

User Guide

Wireless USB Adapter Applies to W311M/ W311Ma/W311MI

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

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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.



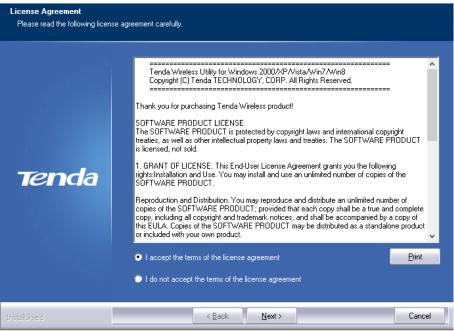
USER GUIDE

RUN

4

EXIT

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



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

Tenda Wireless LAN - InstallShiel	d Wizard		×
Setup Type Select the setup type that best s	suits your needs.		
	Choose to install		
	 Install driver and Tenda WLAN Utility Install driver only 		
Tenda			
InstallShield	< Back	Next >	Cancel

Installing...

Tenda Wireless LAN - InstallShield	Wizard	×
Setup Status		
	The InstallShield Wizard is installing Tenda Wireless LAN	
	Installing	
Tenda		
InstallShield		Cancel

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 - InstallShield	1 Wizard
	InstallShield Wizard Complete
	The InstallShield Wizard has successfully installed Tenda Wireless LAN. Before you can use the program, you must restart your computer.
	 Yes, I want to restart my computer now. No, I will restart my computer later.
Tenda	Remove any disks from their drives, and then click Finish to complete setup.
InstallShield	< Back 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

and click **i**con to continue.

1. Click icon to display the available wireless networks.

Tenda	[] [Available Networks	×
(1) > SSID → Rate > Channel	▶IP Address ▶Mask	85555 4 9 78% ADSL-D303-4 2 9 1 78% ArLink 1500 1 9 1 9 1 78% ArLink 1500 1 9 1 9 1 10% AirLink 2A9C30 1 9 1 9 1 10% AirLink 249C30 1 9 1 9 1 52% Chinal Net-Uq7r 1 9 0 1 52% harxon-450 1 9 0 1 31% HWIFI_Ronaldo 8 9 0 1 68% hyh_000065 2 9 0 73% 31% JY_luli_F3 5 9 0 10% 52% SY-12345 10 9 0 73% 53% Y_12345 10 9 0 47% 73% Y_12475 10 9 0 47% 73% Y_12345 10 9 0 47% 99% <td< th=""><th></th></td<>	

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

	Available Networks ×
Image: state	Tenda_wl_test_sv 11 10 9 10 89% Tenda_zl 13 10 9 100% tg-tg 1 10 9 100% TGNET1 1 10 9 57% TGNET_B00069 2 10 52% tp-CESHI 11 9 100%
Profile Settings ×	TP-LINK_F731 Image: Wight of the state of t
Authentication WPA2-PSK Encryption AES	w311r_pxy 13 10 100% xingxing 1 10 10% ZL_huangjeli 13 10% 100% zl_huangjeli01 10% 13 10%
	ZL_wangwenxiu 13 9 10% zl_xuhuanhuan2 13 9 10% AP Information SSID Tenda_zl Authentication WPA-PSK MAC Address C8-3A-35-11-55-98 Encryption AES

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

Tenda		Available Networks	×
	► IP Address ► Mask rofile Settings ×	Tenda_0335E4 & 8 3 9 1 1 37% Tenda_0338E8 & 3 9 1 73% 73% Tenda_118911 & 8 9 1 52% 10% 52% Tenda_233200 11 9 1 100% 57% 100% 57% Tenda_4708_2.4G 7 9 1 10 100% 57% Tenda_403080 6 9 1 100% 11 10% 11% 11% 11% 11% 10% 11% 11% 11% 11% 11% 11% 11% 11% <th></th>	
	Show Password	SSID Tenda_zi 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 9 100% SY_TEST 2 9 100% SY_tianchizhao 11 9 107 Tenda_000188 2 9 73% Tenda_00018A 2 9 107 Tenda_0033E0 13 9 100%	*
Link Information ×	Tenda_118911 I F I I S2% Tenda_125A40 I I I I I 68% Tenda_1A2BD0 I I I I I I 94%	ш
Status Tenda_zl <> C8-3A-35-00-01-40 Extra Info Link is Up [Tx Power: 100%] Authentication WPA2-PSK	Tenda_666666 I/2 13 I/2 I/2 100% Tenda_888888 I/2 6 I/2 I/2 89% Tenda_C8DA05 I/2 8 I/2 I/2 100% Tenda_C8DB09 I/2 13 I/2 I/2 100%	
Encryption AES Network Type Infrastructure Central Channel 11	Tenda_ggggggggg 11 9 10% V Tenda_zi 13 9 10% 10% AP Information SSID Tenda_zi 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:	÷7	-
Tenda_zl Internet access		
No Internet access		
Wireless Network Connec	tion 🔺	
Tenda_zl	Connected	
zl_xuhuanhuan2	.all	
TENDA_87EFA1	lte.	
Tenda_test_origial_D302	lite.	
ChinaNet-5386	lte.	
ASUS_Guest1	50	
1 2222	0.al	Ŧ
Open Network and	Sharing Center	

Windows 8

Step 1: Cl	lick the icon 🏙 on the bottom right corner of	your desktop.	P 🛍 🕪 😣	16:59 ▲ 2015/5/20
			Networks	
-	elect your wireless network from the list, click work on screen instructions.	Connect and	Wi-Fi 2	
			Tenda_163251	att
			Tenda_895421	ail
	Тір		Tenda_zl	att
	If you cannot find your wireless network		Connect auto	matically
	from the list, ensure the Airplane Mode is not enabled on your PC.			Connect
Step 3: When your wireless network is connected successfully, the				
following	following screen will appear.		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.)

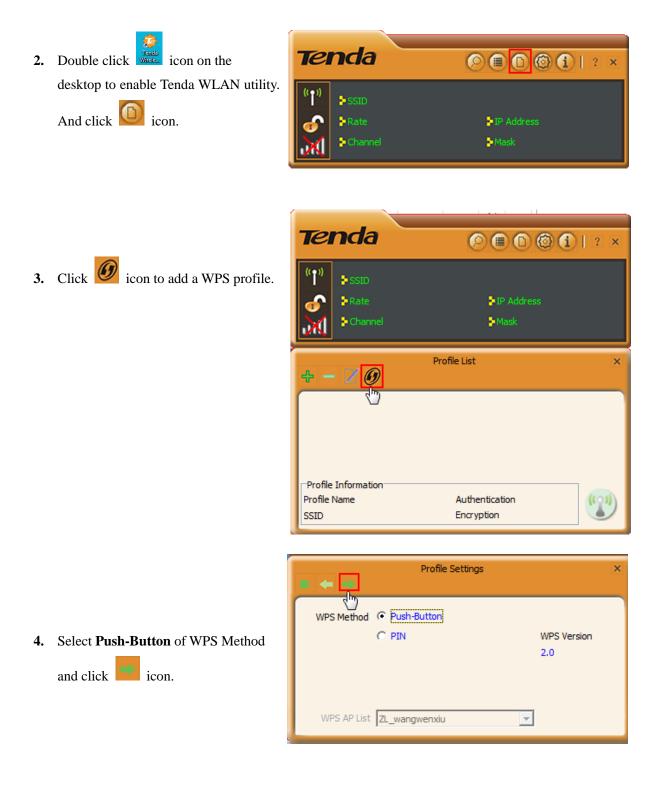
Process

- 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

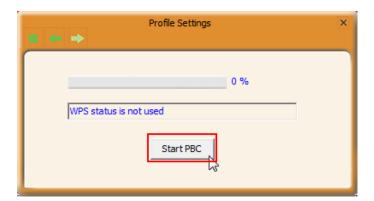
1. Enable the WPS (PBC) feature of the remote router. (The detailed operations see router manual.)



5. Click Start PBC

button to start PBC

connection.



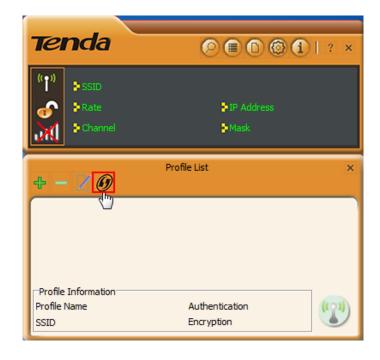
The wireless adapter gets an IP address from the remote AP/ router. Connection between the remote AP/ router and the wireless adapter is established successfully.

Tena	l a	(🔊 🚺 ? 🗙			
(°†°) 🕨 🕞	SID	Tenda_zl					
🔒 🕞		150.0 Mbps	P Address	192.168.0.102			
all 🗯		13 (2472 MHz)	Mask	255.255.255.0			
+ - Z	Profile List ×						
PROF1	PROF1 Tenda_zl						
Profile Infor							
Profile Name			entication WPA	2-PSK (())			
SSID	Tenda	_zi Encry	yption AES	•			

PIN Code Connection

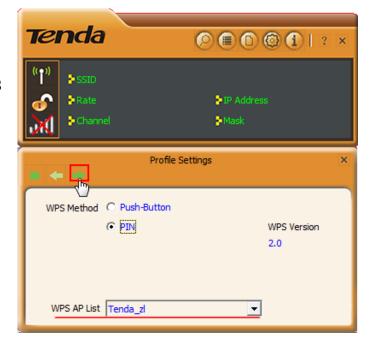
Process





 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	



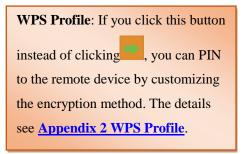
 The wireless adapter gets an IP address from the remote AP/ router. Connection between the remote AP/ router and the wireless adapter is established successfully.

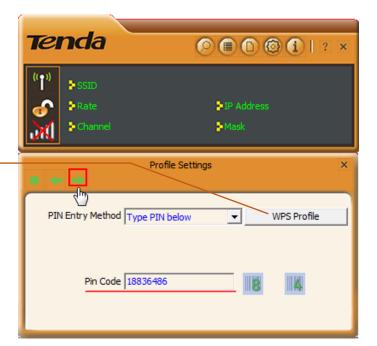


3. Type PIN below

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.

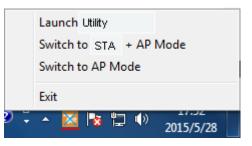


Chapter 4 Tenda WLAN Utility

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 wireless 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:



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



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

3 This icon indicates the current status of wireless connection in **STA** (Station mode). It may be like

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
	Click this icon to display the current client link status.
6	Profile Settings
	Click this icon to go to profile configuration interface.
6	Advanced
(B)	Click this icon to go to the wireless mode (band) configuration interface.
	About
	Click this icon to read more info about this driver.
?	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".

S : Rescan button. Click it to update the	Available Networks	×
network list. Add to a Profile. Clcik it to add a wireless network to a profile.	Tenda_C8DB09 11 9 9 94% Tenda_D303_test 11 9 89% Tenda_DCDD00 4 9 89% Tenda_F28CF8 9 9 78% Tenda_F45024 6 9 10% Tenda_gggggggggggggggggggggggggggggggggggg	•
	TG-NET_AA3D29 1 9 89% TGNET1 2 9 42% TGNET_2G 2 9 1 tg_net_ssid2G_guest 6 9 52% TP-LINK_A922 11 9 73%	4

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 unence and click icon to connect it.	Available Networks	×
	Tenda_666666 🤌 13 🚺 9 🕦 🖺 Tenda_6A1144Y 🔥 4 🚺 9 🕦 🦹	100% ^ 99%
	Tenda_888888 1 2 1 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	100% 78%
¹ Key mark, which means the	Tenda_888888 1 0 9 0	63%
wireless network is secured.	Tenda_ADBC66 😢 4 📮 9 🛈 👔 Tenda_B5C122 😢 9 🚺 9	83% 89%
	Tenda_C8DA4F 🕑 11 🚺 9 🚺 Tenda_C8DAC5 😥 12 🐼 9	100% 100%
	Tenda_C8DB09 🤌 2 🏮 9 🕦 Tenda_D303_test 🖄 11 🏮 9 🕦	68% 83%
	Tenda_F28CF8 🤌 2 🚺 9 🕅	100%
	Tenda_test_origial 🔣 11 🛛 🕒 🕦 🖺	89%
	Tenda_zi 😢 13 🚺 9 🕦 🕻	100% 💌
	SSID Tenda_C8DAC5 Authentication Open MAC Address C8-3A-35-C8-DA-C5 Encryption NONE	2

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		

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	



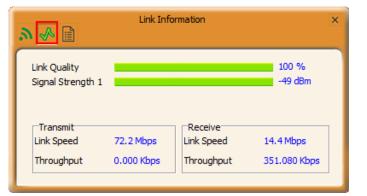
Link Information

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

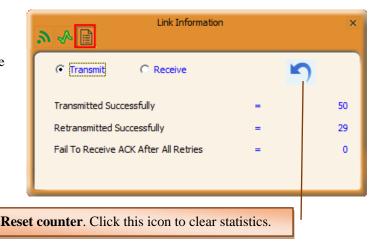
Example 2 Click it to view the linked wireless network info (SSID, MAC address, authentication, encryption, network type and channel). See below.



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



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	
(°†°) Rate Channel	► IP Address ► Mask
	Profile Settings ×
Profile Name SSID Network Type	PROF1

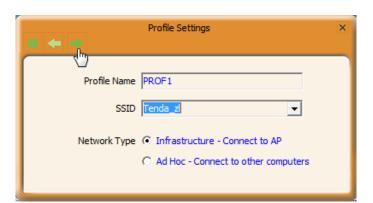
Infrastructure

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.



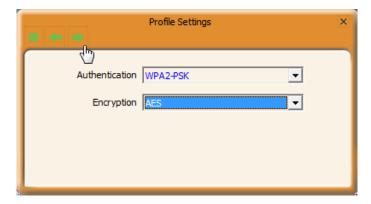


- 2. Select the network type as "Infrastructure".
- **3.** Define the profile. (Optional)
- **4.** Enter/Select the SSID you want to add it to a profile.
- 5. Click



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 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.

+ - Z		Profile List		×
PROF1	Tenda_zl		1	\$
□ Profile Informa	ation			1
		Authentication	WPA2-PSK	ton
Profile Name	PROF1	Autrentication		

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

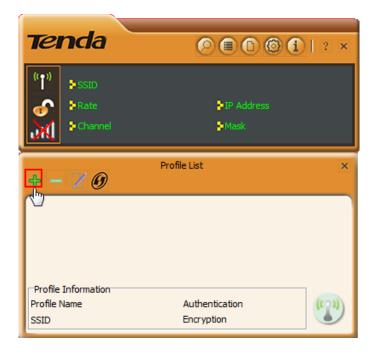
PC1 (Desktop) is sharing some files with PC2 (Desktop or Laptop). Now Ad-Hoc mode is working.



Process

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



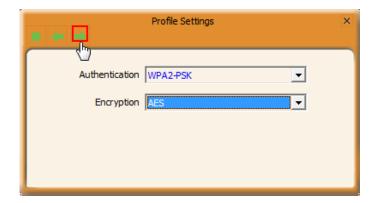


- **b.** Select Ad-Hoc Network Type.
- c. Define the profile. (Optional)
- **d.** Specify a network name in the SSID field to identify the wireless network, like **Tenda**.
- e. Configure the channel.
- f. Click

Profile Settings ×	:
Profile Name PROF1	
SSID	
Network Type C Infrastructure - Connect to AP	
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.

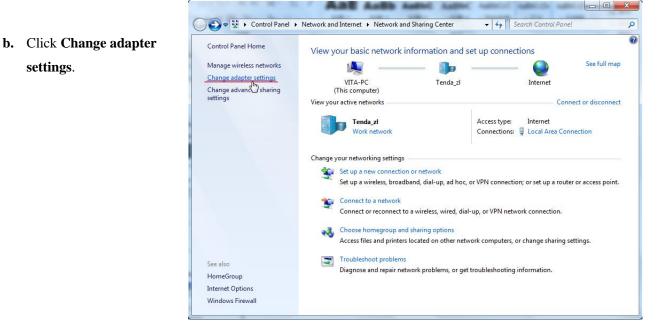
4 - Z	0	Profile List		×
PROF1	Tenda			4
Profile Informa Profile Name SSID	ation PROF1 Tenda	Authentication Encryption	WPA2-PSK AES	1

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

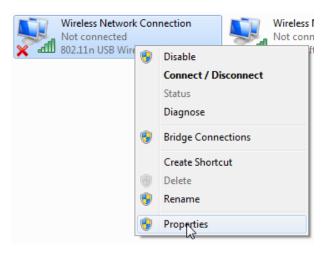
You must allocate a static IP for each wireless adapter to be connected in Ad-hoc mode.

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								
õ	2	Ŧ	^	×	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						
This connection uses the following items:						
Client for Microsoft Networks						
🗹 📮 QoS Packet Scheduler						
Eile and Printer Sharing for Microsoft Networks Anternet Protocol Version 6 (TCP/IPv6)						
 ✓ Internet Protocol Version 6 (TCP/IPV6) ✓ Internet Protocol Version 4 (TCP/IPv4) 						
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						
wide area network protocol that provides communication across diverse interconnected networks.						
OK Cancel						
Internet Protocol Version 4 (TCP/IPv4) Properties						
General						
You can get ID gettings assigned automatically if your petwork supports						
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.						
this capability. Otherwise, you need to ask your network administrator						
this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.						
this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings. Obtain an IP address automatically						
this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings. Obtain an IP address automatically Ouse the following IP address:						
this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings. Obtain an IP address automatically Ouse the following IP address: IP address: 192.168.1.6						
this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings. Obtain an IP address automatically Output of the following IP address: IP address: Subnet mask: IP address - 1 - 6 255 - 255 - 255 - 0						
this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings. Obtain an IP address automatically Use the following IP address: IP address: Subnet mask: Default gateway: 						
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						
this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings. Obtain an IP address automatically IP address: IP address: Default gateway: Obtain DNS server address automatically IP address: Default gateway: Obtain DNS server address automatically						

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.

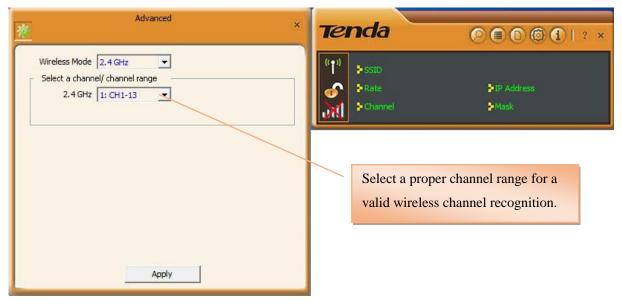


Connected successfully! And you can share the file with PC1.



Advanced

This section is used to set the wireless mode and country region code for the current wireless adapter. This wireless adapter supports 2.4GHz.



About

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

Tend a	(? ×	
((1)) SSID	Tenda_zl			
🔗 🗦 Rate	150.0 Mbps	FIP Address 192.168	3.0.102	
attl > Channel	13 (2472 MHz)	►Mask 255.25	5.255.0	
	About		X	
Version Utility	5.0.9.12	Date 2015-05-23		
Driver	5.1.21.0	Date 2015-02-02		
SDK	1, 1, 18, 10	Date 2014-09-16		
MAC Address	MAC Address 00-0C-43-26-61-40			
Tenda		oyright 2015, Tenda Inc. All rights reserved.		

? Help

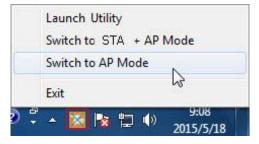
Click **?** icon to read the user guide of this wireless adapter.



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".



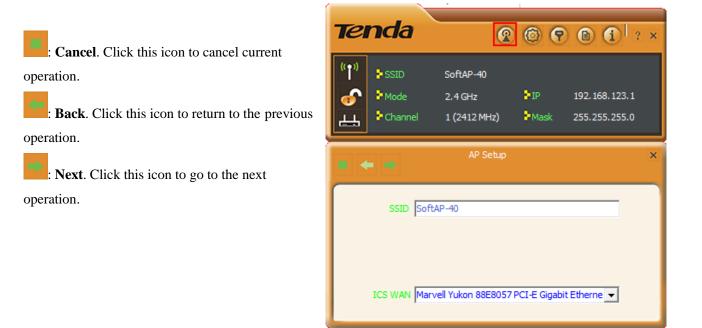
The main interface of AP mode is different from that of STA mode.



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.



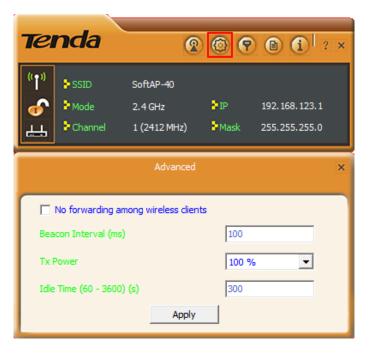
🙆 Advanced

Here you can set the advanced parameters of the wireless adapter when working in AP mode, such as No forwarding among wireless clients and TX power.

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

TX power: You can adjust the transmission power for the wireless adapter as you need.

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



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.

🖳 : D

: 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

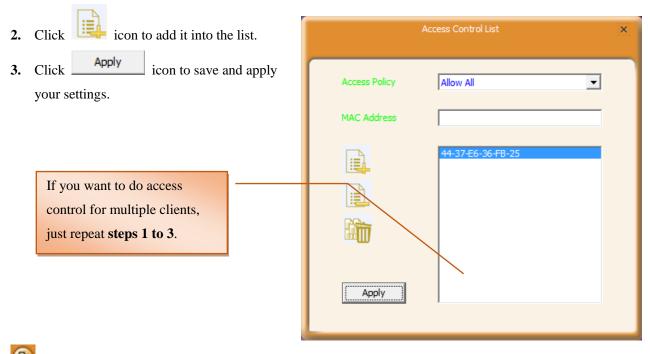
For your wireless network security, you set your own PC (whose MAC address is 44-37-E6-36-FB-25) to access the wireless network of the adapter.

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	Allow All Reject All	2
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.

	Conne	cted 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
•			•

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				
0 Ţ	▲ 🔯 🍢 🖗 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.

SSID Tenda_zl		
1		
WPA2 Pre-Shared Key		

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	🕐 🍽 🗈 🕲 🕇 ? ×
(°†°) SSID Rate	► IP Address
Channel	Mask
28	AP X
SSID	Tenda_zl
WPA2 Pre-Shared Key	*******
ICS WAN	Marvell Yukon 88E8057 PCI-E Gigabit Etherne 💌
IP Address	0.0.0.0 Apply

E : 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.

2	2 E	AP	<
ſ	BSSID	02-0C-43-26-61-40	
	MAC Table 38-BC-1A-88-D6-E8	Authenticated	
L			

.

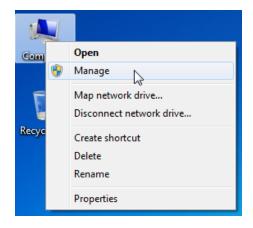
Note

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

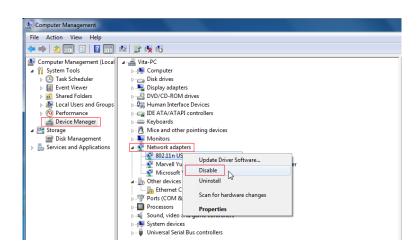
Appendix 1 Disable Other Wireless Adapter

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

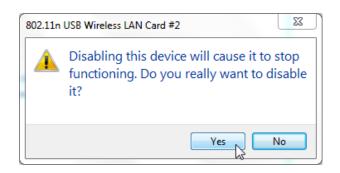
1. Right click "Computer" and select "Manage".



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

Start PIN

Connected successfully!

Tenda 🕑 🗐 🗊 🎯 🚹 | ? × ((|1)) ssid ExRegNW266140 Rate 150.0 Mbps PIP Address 192.168.0.102 1 - Channel Mask 255.255.255.0 13 (2472 MHz) ull Profile List × + - 🛛 🕖 ✓ PROF1 & 1 ExRegNW266140 Profile Information Profile Name PROF1 Authentication WPA2-PSK ((0)) ExRegNW266140 Encryption SSID AES

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.