	Profile Settin	gs	×	
			100 %		
Get WPS profile successfully. Connecting					

Chapter 4 Tenda WLAN Utility

When you are installing the driver, select "Install driver and Tenda WLAN Utility" and the adapter driver and client utility will be installed. All functions of this adapter can be configured via Tenda's utility interface (In the

following text it is abbreviated as **UI**). Click shortcut on your PC's desktop to start the UI.

Click the Tenda UI icon located in the task bar to shift between STA (Station) mode and AP mode, and to exit UI.



Main icons description:



RF ON/OFF button, which is used to turn on/off the radio feature of the wireless adapter. It may be like



Key mark. Unlocked means the current wireless network is unsecured. It may be like or 6. 2

This icon indicates the current status of wireless connection in STA (Station mode). It may be like 3 or L. (L. indicates the wireless adapter works in AP mode.)

4.1 STA Mode

In STA (Station) mode, the wireless adapter serves as a wireless single receiver. A desktop computer installed with it can get a WiFi connection request, and connect to a wireless network freely.



The main interface of STA mode is shown as below:



Description about the function icons on the interface:

Icon	Description
0	Available Networks
	Click this icon to display list of the avaliable netwroks.
	Link Information
U	Click this icon to display the current client link status.
6	Profile Settings
U	Click this icon to go to profile configuration interface.
6	Advanced
B	Click this icon to go to the wireless mode (band) configuration interface.
(1)	About
	Click this icon to read more info about this driver.
2	Help
	Click this icon to read the user guide of this wireless USB adapter.

Available Networks

The available networks that the wireless adapter scanning are displayed here. Select a wireless network and the details of the network will be displayed in "AP Information".

B : Rescan button. Click it to update the	8 ≣	Availa	able Netw	orks			×
network list. Add to a Profile. Clcik it to add a wireless network to a profile.	Tenda_C8DB09 Tenda_D303_test Tenda_DCDD00 Tenda_F28CF8 Tenda_F45024 Tenda_gggggggggg Tenda_test_origial Tenda_wl_test_sv Tenda_zl TG-NET-ceshibu TG-NET_AA3D29 TGNET1 TGNET_2G tg_net_ssid2G_guest TP-LINK_A922	ტიტიტიტიტი <mark>დ</mark> იტიტიტი	11 11 4 9 6 11 11 11 13 6 1 2 2 6 11		9 () 9 () 9 () 9 () 9 () 9 () 9 () 9 ()	94% 89% 78% 37% 100% 83% 83% 100% 31% 89% 42% 37% 52% 73%	

AP Information

Tenda_zl MAC Address C8-3A-35-00-01-40 Encryption

SSID

Authentication WPA-PSK

AES

How to connect to an open (unencrypted) wireless network?

Select a wireless network which is unenc	rvpted 🧉					_
and click <i>v</i> icon to connect it.	-)	8 ⊞	Available Netw	orks		×
		Tenda_666666 Tenda_6A1144Y	杉 13 杉 4	690 690	100% 99%	^
		Tenda_888888		0 90	100%	
^L Key mark, which means the		Tenda_888888		B B D	78% 63%	
wireless network is secured		Tenda_ADBC66	k 4	000	83%	
whereas network is secured.		Tenda_B5C122 Tenda C8DA4F	10 9 11	© 9 0 ~⊾ ₿ 9 ∩	89% 100%	
		Tenda_C8DAC5	12		100%	
		Tenda_C8DB09			68%	
		Tenda_D303_test Tenda_E28CE8	10 2	Å Å Å	83% 100%	Ε
		Tenda_ggggggggg	ų 11	Ğ Ğ Ğ 🖞	100%	
		Tenda_test_origial	11	D D D D	89%	
		Tenda_zl	V> 13	0901	100%	-
		SSID Tenda_C8	DAC5 Authe	entication Open	(19)
		MAC Address C8-3A-35-	C8-DA-C5 Encry	ption NONE		~

How to connect to an encrypted wireless network?

Select a wireless network (encrypted) from the available networks list and click icon. It will direct you to the interface below.

	Profile Settings	×
Authentication Encryption	WPA2-PSK AES	

Authentication Knowledge:

WEP: Supports 10/26-bit Hex characters and 5/13-bit ASCII.

WPA-PSK: Supports 8-63-bit ASCII and 8-64-bit Hex characters.

WPA2-PSK: Supports 8-63-bit ASCII and 8-64-bit Hex characters.

WPA-PSK/WPA2-PSK: Supports 8-63-bit ASCII and 8-64 -bit hex characters.

The Hex characters consist of numbers 0~9 and letters a-f. ASCII characters consist of any Arabic digitals/letters and characters.

2. Click inco to enter the screen below where you are required to input wireless password.

	Profile Settings	×
WPA Preshared Key	*****	
	Show Password	



Link Information

Link information displays the connection info of the linked wireless network.

Example 2 Click it to view the linked wireless network info (SSID, MAC address, authentication, encryption, network type and channel). See below.



Throughput. Click it view the link quality, link speed, throughput and the signal strength that the wireless adapter receiving.

Link Information **୬ ∿** 🗒 Link Quality 100 % Signal Strength 1 -49 dBm Transmit Receive 14.4 Mbps Link Speed 72.2 Mbps Link Speed Throughput 0.000 Kbps Throughput 351.080 Kbps

E Statistics. Statistics screen displays the total Rx and Tx data packets, including transmitted, retransmitted and fail to receive ACK after all retries.





Profile is used to save particular wireless network parameters. When the adapter is successfully connected to a network, the name of this network will automatically be added here, which helps the adapter to quickly connect to this wireless network again. However, there is one exception, when you have set to the hidden SSID, the SSID that cannot be scanned, then you must manually connect by adding the profile name. The main interface is as shown below.

Tenda	🖉 🗐 🙆 🕤 ? 🗴
(°†°) SSID Rate Channel	►IP Address ►Mask
+ - 70	Profile List ×
Profile Information Profile Name SSID	Authentication Encryption

+ : Add. To create a new profile.

Delete. To delete the existing profile.

Edit. To modify the existing profile settings.

W: **Add WPS Profile**. It requires that the connecting wireless device supports the WPS function. WPS helps you to initiate wireless encryption and secure your wireless network quickly. See <u>Connect to WiFi (Via WPS)</u> for the detailed process.

Two network modes are available: **Infrastructure** (Connect to AP) and Ad-Hoc (Connect to other computers).

Tenda	○ ■ ○ ◎ ① ? ×
(°†°) Rate Channel	► IP Address ► Mask
	Profile Settings ×
Profile Name SSID Network Type	PROF1

Infrastructure

Infrastructure is an application mode that integrates the wired and wireless LAN architectures. When you are connecting the wireless adapter to an AP or a wireless router, select **Infrastructure** mode.





- 2. Select the network type as "Infrastructure".
- **3.** Define the profile. (Optional)
- **4.** Enter/Select the SSID you want to add it to a profile.
- 5. Click



6. Select the authentication and encryption of the

SSID added above. And click



7. Enter the wireless password of the SSID and





Added successfully!

Now you can click **(1)** to connect the wireless network via the profile.

Note

If the SSID of the wireless router or AP you wish to connect is hidden, then the wireless adapter cannot scan the SSID, thus you need to connect it by creating the corresponding profile.

+ - 20	9 9	Profile List		×
PROF1	Tenda_zl			\$
⊢Profile Informa Profile Name SSID	tion PROF1 Tenda_zl	Authentication Encryption	WPA2-PSK AES	

Ad-Hoc

Ad-Hoc is a special wireless mobile network application mode. All nodes in the network are equal. Usually it is used to do a resource sharing between LAN computers.

Using the Ad-hoc mode to establish a wireless network requires that each computer should be equipped with a wireless network adapter. By connecting these wireless adapters, computers are able to share the resources.

Note that Ad-Hoc feature is unavailable for Windows 8.

Instance

PC1 (Desktop) is sharing some files with PC2 (Desktop or Laptop). Now Ad-Hoc mode is working.



Process

1) Create a new Ad-hoc profile on the wireless adapter of PC1.





- **b.** Select Ad-Hoc Network Type.
- c. Define the profile. (Optional)
- **d.** Specify a network name in the SSID field to identify the wireless network, like **Tenda**.
- e. Configure the channel.
- f. Click

Profile Settings ×
Profile Name PROF1
SSID
Network Type C Infrastructure - Connect to AP
Ad Hoc - Connect to other computers
Channel 1

g. Configure the authentication and encryption

type and click



h. Configure the password for connection, and





After a profile is successfully added, the profile can be seen on the profile list, select it and icon on the lower right corner.

4 - Z	0	Profile List		×
PROF1	Tenda		<u>r</u>	4
Profile Inform Profile Name SSID	ation PROF1 Tenda	Authentication Encryption	WPA2-PSK AES	(?)

2) Configure a static IP address for the wireless adapter of PC1.

You must allocate a static IP for each wireless adapter to be connected in Ad-hoc mode.

a. Right click on the lower right corner of your computer's desktop and click Open Network and Sharing Center.

	Troubleshoot problems							
Open Network and Sharing Center								
ő	3	÷	^	×	8	þ	•	2015/5/20



c. Right click Wireless Network Connection and select Properties.



d. Double click Internet Protocol Version 4 (TCP/IPv4).

e. Configure an IP address as you like, such as 192.168.1.6. And click **OK** to save.

Networking Sharing					
Connect using:					
802.11n USB Wireless LAN Card					
Configure					
This connection uses the following items:					
QoS Packet Scheduler					
File and Printer Sharing for Microsoft Networks					
 ✓ Internet Protocol Version 6 (TCP/IPV6) ✓ Internet Protocol Version 4 (TCP/IPv4) 					
Link-Layer Topology Discovery Mapper I/O Driver					
🗵 📥 Unk-Layer Topology Discovery Responder					
Transmission Control Protocol/Internet Protocol. The default					
wide area network protocol that provides communication across diverse interconnected networks.					
OK Cancel					
Internet Protocol Version 4 (TCP/IPv4) Properties					
General					
General					
General You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.					
General You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings. O Obtain an IP address automatically					
General You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings. Obtain an IP address automatically Outain an IP address automatically					
General You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings. O Obtain an IP address automatically O Use the following IP address: IP address: 192.168.1.6					
General You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings. Obtain an IP address automatically Obtain an IP address: IP address: Subnet mask:					
General You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings. Obtain an IP address automatically Obtain an IP address automatically IP address: IP address: Subnet mask: Default gateway:					
General You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings. Obtain an IP address automatically O Use the following IP address: IP address: Subnet mask: Default gateway: Obtain DNS server address automatically					
General You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings. Obtain an IP address automatically Obtain an IP address automatically Out address: IP address: Subnet mask: Default gateway: Obtain DNS server address automatically Out on DNS server address automatically					
General You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings. Obtain an IP address automatically Obtain an IP address: IP address: IP address: Subnet mask: Default gateway: Obtain DNS server address automatically Obtain DNS server: .					
General You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings. Obtain an IP address automatically IP address: IP address: Subnet mask: Default gateway: Obtain DNS server address automatically Obtain DNS server: Alternate DNS server: .					

Advanced...

OK Cancel

3) Configure a static IP address for wireless adapter of PC2. Configure the wireless adapter of PC2 a static IP address which is in the same network segment with that of PC1. For example, IP address of PC1's wireless adapter is 192.168.1.6; then you should set that of PC2 to be 192.168.1.x (x can be any number from 2~255).

4) Connect the SSID you have set to PC1's wireless adapter. (Windows 7)

1. Left click **Network** (III) (III) or (III) icon on the lower right corner of desktop to display the available wireless network.



2. Select the wireless network you set (Here is **Tenda**), click **Conncet** and do as the screen prompts.



Connected successfully! And you can share the file with PC1.





This wireless adapter supports 2.4GHz.

Advanced ×	Tenda	⊘ ● © © € I ? ×
Wireless Mode 2.4 GHz Select a channel/ channel range 2.4 GHz 1:CH1-11	*SSID *Rate Channel	₽IP Address PMask
Apply		

About

This screen mainly displays the version information of the UI's different programs as well as Tenda's copyright statement.



? Help

Click **?** icon to read the user guide of this wireless adapter.



4.2 AP Mode

In AP mode, the wireless adapter servers as an access point to transmit wireless signal and create a wireless network, allowing other wireless clients to access the network.

Right click the UI icon on the taskbar of your computer desktop and select "Switch to AP Mode".



The main interface of AP mode is different from that of STA mode.



When it is switched to AP mode, the wireless adapter will automatically set its IP address as 192.168.123.1, and other clients that connected to this AP will automatically obtain the IP addresses of: 192.168.123.X (X is any integer from 2 to 254).



Here you can set the basic AP info of the wireless adapter, including SSID (Default: **SoftAPxx**), wireless mode, channel (Default: **1**), authentication type and encryption type.



🎯 Advanced

Here you can set the advanced parameters of the wireless adapter when working in AP mode.

No forwarding among wireless clients: This feature isolates the communications among the wireless clients that are connected to the wireless adapter (in AP mode).

Apply : Click this button to save and apply your settings.

Tel	nda	2	6) 🗈 🚺 ? ×		
(†*) & 	SSID PMode PChannel	SoftAP-40 2.4 GHz 1 (2412 MHz)	€IP €Mask	192. 168. 123. 1 255. 255. 255.0		
		Advanced		×		
	No forwarding among wireless clients					
Bea	Beacon Interval (ms) 100					
Тх	Tx Power 100 %					
Idle Time (60 - 3600) (s) 300						
		Apply				

Access Control

Access Control is based on the MAC address to allow or prohibit a specified client's access to this wireless network.

Access Policy:

- **Disable**: To disable the filter function.
- Allow All: To permit all hosts whose MAC addresses are included in the list to access the wireless network, other hosts whose MAC addresses have not been added to the list will be prohibited by default.
- Reject All: To prohibit all hosts whose MAC addresses are included in the list from accessing the wireless network, other hosts whose MAC addresses have not been added to the list will be permitted by default.

MAC Address: To input the client's MAC address you want to filter in this field.



: Add. To add the MAC address to the list.

E.

: Delete. To delete an existing MAC address in the list.

III: Remove All. To delete all clients' MAC address in the list.

How to set the wireless client access rights?

Instance

For your wireless network security, you set your own PC (whose MAC address is 44-37-E6-36-FB-25) to access the wireless network of the adapter.

Process

 1. Enter the MAC address of your own PC into the MAC address field.

 MAC Address
 4437E636FB25

	Access Control List	×
Access Policy	Allow All Disable	•
MAC Address	Reject All	6
Apply		



Connected Devices

When a client connects to this wireless adapter (AP mode) and has successfully obtained an IP address, the client's MAC address and Tx Rate can be recorded here.

Connected Devices				
MAC Address	Clien	Power Saving	Tx Rate (Mbits)	
38-BC-1A-88-D6-E8	2	Yes	N: MCS = 7, BW = 20	
38-BC-1A-AF-D1-1F	3	Yes	N: MCS = 7, BW = 20	
<pre></pre>				

4.3 STA+AP Mode

In STA+AP mode, the wireless adapter can serve as a client to receive wireless signal from a wireless router or AP; also it can serve as an AP to send wireless signal for other wireless clients connecting. Note that this mode is available for **windows 7 or higher version OS**.

 Right click icon on the taskbar and select Switch to STA+AP Mode.

	Launch Utility				
	Switch to STA + AP Mode				
	Switch to AP Mode				
	Exit				
) ;	S:07 5:07 2015/5/29				

2. Set the SSID and its password if the wireless adapter works as an AP. And click **OK** to apply the settings.

🧔 RaUI Message	×
Please enter SSID and Pr	re-Shared key.
SSID	Tenda_zl
WPA2 Pre-Shared Key	*******
	ОК

It comes to the main STA+AP mode interface.



Here you can configure AP parameters of this wireless adapter and check the connected wireless clients.



SSID: Configure the wireless network name of AP.

WPA2 Pre-Shared Key: Configure the wireless password.

ICS WAN: Select a WAN for Internet sharing.

Tenda	🕐 🍽 🗈 🕲 🕇 ? ×
(1) SSID	► IP Address
Channel	≱ Mask
2	AP X
SSID	Tenda_zl
WPA2 Pre-Shared Key	Show Password
ICS WAN	Marvell Yukon 88E8057 PCI-E Gigabit Etherne
IP Address	0.0.0.0 Apply

B : MAC Table

BSSID is the wireless MAC address of the AP. In MAC table, the MAC info of clients connecting to the AP will be displayed here.

8		AP	<
ſ	BSSID	02-0C-43-26-61-40	
	38-BC-1A-88-D6-E8	Authenticated	

Note

Other icon features are most similar to that of STA mode and AP mode. Please take the responding for references.

Appendix 1 Disable Other Wireless Adapter

Windows 7 is used as a guide to illustrate details. If you are using other operation systems, take that of Windows 7 for reference.

1. Right click "Computer" and select "Manage".



 On the Computer Management screen, select "Device Manager" — "Network adapters", and right click the network adapter you want to disable and click "Disable".



3. Click the "Yes" on the dialogue box to disable the network adapter.



Appendix 2 WPS Profile

WPS Profile settings in **Type PIN below** Method can help customize a profile.

	Profile Settings ×
	PIN Entry Method Type PIN below VPS Profile
	Pin Code 34579596
Customize the SSID as you like (Default SSID:	Profile Settings ×
ExRegNW266140); also, you can change the	
authentication and encryption.	SSID ExRegNW266140
Click to continue	BSSID 00-90-4C-AE-BC-9C
	Authentication WPA2-PSK
	Encryption AES
Customize the wireless password and click	Profile Settings ×
to continue.	WPA Preshared Key
	Show Password
Start PIN	Des Pla Catiliana
Click to PIN.	
	0 %

WPS status is not used

Start PIN

Connected successfully!



Note

Note that after you have set the WPS profile, the wireless info you have customized above will be applied to the remote AP (or router).

Appendix 3 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.



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

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.