

# user's manual



# MODECOM

# MC-106USB WLAN USB Adapter

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## Welcome

Thank you for purchasing the IEEE 802.11g Wireless USB Adapter. Wireless USB Adapter has an extra foundation which is designed to make Wireless USB Adapter get better signal when it is plugging into the foundation and can be easily move around. In addition, Wireless USB Adapter is backward compatible with 802.11b. When Wireless USB Adapter is connecting to the standard 802.11b or 802.11g APs or routers, it can perform much better than other standard stations.

Wireless USB Adapter supports higher data throughput than the IEEE802.11g standard (up to 54Mbps).

For the security of WLAN, Wireless USB Adapter supports 64/128-bit WEP data encryption which protects your wireless network from eavesdropping.

It also supports WPA/WPA2 which combines IEEE802.1x and TKIP technologies. Client users are required to authorize before accessing to APs or routers, and the data transmitted on the network is encrypted and decrypted by a dynamically changed secret key. Wireless USB Adapter supports WPA2 function which provides a stronger encryption through AES which is the most advanced WLAN solution for IEEE802.11i. Besides, Wireless USB Adapter supports WPS function which provides a stronger encryption and easier configuration through WPA2 which is the most advanced WLAN solution for IEEE802.11i.

## Package Contents

The Wireless USB Adapter package includes the following (note that your particular hardware and cables may look slightly different than shown below).





Quick Installation Guide AUTORUN CD

Wireless USB Adapter

## Wireless USB Adapter Overview

Wireless USB Adapter has the USB interface and LED below.



#### Interface

USB Interface: Connect the USB Interface to a USB port on your computer.

#### **LED** Description

LED: The LED stays lighted to indicate WLAN link established and active.

### Wireless USB Adapter Installation

The following instructions will guide you to through the process of installing the Wireless USB Adapter.

#### Windows Vista

#### Step 1:

As Windows starts it will detect that new hardware has been added, and start the " Found New Hardware Wizard ". Click on " Cancel ".



#### Step 2:

Please insert the AUTORUN CD into your CD-ROM drive.

The CD should auto-start, displaying the following window. If it does not start, click on Start – Run and type in CD: \ autorun.exe (where CD is the drive letter of your CD-ROM drive.) Click " Driver Installation ".



## WLAN USB Adapter

#### Step 3:

For Security reasons VISTA requires the installer program to have administrator priviledges so the new policy called " User Account Control " has been introduced in Windows VISTA. If UAC is enabled Windows pops up a window " User Account Control " Windows need your permission to continue. User needs to Click " Continue " to proceed with the installation.

#### Step 4:

Click" Next".

Choose Setup Language Select the language for the installation fro	m the choices below.	24
Basque Bulgarian Catalan Chinese (Simplified) Chinese (Traditional) Croatian Czech Darish Dutch English		E
Finnish French (Canadian) French (Standard) German Greek		-
ustallShield	< Back	xt≻ Cancel

#### Step 5:

Click" Next".



#### Step 6:

Click" Install".

REALTEK RTL8187B Wireless LAN Driver and Utility	<b>.</b>
REALTEK RTL8187B Wireless LAN Driver and Utility	
Click Install to begin the installation.	
If you want to review or change any of your installation settings, click Back. the wizard.	Click Cancel to exit
InstallShield	
Kack Install	Cancel

#### Step 7:

Click "Finish ".



### Windows XP

#### Step 1:

As Windows starts it will detect that new hardware has been added, and start the "Found New Hardware Wizard". Click on "Cancel".

Found New Hardware Wizard		
	Welcome to the Found New Hardware Wizard	
	Windows will search for current and updated software by looking on your computer, on the hardware installation CD, or on the Windows Update Web site (with your permission). <u>Read our privacy policy</u>	
	Can Windows connect to Windows Update to search for software?	
	<ul> <li>Yes, this time only</li> <li>Yes, now and every time I connect a device</li> <li>No, not this time</li> </ul>	
	Click Next to continue.	
	< Back Next > Cancel	

#### Step 2:

Please insert the AUTORUN CD into your CD-ROM drive.

The CD should auto-start, displaying the following window. If it does not start, click on Start – Run and type in CD: \ autorun.exe (where CD is the drive letter of your CD-ROM drive.) Click " Driver Installation ".

💈 WLAN USB Adapter	
User Manual	B HUNDALIN
	Exit

## WLAN USB Adapter

#### Step 3:

Click" Next".

REALTEK RTL8187B Wireless LAN - InstallShield Wizard	
Choose Setup Language Select the language for the installation from the choices below.	
Basque Bulgarian Catalan Chinese (Simplified) Chinese (Traditional) Croatian Czech Danish Dutch English Finnish French (Canadian) French (Standard) German Greek	
< Back Next >	Cancel

#### Step 4:

Click" Next".



#### Step 5:

Click " Install ".

REALTEK RTL8187B Wireless LAN Driver and Utility	×
REALTEK RTL8187B Wireless LAN Driver and Utility	
Click Install to begin the installation.	
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.	
InstallShield	
< Back Install Cancel	

#### Step 6:

Click" Finish".



#### Windows 2000

#### Step 1:

As Windows starts it will detect that new hardware has been added, and start the "Found New Hardware Wizard". Click on "Cancel".



#### Step 2:

Please insert the AUTORUN CD into your CD-ROM drive.

The CD should auto-start, displaying the following window. If it does not start, click on Start – Run and type in CD: \ autorun.exe (where CD is the drive letter of your CD-ROM drive.) Click " Driver Installation ".



#### Step 3:

Click" Next".

REALTEK RTL8187B Wireless LAN - InstallShield Wizard	
Choose Setup Language Select the language for the installation from the choices below.	
Basque Bulgarian Catalan Chinese (Simplified) Choinese (Traditional) Croatian Czech Danish Dutch English Fijnish	<u> </u>
French (Canadian) French (Standard) German Greek	•
< Back Next >	Cancel

#### Step 4:

Click " Next ".



#### Step 5:

Click" Install".

REALTEK RTL8187B Wireless LAN Driver and	Utility	×
REALTEK RTL8187B Wireless LAN Drive	er and Utility	
Click Install to begin the installation.		
If you want to review or change any of your ins the wizard.	stallation settings, click Back.	Click Cancel to exit
Textell'Chiefel		
ากรุงสมอกกราย	< Back Install	Cancel

#### Step 6:

Click" Finish".



#### Windows Me

#### Step 1:

As Windows starts it will detect that new hardware has been added, and start the "Found New Hardware Wizard". Click on "Cancel".

Add New Hardware Wiz	ard
	Windows has found the following new hardware: RTL8187B_WLAN_Adapter Windows can automatically search for and install software that supports your hardware. If your hardware came with installation media, insert it now and click Next. What would you like to do?
	< Back Next > Cancel

#### Step 2:

Please insert the AUTORUN CD into your CD-ROM drive.

The CD should auto-start, displaying the following window. If it does not start, click on Start – Run and type in CD: \ autorun.exe (where CD is the drive letter of your CD-ROM drive.) Click " Driver Installation ".

🖉 WLAN USB Adapter	
Driver Installation User Manual	Bunnus unter
	Exit

## WLAN USB Adapter

#### Step 3:

Click" Next".

REALTEK RTL8187B Wireless LAN - InstallShield Wizard	_ 🗆 🗙
Choose Setup Language Select the language for the installation from the choices below.	2
Basque Bulgarian Catalan Chinese (Simplified) Chinese (Traditional) Croatian Czech Danish Dutch English Finnish Finnish Finnish Finnish Finnish	
German Greek	•
InstallShield	Cancel

#### Step 4:

Click" Next".



Step 5:

Click " Install ".

REALTEK RTL8187B Wireless LAN Driver	and Utility	×
REALTEK RTL81878 Wireless LAN Drive	er and Utility	
Click Install to begin the installation.		
If you want to review or change any of your ins the wizard.	tallation settings, click Back. Cl	ick Cancel to exit
InstallShield		
	< <u>B</u> ack [Install	Cancel

#### Step 6:

Click " Finish ".

REALTEK RTL8187B Wireless LAN Driver and Utility		
	InstallShield Wizard Complete The InstallShield Wizard has successfully installed REALTEK RTL8187B Wireless LAN Driver and Utility. 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. Remove any disks from their drives, and then click Finish to complete setup.	
< <u>B</u> ack <b>[Finish</b> ] Cancel		

#### Windows 98SE

#### Step 1:

As Windows starts it will detect that new hardware has been added, and start the "Found New Hardware Wizard". Click on "Cancel".

Add New Hardware Wizard		
	This wizard searches for new drivers for:	
	RTL8187B_WLAN_Adapter	
	A device driver is a software program that makes a hardware device work.	
🗞 🍝		
<b>\$</b>		
	< Back Next > Cancel	

#### Step 2:

Please insert the AUTORUN CD into your CD-ROM drive.

The CD should auto-start, displaying the following window. If it does not start, click on Start – Run and type in CD: \ autorun.exe (where CD is the drive letter of your CD-ROM drive.) Click " Driver Installation ".

g WLAN USB Adapter	
Driver Installation User Manual	BWANDARD
	Exit

#### Step 3:

Click" Next".

REALTEK RTL8187B Wireless LAN - InstallShield Wizard	
Choose Setup Language Select the language for the installation from the choices below.	4
Basque Bulgarian Catalan Chinese (Simplified) Choinese (Traditional) Croatian Czech Danish Dutch English Finnish French (Canadian) French (Standard) German Greek	
Instell8hield	Next > Cancel

#### Step 4:

Click "Next".



#### Step 5:

Click" Install".



#### Step 6:

Click" Finish".



## Making a Basic Wireless Network Connection

For Windows XP users, your native Windows XP wireless support (Wireless Zero Configuration Service) has been disabled by default.

#### Infrastructure mode

An Infrastructure Mode network contains at least one wireless client and one wireless AP or router. This client con-

nects to Internet or intranet by communicating with this wireless AP or router.

#### Step 1:

Double click the 🚟 icon on your desktop to start the utility or 📶 in the task bar.

REALTEK RTL 81 87B Wireless LAN Utility		
Refresh(R) Set Wizard(S) Mode(M) View(V) About(A)		
B 💡 MyComputer	General Profile Available Network Advanced Status Statistics Wi-Fi Protect Setup	
	Chature Net Associated Throughout:	
	Status: Not Associated miloagriput.	
	Speeu: N/A Tyne: Infractructure	
	Encuration Al(A	
	CCD,	
	3315.	
	Signal Strength:	
	Link Quality:	
	Network Address:	
	Mac Address: 00:E0:4C:81:87:00	
	IP Address: 0.0.0.0	
	Subnet Mask: 0.0.0.0	
	Gateway:	
	ReNew IP	
Show Tray Icon	Disable Adapter	Class
Radio Off	D Windows Zero Config	Cluse
	- Windows Zerd Colling	
Ready		NUM

#### Step 2:

Click the "Available Network" button to scan available access points.

🖥 REALTEK RTL 81878 Wireless LAN Utility 📃 🗖 🔀		
Refresh(R) Set Wizard(S) Mode(M) View(V) About(A)		
E S MyComputer	General Profile Available Network Advanced Status Statistics Wi-Fi Protect Setup	
Realter R IL818/8 W	turilala tatural/a)	
	Available Network(s)	
	SSID Channel Encryption Network Authentication	Signal
	1°SVI_AP I WEP Unknown	80%
	1°ITCL-DLG70DAP 6 WEP Unknown	44%
	1 <sup>9</sup> WLAN_modecom_11 6 WEP Unknown	46%
	🔊 ssid3915 11 None Unknown	48%
	4	>
	Refresh Add to Profile	
	Note	
	Double click on item to join/create profile.	
<		
🗹 Show Tray Icon	Disable Adapter	Close
Radio Off	Windows Zero Config	
Ready		NUM

#### Step 3:

Double click on the SSID of AP that you are going to connect to and create profile that you are connecting to an open (Encryption is None) wireless network for example the SSID is ssid3915.

REALTEK RTL8187B Wireless LAN Utility			
Refresh(R) Set Wizard(S) Mode(M) View(V) About(A)			
🖃 🚽 MyComputer	General Profile Available Network Advanced Status Statistics Wi-Fi Protect Setup		
Realtek RTL8187B W			
	Available Network(s)		
	SSID Channel Encryption Network Authentication	Signal	
	1 WEP Unknown	80%	
	TOURCOM_12F 6 WEP UNKNOWN	84% 44%	
	1) WLAN_modecom_11 6 WEP Unknown	46%	
	1 <sup>20</sup> ssid3915 11 None Unknown	48%	
×	Refresh Add to Profile Note Double click on item to join/create profile.		
🗹 Show Tray Icon	Disable Adapter	Close	
Radio Off	Windows Zero Config		
Ready		NUM	

#### Step 4:

Click the " OK ".

Unsecured network		
(į)	You are connecting to the unsecured network " ssid3915 ". Information sent over this network is not encrypted and might be visible to other people.	
	OK Cancel	

### Step 5:

Click the " OK ".

Wireless Network Properties:		
Profile Name: ssid3915		
Network Name(SSID): ssid3915		
☐ This is a computer-to-computer(ad hoc) network; wireless access points are not used.	802.1x configure EAP TYPE :	
Channel: 11 (2462MHz) 🗸	GTC	
Wireless network security	Tunnel :	
This network requires a key for the following:		
Network Authentication: Open System 💙	Username :	
Data encryption: Disabled		
ASCII	Identity :	
Key index (advanced): 1 🗸	Password :	
Network key:		
Confirm network key:		
OK Cancel		

#### Step 6:

Now you are ready to use the Wireless Network to Internet or intranet.

🗧 REALTEK RTL 8187B Wireless LAN Utility		
Refresh(R) Set Wizard(S) Mod	le(M) View(V) About(A)	
MyComputer     O Realtak DTI 9197P W	General Profile Available Network Advanced Status Statistics Wi-Fi Protect Setup	
Reaker Kilotovo w	Status: Associated Throughput:	
	Speed: 11 Mbps	
	Type: Infrastructure	
	Encryption: None Tx:0.03%.Total:0.03%	
	SSID: ssid3915	
	Signal Strength:	
	Link Quality:	
	Network Address:	
	Mac Address: 00:E0:4C:81:87:00	
	IP Address: 192.168.1.3	
	Subnet Mask: 255.255.255.0	
	Gateway: 192.168.1.1	
	ReNew IP	
< >>		
Show Tray Icon	, Disable Adapter	Close
🔲 Radio Off	Windows Zero Config	
Ready		NUM

## WLAN USB Adapter

Note: This example is an open wireless network. If you are going to connect to a Wireless adapter with security protection, you will have to configure the encryption settings in this profile to be corresponding to the other wireless adapter. Please click on the "Network Authentication" drop-down list to select an authentication method, and then select a "Data encryption" type. Fill in each required blanks and click "OK".

Vireless Network Properties:		
Profile Name:	ssid3915	
Network Name(SSID):	ssid3915	
This is a computer-t access points are n	o-computer(ad hoc) network; wireless ot used.	802.1x configure EAP TYPE :
Channel:	11 (2462MHz) 🗸	бас
- Wireless network sec	urity	Tunnel :
This network requires	a key for the following:	
Netw	ork Authentication: Open System 🔽	Username :
	Data encryption: Shared Key	
ASCII PAS	SPHRASE WPA-PSK WPA2-PSK WPA 802.1X	Identity :
	WPA2 802.1X WEP 802.1x	Password :
Key index (advanced)	: 1 🖌	
Network key:		Certificate :
Confirm network key:		
ОК	Cancel	

## Introduction to the Wireless LAN Utility

Note: This management instruction uses Windows XP as the presumed operation system. Some functions are not supported in Windows 98se or Windows ME.

Starting the Wireless LAN Utility

🔽 Show Tray Icon	📃 Disable Adapter
🗌 Radio Off	🔲 Windows Zero Config

Checkboxes	Functions
Show Tray Icon	To disable or enable to show the utility icon on your system tray, which is in the notification area at the lower-right corner of the windows desktop.
Radio Off	To disable or enable to prevent this adapter form transmitting or receiving signals.
Disable Adapter	To disable or enable the wireless adapter.
Windows Zero Config	To disable or enable to use the native Windows XP wireless support (Wireless Zero Configuration Service).

## WLAN USB Adapter

## General

After starting the utility, the general page pops up This General tab provides the information of your current wireless network connection. You may click the Renew IP button to refresh those listed information.

REALTEK RTL8187B Win	eless LAN Utility	
Refresh(R) Set Wizard(S) Mod	le(M) View(V) About(A)	
🖃 😼 MyComputer	General Profile Available Network Advanced Status Statistics Wi-Fi Protect Setup	
Realtek R I L818/B W	Chatter Accessibled Throughput:	
	Status: Associated Hinoughput.	
	Speed: 48 Mops	
	Encryption: None Tx:0.00%, Total:0.00%	
	SSID: ssid3915	
	Signal Strength: 50%	
	Link Quality:	
	Network Address:	
	Mac Address: 00:E0:4C:81:87:00	
	IP Address: 192.168.1.3	
	Subnet Mask: 255.255.255.0	
	Gateway: 192.168.1.1	
	ReNew IP	
🗹 Show Tray Icon	🗌 Disable Adapter	Close
🔲 Radio Off	Windows Zero Config	
Ready		NUM

	Functions
Status	Check if the device associated to target network.
Speed	The current connection speed
Туре	Infrastructure or Ad-Hoc mode.
Encryption	The encryption mode for connecting to current network profile.
SSID	The SSID (network name) of the connected wireless network.
Signal Strength	Indicates the signal strength.
Link Quality	Indicates the link quality.
Network Address	Shows the current IP addresses settings.

## Profile

The Profile tab lists the preferred connections. You can click the buttons beside to do configure each connection.

REALTEK RTL8187B Win	eless LAN Utility	
Refresh(R) Set Wizard(S) Mod	e(M) View(V) About(A)	
Refresh(R) Set Wizard(S) Mod	e(M) View(V) About(A) General Profile Available Network Advanced Status Statistics Wi-Fi Prote Available Profile(s) Profile Name SSID Ssid3915 ssid3915	Add Add Remove Edit Duplicate Set Default
Show Tray Icon	Disable Adapter Windows Zero Config	Close
Ready		NUM

	Functions
Add	To add a connection profile.
Remove	To remove a connection profile.
Edit	To modify the configurations for a profile.
Duplicate	To make a copy of a profile.
Set Default	To select a profile as your default wireless connection.

## Available Network

This Available Network tab lists the reachable wireless network.

REALTEK RTL8187B Wir	eless LAN Utility	
Refresh(R) Set Wizard(S) Mod	le(M) View(V) About(A)	
🖃 🧋 MyComputer	General Profile Available Network Advanced Status Statistics WiFFi Protect Setup	
	Available Network(s)	
	SSID Channel Encryption Network Authentication	Signal
	1 WEP Unknown	76%
		49%
	Refresh Add to Profile Note Double click on item to join/create profile.	
🗹 Show Tray Icon	Disable Adapter	Close
🔲 Radio Off	Windows Zero Config	
Ready		NUM

	Functions
Refresh	To rescan available Wireless Networks.
Add to Profile	To add an available Wireless Network to your profile list.

### Advanced

This Advanced tab provides advanced configurations to this adapter. Every modification in this tab will be performed after clicking the Apply button.

To restore the default settings of the advanced tab, click the Set defaults button to perform restoring.

🕷 REALTEK RTL8187B Win	eless LAN Utility	
Refresh(R) Set Wizard(S) Mod	le(M) View(V) About(A)	
Y Computer     Y Computer     Y Realtek RTL81878 W	General     Profile     Available Network     Advanced     Status     Statistics     WiFi Protect Setup       Power Save     Fragment     Threshold     2346       Min     256     256     247       Min     Max     RTS Threshold     2347       Wireless Mode     0     217     227	432 432
	PSP XLink Mode XLink Enable WMM Parameter QoS Enable Power Save (APSD) Enable Set Defaults Apply	
🗹 Show Tray Icon	Disable Adapter	Close
Radio Off	Windows Zero Config	
Ready		NUM

Power Save	Functions
None	Disable Power saving function.
Min	Minimum power consumption.
Max	Maximum power consumption.

	Functions
Fragment Threshold	The maximum size of a packet that is going to be segmented and transmitted.
RTS Threshold	Select the RTS Threshold form 0 to 2432.
Wireless Mode	802.11b/g : Connect to a 802.11b/g network (2.4GHz/54Mbps). 802.11b : Connect to a 802.11b network (2.4GHz/11Mbps).
PSP XLink Mode	If you are using the PS2 or X-box for wireless connection.
WMM Parameter	Quality of Service for better streaming bandwidth control.

## Status

The Status tab shows the current connection status.

REALTEK RTL8187B Wir	eless LAN Utility	
Refresh(R) Set Wizard(S) Moo	Je(M) View(V) About(A)	
E S MyComputer	General Profile Available Network Advanced Status Statistics Wi-Fi Protect Setup	
- Kealtek R I L818/B W		
	Manufacturer = Realtek NDIS Driver Version = 5 1135 625 2008	
	Short Radio Header = Yes	
	Encryption = Disabled	
	Autnenticate = Open System Channel Set = ECC	
	MAC Address = 00:E0:4C:81:87:00	
	Data Rate (AUTO) = 54 Mbps	
	channel (rrequency) = 11 (2462 Minz)	
	Status = Associated	
	SSID = ssid3915 Network Twoe = Infractructure	
	Power Save Mode = None	
	Associated AP MAC = 00:30:B4:11:22:86	
	Up lime (nn:mm:ss) = 1:56:32	
Show Tray Icon	Disable Adapter	Close
🔲 Radio Off	Windows Zero Config	

## Statistics

The Statistics tab shows the transmission activity record. Clicking the "Reset" button recounts the values from zero.

REALTEK RTL8187B Wir	eless LAI	l Utilii	ty					
Refresh(R) Set Wizard(S) Mod	le(M) Viev	v(V) A	bout(A)					
😑 😼 MyComputer	General	Profile	Available Network	Advanced	Status	Statistics	Wi-Fi Protect Setup	
		Cou	inter Name				Value	
		Tx C	ж				4577	
		TXE	rror				100	
		Rx P	vicket Count				189	
		Rx R	etry				4	
		Rx I	CV Error				0	
						_		
							Reset	
Show Tray Icon			Disable	Adapter				Close
🗌 Radio Off			🔲 Windov	vs Zero Cor	nfig			

### Wi-Fi Protected Setup (WPS)

An easy and secure setup solution for Wi-Fi network.

🍮 REALTEK RTL8187B Wir	eless LAN Utility	
Refresh(R) Set Wizard(S) Mod	e(M) View(V) About(A)	
Realtek RTL8187B W	General Profile Available Network Advanced Status Statistics WrFi Protect Setup Wi-Fi Protected Setup (WPS) An easy and secure setup solution for Wi-Fi network	
	Pin Input Config (PIN) After pushing the PIN button.Please enter the PIN code into your AP,	
	Input PIN from AP PIN Code : 10390160 Pin Input Config (PIN)	
	Push Button After pushing the FBC button Please push the physical button on your AP or visual button on the WPS config page. Push Button Config (PBC)	
< >		
🗹 Show Tray Icon	<ul> <li>Disable Adapter</li> </ul>	Close
Radio Off	Windows Zero Config	
Ready		NUM

#### Push Button Config (PBC) Method

If both AP and users' Wireless LAN Utility has the physical button or visual button of Push Button Config (PBC), please follow steps below to complete the WPS.

#### Step 1:

Double click the icon on your desktop to start the utility or in the task bar and then click the "Wi-Fi Protected Setup" tab.

REALTEK RTL8187B Wire	eless LAN Utility	
Refresh(R) Set Wizard(S) Mod	e(M) View(V) About(A)	
Reakek RTL81876 W	General       Profile       Avalable Network       Advanced       Status       Status       WiFF Protected Setup         WI-FF Protected       Setup       (WPS)         An easy and secure setup solution for WI-FI network       Pin Input Config (PIN)         After pushing the PIN button.Please enter the PIN code into your AP.       Input PIN from AP       PIN Code : 70069846         Pin Input Config (PIN)       Pin Input Config (PIN)       Push Button         After pushing the PEC button.Please push the physical button on your AP or visual button on the WPS config page.       Push Button Config (PBC)	
Show Tray Icon	Disable Adapter	Cinse
🔲 Radio Off	Windows Zero Config	
Ready		NUM

#### Step 2:

Click on "Push Button Config (PBC) " button.

REALTEK RTL8187B Wi	reless LAN Utility	
Refresh(R) Set Wizard(S) Moo	de(M) View(V) About(A)	
MyComputer     Pealtek RTI 81878 W	General Profile Available Network Advanced Status Statistics Wi-Fi Protect Setup	
	Wi-Fi Protected Setup (WPS)	
	An easy and secure setup solution for Wi-Fi network	
	Pin Input Config (PIN) After pushing the PIN button.Please enter the PIN code into your AP.	
	V Input PIN from AP PIN Code: 25306637	
	Pin Input Config (PIN)	
	Push Button	
	After pushing the HBC button. Hease push the physical button on your AP or visual button on the WPS config page.	
	Push Button Config (PBC)	
Show Tray Icon		Close
🛄 Radio Off	Windows Zero Config	
	Wi-Fi Protected Setup - PBC method	
	Wi-Fi Protected Setup - PBC method	
	If there is more then one AP on the PBC mode, there will be [Session Overlap] Please using PIN method or wait for a while push the button again.	
	Status : Initial WPS	
	Complete :	
	Push Button Config (PBC) Cancel	

#### Step 3:

Now you are ready to use the Wireless Network to Internet or intranet.

🗟 REALTEK RTL8187B Wi	reless LAN Utility	
Refresh(R) Set Wizard(S) Mo	de(M) View(V) About(A)	
🖃 😼 MyComputer	General Profile Available Network Advanced Status Statistics Wi-Fi Protect Setup	
	Obstant American Throughput	
	Status: Associated Infloughput.	
	Speed: 54 Midps	
	Encryption: AES Tx:0.00%, Total:0.00%	
	SSID: 802.11g-SSID	
	Signal Strength: 94%	
	Link Quality:	
	Network Address:	
	Mac Address: 00:E0:40:81:87:00	
	IP Address: 192.168.1.101	
	Subnet Mask: 255.255.0.0	
	Gateway: 192.168.1.254	
	ReNew IP	
	J	
🖌 Show Tray Icon	Disable Adapter	Close
🔲 Radio Off	Windows Zero Config	

#### PIN Method 1

If users know AP's PIN code and the PIN code is 25306637, please follow steps below to complete the WPS.

Step 1: Double click the icon on your desktop to start the utility or in the task bar and then click the "Wi-Fi Protected Setup" tab.

🗟 REALTEK RTL8187B Wir	eless LAN Utility	
Refresh(R) Set Wizard(S) Mod	e(M) View(V) About(A)	
Reatek RTUSI878 W	General       Profile       Available Network       Advanced       Status       Status       WFF Protect Setup         WI-Fi       Protocted       Setup       (WPS)         An easy and secure setup solution for WI-Fi network         Pin Input Config (PIN)       After pushing the PIN button.Please enter the PIN code into your AP.         Input PIN from AP       PIN Code : 60442406         Pin Input Config (PIN)         Push Button         After pushing the PEC button.Please push the physical button on your AP or visual button on the WPS config page.         Push Button	
	<u></u>	
Show Tray Icon	Disable Adapter	Close
Radio Off	Windows Zero Config	

#### Step 2:

Check on the "Input PIN from AP" and enter the PIN code of AP 25306637 in the PIN Code field and then click on " Pin Input Config (PIN) " button.

REALTEK RTL8187B Wir	eless LAN Utility	
Refresh(R) Set Wizard(S) Mod	le(M) View(V) About(A)	
B WyComputer	General Profile Available Network Advanced Status Statistics Wi-Fi Protect Setup	
E ¥ MyConguter	General       Profile       Avalable Network       Advanced       Status       Status <td< td=""><td></td></td<>	
< >		
Show Tray Icon	Disable Adapter	Close
🗌 Radio Off	Windows Zero Config	

#### Step 3:

Select the desired WPS AP Name and then click on " Select " button.

Wi-Fi Protected Setu	p - Select AP	×
WPS AP Name RTL8186 802.11g-SSID Baudtec_12F	WPS AP MAC 00;13:33:A0:00:02 00;13:33:80;AB;CE 00;13:33:19:9B;BE	
Select	Refresh Cancel	

#### Step 4:

Now you are ready to use the Wireless Network to Internet or intranet.

REALTEK RTL8187B Win	eless LAN Utility	
Refresh(R) Set Wizard(S) Mod	e(M) View(V) About(A)	
B S MyComputer	General Profile Available Network Advanced Status Statistics Wi-Fi Protect Setup	
Realtek RTL81678 W	Status: Associated Speed: 54 Mbps Type: Infrastructure Encryption: AES SID: 802.119-SSID Signal Strength: Link Quality: Mac Address: 00:E0:4C:81:87:00 IP Address: 192.168.1.101 Subnet Mask: 255.255.0.0 Gateway: 192.168.1.254 ReNew IP	
C Chana Tana Lana		
Show Tray Icon	Uisable Adapter	Close
Radio Off	Windows Zero Config	
Ready		NUM

## PIN Method 2

If AP know users' PIN code and the PIN code is 41387047, please follow steps below to complete the WPS.

Step 1:

Double click the  $\frac{1}{2}$  icon on your desktop to start the utility or  $\frac{1}{2}$  in the task bar and then click the "Wi-Fi Protected Setup" tab.

REALTEK RTL8187B Wir	eless LAN Utility	
Refresh(R) Set Wizard(S) Mod	de(M) View(V) About(A)	
MyComputer     Pealtek RTI 81878 W	General Profile Available Network Advanced Status Statistics Wi-Fi Protect Setup	
	Wi-Fi Protected Setup (WPS)	
	An easy and secure setup solution for Wi-Fi network	
	Pin Input Config (PIN) After pushing the PIN button.Please enter the PIN code into your AP.	
	Input PIN from AP PIN Code: 41387047	
	Pin Input Config (PIN)	
	Push Button	
	After pushing the PBC button.Please push the physical button on your AP or visual button on the WPS config page.	
	Push Button Config (PBC)	
Change Trans Jacob	Disable Advates	
SHOW TRAY ICON		Close
🔲 Radio Off	Windows Zero Config	
Ready		NUM

#### Step 2:

Click on " Pin Input Config (PIN) " button.

REALTEK RTL8187B Wir	eless LAN Utility	
Refresh(R) Set Wizard(S) Mod	de(M) View(V) About(A)	
B S MyComputer	General Profile Available Network Advanced Status Statistics Wi-Fi Protect Setup	
	Wi Fi Ducto start Octors (WDO)	
	wi-Fi Protected Setup (WPS)	
	An easy and secure setup solution for Wi-Fi network	
	After pushing the PIN button.Please enter the PIN code into your AP.	
	✓ Input PIN from AP PIN Code : 25306637	
	Pin Input Config (PIN)	
	Push Button	
	After pushing the PBC button.Please push the physical button on your AP or visual button on the WPS config page.	
	Push Button Config (PBC)	
Show Tray Icon	Disable Adapter	Close
🗌 Radio Off	Windows Zero Config	

#### Step 3:

Click on "Yes" button.



#### Step 4:

Select the desired WPS AP Name and then click on "Select" button.

Wi-Fi P	rotected Se	etup - Select AP	×
WPS RTL8 902.1 Baudi	AP Name 186 Lig-SSID tec_12F	WPS AP MAC 00:13:33:AD00:02 00:13:33:19:90:00 00:13:33:19:90:00 00:13:33:19:90:00	
S	elect	Refresh Cancel	

#### Step 5:

Please enter the PIN Code into your AF

Wi-Fi Protected Setup - PIN method	×
Wi-Fi Protected Setup - PIN method	
Please enter the following PIN code into your AP .	
PIN Code : 41387047	
Status : [802.11g-SSID] WPS Protocol Communication	
Cancel	

#### Step 6:

Now you are ready to use the Wireless Network to Internet or intranet.

Refresh(R) Set Wizard(S) Mode(M) View(V) About(A)									
E 😸 MyComputer	General Profile Available Network Advanced Status Statistics Wi-Fi Protect Setup								
Reatek RTL81078 W	Leneral Prote Available Network Advanced Status Status Status Status Wr-F Protect Setup Status: Associated Speed: 54 Mbps Type: Infrastructure Encryption: AES Signal Strength: Link Quality: Mac Address: Mac Address: Mac Address: 00:E0:4C:81:87:00								
	IP Address: 192.168.1.101 Subnet Mark: 255.255.0.0								
	Gateway: 192.168.1.254								
	ReNew IP								
Show Tray Icon	Disable Adapter								
Radio Off	Windows Zero Config								

## Uninstall

Step 1:

Click " Start -> All Programs -> REALTEK RTL8187B Wireless LAN Utility -> Uninstall ".



#### Step 2:

Click "Yes".



#### Step 3:

Click" Finish".



## Troubleshooting

a while push the button again.

#### Session Overlap

If there is more then one AP on the PBC mode, there will be [Session Overlap]. Please using PIN method or wait for



#### TimeOut!!

If you see the message below while doing WPS!! Please retry again!



#### NO RTL8187B

If you see the message below, please plug in the Realtek RTL8187B Wireless 802.11b/g 54Mbps USB 2.0 Network Adapter to the USB port of PC.



#### **RTL8187B is Disconnected**

If you see the message below, please refer to the chapter Making a Basic Wireless Network Connection to make a Wireless Network Connection.

-	RTL	.8187	'B is D	)isconr	nected
৻	Ϋ́,	ul S	k 🥴	5:39	AM

#### **Cannot get IP Address from Wireless AP**

If the Wireless LAN Utility cannot get any the real IP Address from AP, please click on ReNew IP button to request IP Address again or configure the static IP Address for Realtek RTL8187B Wireless 802.11b/g 54Mbps USB 2.0 Network Adapter.



#### Environment protection:



This symbol on our product nameplates proves its compatibility with the EU Directive2002/96 concerning proper disposal of waste electric and electronic equipment (WEEE). By using the appropriate disposal systems you prevent the potential negative consequences of wrong product take-back that can pose risks to the environment and human health. The symbol indicates that this product must not be

disposed of with your other waste. You must hand it over to a designated collection point for the recycling of electrical and electronic equipment waste. The disposal of the product should obey all the specific Community waste management legislations. Contact your local city office, your waste disposal service or the place of purchase for more information on the collection. Weight of the device: 0,05 kg

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