# 802.11b/g/n WLAN USB Dongle





## **User's Manual**

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## Welcome

Thank you for purchasing the IEEE 802.11n 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/g. When Wireless USB Adapter is connecting to the standard 802.11b, 802.11g or 802.11n APs or routers, it can perform much better than other standard stations.

Wireless USB Adapter supports higher data throughput than the IEEE802.11n standard (up to 150Mbps).

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 WPA2 which is the most advanced WLAN solution through WPA2 which is the most advanced WLAN solution for IEEE802.11i.

## **Package Contents**

The Wireless USB Adapter package includes the following.

- 1. Wireless USB Adapter
- 2. Quick Installation Guide
- 3. AUTORUN CD

## **Wireless USB Adapter Overview**

Wireless USB Adapter has the USB interface, LED and WPS button 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.

## **WPS Button**

WPS Button: Press this button to do WPS with AP.

## 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** ".

2

#### 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 " Allow " to proceed with the installation.

User Account Control
In unidentified program wants access to your computer
Don't run the program unless you know where it's from or you've used it before.
setup.exe Unidentified Publisher
Cancel I don't know where this program is from or what it's for.
Allow I trust this program. I know where it's from or I've used it before.
🕑 Details
User Account Control helps stop unauthorized changes to your computer.

#### Step 4: Click " Next ".

REAL	TEK 11n USB Wireless LAN - InstallShield Wizard		
Cł	<b>boose Setup Language</b> Select the language for the installation from the choices below.		22
	Basque Bulgarian Catalan Chinese (Simplified) Croatian Croatian Czech Danish Dutch English Finnish French (Canadian) French (Standard) German Greek		
Instal	Shield < Back	Next >	Cancel

#### Step 5: Click " Next ".

REALTEK 11n USB Wireless LAN Driver and Utility	×
BEALTEK 11n USB Wireless LAN Driver Utility         The InstallShield Wizard will install REALTEK 11 Wireless LAN Driver and Utility on your computer continue, click Next.	r <b>and</b> n USB r. To
< Back Next >	Cancel

#### Step 6: Click " Install ".

REALTEK 11n USB Wireless LAN Driver and Utility
REALTEK 11n USB 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 Cancel

#### Step 7: Click " Finish ".



Step 8:

#### 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 **" ancel"** 

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** ".



#### Step 3: Click " Next ".

REALTEK 11n USB Wireless LAN - InstallShield Wizard	
<b>Choose Setup Language</b> Select the language for the installation from the choices below.	
Basque Bulgarian Catalan Chinese (Simplified) Chinese (Traditional) Croatian Czech Danish Dutch <b>English</b> Finnish French (Canadian) French (Standard) German Greek	
InstallShield	Cancel

#### Step 4: Click " Next ".



#### Step 5: Click " Install ".



#### 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** 

Found New Hardware Wizard	
	Welcome to the Found New Hardware Wizard This wizard helps you install a device driver for a hardware device.
	< 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** ".



#### Step 3: Click " Next ".

REALTEK 11n USB 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 <b>English</b> Finnish French (Canadian) French (Standard) German Greek	
InstallShield	Cancel

#### Step 4: Click " Next ".

REALTEK 11n USB Wireless LAN Driver and Utility		
	REALTEK 11n USB Wireless LAN Driver and Utility	
	The InstallShield Wizard will install REALTEK 11n USB Wireless LAN Driver and Utility on your computer. To continue, click Next.	
	< Back Next > Cancel	

#### Step 5: Click " Install ".



#### Step 6: Click " Finish ".

REALTEK 11n USB Wireless LAN Driver and Utility		
REALTER TIN USB WIPEless LA	InstallShield Wizard Complete The InstallShield Wizard has successfully installed REALTEK 11n USB Wireless LAN Driver and Utility. Click Finish to exit the wizard.	
	< Back Finish Cancel	

## 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 connects 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 11n USB W	'ireless LAN Utility	
Refresh(R) Mode(M) View(	(V) About(A)	
🖃 😼 MyComputer	General Profile Available Network Status Statistics Wi-Fi Protect Setup	
Realtek RTL818t		
	Status: Not Associated	
	Speed: N/A	
	Type: Infrastructure	
	Encryption: N/A	
	SSID:	
	Signal Strength:	
	Network Address:	
	ITE Address: 00:E0:4C:71:00:12	
	Subnet Mask; 0.0.0.0	
	Gateway:	
	ReNew IP	
		se
кеасу	NUM	

#### Step 2:

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

REALTEK 11n USB W	reless LAN Utility	
Refresh(R) Mode(M) View	V) About(A)	
🖃 💡 MyComputer	General Profile Available Network Status Statistics Wi-Fi Protect Setup	
Realtek RTL8188	Available Network(s)	
	SSID Channel Encryption Network Authentication	Signal 1
	1 None Unknown	56% Ir
	🖓 NetMASTER 1 None Unknown	80% Ir
	🖓 RTL867x-ADSL 1 None Unknown	48% Ir
	I <sup>®</sup> PRISM_WIRELESS 2 None Unknown	50% Ir
	I <sup>N</sup> Baudtec_12F 6 WEP Unknown	84% Ir
	👔 🖓 ITCL-DLG700AP 6 WEP Unknown	56% Ir
	IN263R4_11F 8 TKIP/AES WPA Pre-Shared Key	46% Ir
	🚺 🖓 RTL867x-stanley 9 None Unknown	82% Ir
	10 TKIP WPA Pre-Shared Key	80% Ir
	🔊 11n_AP_Router 11 None Unknown	92% Ir
		>
		1
	Refresh Add to Profile	
	Note	
	Double click on item to join/create profile.	
✓ Show Tray Icon ■ Radio Off	Disable Adapter	Close
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 11n\_AP\_Router.

🙈 REALTEK 11n USB W	reless LAN Util	ity					
Refresh(R) Mode(M) View	V) About(A)						
🖃 🦞 MyComputer	General Profile	Available Network	Statu	s Statistics V	/i-Fi Protect Setup		
Realtek RTL818	Available Netv	vork(s)					
	SSID	Cha	annel	Encryntion	Network Authentication	Signal	7
	I)MIDWAY		1	None	Unknown	56%	Ir
	NetMAST	FR	1	None	Unknown	80%	Ir
	1 <sup>90</sup> BTI 867x-	ADSI	1	None	Unknown	48%	Ir
	PRISM W	IRELESS	2	None	Unknown	50%	Ir
	( <sup>3)</sup> Baudtec	12F	6	WEP	Unknown	82%	Ir
	ITCL-DLG	 700AP	6	WEP	Unknown	58%	Ir
	10 TN263R4	11F	8	TKIP/AES	WPA Pre-Shared Kev	28%	Ir
	1 <sup>90</sup> RTL867x-		9	None	Unknown	78%	Ir
	<b>I</b> <sup>™</sup> ssidcdef		10	TKIP	WPA Pre-Shared Key	80%	Ir
	11n_AP_	Router	11	None	Unknown	92%	Ir
	<						>
			<u></u>				
		Refresh			Add to Profile		
	Note						
	Double c	lick on item to join	/creat	e profile.			
<ul> <li>✓ Show Tray Icon</li> <li>☐ Radio Off</li> </ul>		🔲 Disal	ble Ac	lapter		Close	•
Ready						NUM	1.::

#### Step 4: Click the " OK ".

Unsecured network				
(į)	You are connecting to the unsecured network " 11n_AP_Router ". Information sent over this network is not encrypted and might be visible to other people.			
	OK Cancel			

#### Step 5: Click the " OK ".

Wireless Network Properti	ies:			
Profile Name: 11	ln_AP_Router	-802.1x configure		
Network Name(SSID): 11	In_AP_Router	EAP TYPE :		
,		GTC		~
		Tunnel :	Privision Mode :	
access points are not us	omputer(ad hoc) network; wireless sed.		<u>~</u>	~
Channel: 11	l (2462MHz) 👽	Use saved user crede	ential	·····
		Username :		
-Wireless network security	/			
This network requires a k	key for the following:	Identity :		
Network	Authentication: Open System 🔽			
	Data encryption: Disabled 🛛 🔽	Domain :		
	IRASE	Password :		
Key index (advanced):	1 🕶	Certificate :		
Network key:				
		PAC : Auto	) Select PAC	
Confirm network key:				×
ОК	Cancel			

#### Step 6:

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

🙈 REALTEK 11n USB W	ireless LAN Utility	
Refresh(R) Mode(M) View	(V) About(A)	
WyComputer     Pealtek PTI 8185	General Profile Available Network Status Statistics Wi-Fi Protect Setup	
Nealesk Kiloiot		
	Status: Associated	
	Speed: Tx:150 Mbps Rx:150 Mbps	
	Type: Infrastructure	
	Encryption: None	
	SSID: 11n_AP_Router	
	Signal Strength: 94%	
	Link Quality:	
	Network Address:	
	MAC Address: 00:E0:4C:71:00:12	
	IP Address: 10.0.0.102	
	Gateway: 10.0.0.2	
	Cateway, 2000.0	
	ReNew IP	
✓ Snow Tray Icon		Close
Ready		NUM

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** ".

Wireless Network Prop	erties:		×
Profile Name:	11n_AP_Router	∩ 802.1x configure	
Network Name(SSID):	11n_AP_Router	EAP TYPE :	
		GTC	
		Tunnel : Privision Mode :	
This is a computer-to access points are no	o-computer(ad hoc) network; wireless t used.		
Channel:	11 (2462MHz) 🔽	Use saved user credential	~
		Username :	
CARGE IN THE SECOND STREET, SAVING	-		
- Wireless network secu	unity us key far the following:		
This network requires	a key for the following:	Identity :	
Netw	vork Authentication: Open System 💙		
	Data encryption: Shared Key	Domain :	
	WPA-PSK		
ASCII PAS	SPHRASE WPA2-PSK WPA 802 1X	Password :	
	WPA2 802.1X		
Mary Sandary Andrews and	WEP 802.1x	Cortificato :	
Key Index (advanced)	WPA2 CCKM	Certificate .	
Network key:			<u> </u>
		PAC : Auto Select PAC	
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	To disable or enable the wireless adapter.
Adapter	
Windows Zero	To disable or enable to use the native Windows XP wireless
Config	support (Wireless Zero Configuration Service).

### 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 11n USB Wireless LAN Utility		
Refresh(R) Mode(M) View	(V) About(A)	
🖃 💡 MyComputer	General Profile Available Network Status Statistics Wi-Fi Protect Setup	
Realtek RTL818t		
	Status: Associated	
	Speed: Tx:150 Mbps Rx:150 Mbps	
	Type: Infrastructure	
	Encryption: None	
	SSID: 11n AP Router	
	Signal Strength:	
	94%	
	Link Quality:	
	Network Address:	
	MAC Address: 00:E0:4C:71:00:12	
	IP Address: 10.0.0.102	
	Subnet Mask: 255.255.0	
	Gateway: 10.0.0.2	
	RoNow ID	
< N		
🗹 Show Tray Icon	Disable Adapter	Close
🔲 Radio Off		
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 11n USB Wireless LAN Utility					
Refresh(R) Mode(M) View(V) About(A)					
MyComputer     General Profile Available Network Status Statistics Wi-Fi Protect S     Available Profile(s)	ietup				
Profile Name SSID	Add				
	Remove				
	Edit				
	Duplicate				
	Set Default				
Snow Tray Icon     Disable Adapter     Radio Off	Close				
Ready	NUM 1,3				

	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 11n USB Wi	reless LAN Utility	
Refresh(R) Mode(M) View(	/) About(A)	
🖃 🦞 MyComputer	General Profile Available Network Status Statistics Wi-Fi Protect Setup	
	Available Network(s)	
	SSID Channel Encryption Network Authentication	Signal 1
	1 None Unknown	56% Ir
	I <sup>N</sup> NetMASTER 1 None Unknown	80% Ir
	I <sup>N</sup> RTL867x-ADSL 1 None Unknown	48% Ir
	1 <sup>0)</sup> PRISM_WIRELESS 2 None Unknown	50% Ir
	I <sup>N</sup> Baudtec_12F 6 WEP Unknown	84% Ir
	R <sup>9</sup> ITCL-DLG700AP 6 WEP Unknown	56% Ir
	P) TN263R4_11F 8 TKIP/AES WPA Pre-Shared Key	46% Ir
	<sup>2)</sup> RTL867x-stanley 9 None Unknown	82% Ir
	P ssidcdef 10 TKIP WPA Pre-Shared Key	80% Ir
	4°11n_AP_Router 11 None Unknown	92% Ir
		>
	Refresh Add to Profile	]
	Note Double click on item to join/create profile.	
✓ Show Tray Icon ☐ Radio Off	Disable Adapter	Close
Ready		NUM .

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

### **Status**

The **Status** tab shows the current connection status.

🌲 REALTEK 11n USB W	ireless LAN Utility	
Refresh(R) Mode(M) View	(V) About(A)	
Refresh(R) Mode(M) View	(Y) About(A)         General       Profile       Available Network       Status       Status       Status       Wi-Fi Protect Setup         Manufacturer       REALTEK         NDID Driver Version       5.1075.417.2009         Short Radio Header       NO         Encryption       Disabled         Authenticate       Open System         Channel Set       ETSI         MAC Address       00:E0:4C:71:00:12         Data Rate (AUTO)       TX:150 Mbps RX:150 Mbps         Channel (Frequency)       11 (2462 MHz)         Status       Associated         SSID       11n_AP_Router         Network Type       Infrastructure         Power Save Mode       None         Associated AP MAC       00:13:33:81:96:1E         Up Time (hh:mm:ss)       0:13:31	
V Show Tray Icon Radio Off	Disable Adapter	Close
Ready		NUM

### **Statistics**

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

🙈 REALTEK 11n USB Wire	less LAN Utility	
Refresh(R) Mode(M) View(V)	About(A)	
WyComputer     Sealtek RTL8188	ieneral    Profile    Available Network    Status    Statistics    Wi-Fi Protect Setup	
	Counter Name Value	
	Tx OK 244	
	Tx Error 0	
	Rx OK 51	
	Rx Packet Count 51	
	Rx Retry O	
	KX ICV EITOR U	
	· · · · · · · · · · · · · · · · · · ·	
	Decet	
	Keset	
Radio Off	Uisable Adapter	Close
Ready		NUM

## Wi-Fi Protected Setup (WPS)

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



#### 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 11n USB Wi	ireless LAN Utility	×
Refresh(R) Mode(M) View(	(V) About(A)	
Refresh(R) Mode(M) View MyComputer Realtek RTL8186	(v)       About(A)         General       Profile       Available Network       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.         PIN Code :       22916341         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	
Ready	NUM	

#### Step 2: Click on " Push Button Config (PBC) " button.

REALTEK 11n USB W	ireless LAN Utility
Refresh(R) Mode(M) View	V) About(A)
MyComputer	General Profile Available Network Status Statistics Wi-Fi Protect Setup
Concorrection of the second se	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.
	PIN Code : 22916341
	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
Show Tray Icon Radio Off Ready	Disable Adapter Close
Show Tray Icon Radio Off Ready	Disable Adapter      Close      NUM  ,;
Show Tray Icon Radio Off Ready Wi-Fi Protected	Disable Adapter Close
Show Tray Icon Radio Off Ready Wi-Fi Protected	Disable Adapter Close
Show Tray Icon Radio Off Ready Wi-Fi Protected Wi-F	Disable Adapter Close NUM Setup - PBC method
Show Tray Icon Ready Wi-Fi Protected Wi-Fi	Disable Adapter Close
<ul> <li>Show Tray Icon</li> <li>Radio Off</li> <li>Ready</li> <li>Wi-Fi Protected</li> <li>Wi-Fi</li> <li>If the</li> </ul>	Disable Adapter Close NUM Setup - PBC method  PBC method  PBC method  re is more then one AP on the PBC mode, there will be an Querlan I Place using DIM method or wait for a
<ul> <li>Show Tray Icon</li> <li>Radio Off</li> <li>Ready</li> <li>Wi-Fi Protected</li> <li>Wi-Fi</li> <li>If the [Sessi while</li> </ul>	Disable Adapter Close NUM Setup - PBC method i Protected Setup - PBC method re is more then one AP on the PBC mode, there will be on Overlap].Please using PIN method or wait for a push the button again.
<ul> <li>Show Tray Icon</li> <li>Radio Off</li> <li>Ready</li> <li>Wi-Fi Protected</li> <li>Wi-Fi</li> <li>If the [Sessi while</li> </ul>	Disable Adapter      Close      NUM      Setup - PBC method      i Protected Setup - PBC method  re is more then one AP on the PBC mode, there will be on Overlap].Please using PIN method or wait for a push the button again.
Show Tray Icon Ready Wi-Fi Protected Wi-Fi If the [Sessi while Status : WF	Disable Adapter      Close      NUM      Setup - PBC method      i Protected Setup - PBC method      re is more then one AP on the PBC mode, there will be     on Overlap].Please using PIN method or wait for a     push the button again.      S Protocol Communication
Show Tray Icon Ready Wi-Fi Protected Wi-Fi If the Status : WF	Disable Adapter Close NUM :: Setup - PBC method Setup - PBC method i Protected Setup - PBC method re is more then one AP on the PBC mode, there will be on Overlap].Please using PIN method or wait for a push the button again. 'S Protocol Communication
Show Tray Icon Ready Wi-Fi Protected Wi-Fi If the [Sessi while Status : WF	Disable Adapter Close NUM Cose NUM Setup - PBC method Cose Setup - PBC method re is more then one AP on the PBC mode, there will be on Overlap].Please using PIN method or wait for a push the button again.
Show Tray Icon Ready Wi-Fi Protected Wi-Fi If the [Sessi while Status : WF Complete :	Disable Adapter Close NUM :: Setup - PBC method i Protected Setup - PBC method re is more then one AP on the PBC mode, there will be on Overlap].Please using PIN method or wait for a push the button again. S Protocol Communication
Show Tray Icon Ready Wi-Fi Protected Wi-Fi If the [Sessi while Status : WF Complete :	Disable Adapter   Close     NUM     Setup - PBC method     i Protected Setup - PBC method   re is more then one AP on the PBC mode, there will be on Overlap]. Please using PIN method or wait for a push the button again. 'S Protocol Communication   'S Protocol Communication
Show Tray Icon Ready Wi-Fi Protected Wi-Fi If the [Sessi while Status : WF Complete :	Disable Adapter  Close  NUM  Setup - PBC method  Fre is more then one AP on the PBC mode, there will be on Overlap].Please using PIN method or wait for a push the button again.  S Protocol Communication  Correct  ten Correct  Correc
Show Tray Icon Ready  Wi-Fi Protected  Wi-Fi If the [Sessi while Status : WF Complete : Push But	Disable Adapter   Close     NUM     Setup - PBC method     i Protected Setup - PBC method   re is more then one AP on the PBC mode, there will be on Overlap].Please using PIN method or wait for a push the button again. rS Protocol Communication   S Protocol Communication     tton Config (PBC)     Close     NUM

#### Step 3:

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

REALTEK 11n USB W	ireless LAN Utility	
Refresh(R) Mode(M) View(	(V) About(A)	
B S MyComputer	General Profile Available Network Status Statistics Wi-Fi Protect Setup	
Realter R 11818t		
	Status: Associated	
	Speed: Tx:150 Mbps Rx:150 Mbps	
	Type: Infrastructure	
	Encryption: AES	
	SSID: WPS5218cd961e	
	Signal Strength:	
	Link Quality.	
	Manharan a dalaman	
	Network Address; MAC Address; DD:E0:46:71:00:12	
	IP Address: 10.0.0.102	
	Subnet Mask: 255.255.0	
	Gateway: 10.0.0.2	
	ReNew IP	_
🗹 Show Tray Icon	Disable Adapter	Close
🔲 Radio Off		
Ready		NUM

#### **PIN Method 2**

If AP know users' PIN code and the PIN code is 87489095, please follow steps below to complete the WPS.

#### Step 1:

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

🚨 REALTEK 11n USB W	ireless LAN Utility	
Refresh(R) Mode(M) View(	(V) About(A)	
Refresh(R) Mode(M) View	(V)       About(A)         General       Profile       Available Network       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.         PIN Code :       87489095         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
		0.054
Reauy	P	

#### Step 2: Click on " Pin Input Config (PIN) " button.

REALTEK 11n USB Wir	eless LAN Utility	
Refresh(R) Mode(M) View(V)	) About(A)	
MyComputer	General Profile Available Network 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. PIN Code : 87489095 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 Radio Off Ready	Disable Adapter	

#### Step 3:

Click on " Yes " button.



#### Step 4:

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

Wi-Fi Protected Setup -	Select AP	X
WPS AP Name ssidcdef RTL867x-stanley NetMASTER Baudtec_12F TN263R4_11F PRISM_WIRELESS 11n_AP_Router	WPS AP MAC 02:10:91:18:BF:01 00:13:33:00:00:91 00:E0:4C:86:70:01 00:13:33:19:9B:BE 00:13:33:19:9C:40 00:30:B4:11:22:33 00:13:33:81:96:1E	
Select	Refresh Cancel	

#### Step 5:

Please enter the PIN Code into your AP.



#### Step 6:

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

🙈 REALTEK 11n USB Wi	ireless LAN Utility	
Refresh(R) Mode(M) View(	(V) About(A)	
🖃 😼 MyComputer	General Profile Available Network Status Statistics Wi-Fi Protect Setup	
Realtek R I L 818t		
	Status: Associated	
	Speed: Tx:150 Mbps Rx:150 Mbps	
	Type: Infrastructure	
	Encryption: AES	
	SSID: WPS5fc199961e	
	Signal Strength:	
	Lisk Quality:	
	100%	
	Network Address:	
	IP Address: 10.0.10	
	Subnet Mask: 255.255.0	
	Gateway: 10.0.0.2	
	Dehlew ID	
	Renew IP	
<		
🔽 Show Tray Icon	Disable Adapter	Close
🗌 Radio Off		
Ready	I N	UM

## Uninstall

Step 1:

Click " Start -> All Programs -> REALTEK 11n USB Wireless LAN Utility -> Uninstall ".

GA-G31M-	ES2L		
Internet Internet Explorer E-mail Outlook Express	<ul> <li>Set Program Access and Defaults</li> <li>Windows Catalog</li> <li>Windows Update</li> </ul>		
MSN	m Accessories	•	
Windows Media Playe	m GIGABYTE	•	
Windows Messenger	REALTEK 11n USB Wireless LAN Utility		REALTEK 11n USB Wireless LAN Utility
Files and Settings Tra	Internet Explorer     MSN		
Shortcut to HprSnap	Remote Assistance     Windows Media Player		
All Programs 🜔	<ul> <li>Windows Messenger</li> <li>Windows Movie Maker</li> </ul>		
	Log Off 🚺 Turn Off Compute		
🤩 start			

Step 2:

Click " Yes ".

REALTEK 11n USB Wireless LAN Driver and Utility				
2	Do you want to completely remove the selected application and all of its features?			
	Yes No			

#### Step 3: Click " Finish ".

REALTEK 11n USB Wireless LAN Driver and Utility				
	Uninstall Complete InstallShield Wizard has finished uninstalling REALTEK 11n USB Wireless LAN Driver and Utility.			
	< Back Finish Cancel			

## Troubleshooting

## **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 a while push the button again.



## TimeOut!!

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



### NO REALTEK 11n USB Wireless LAN

If you see the message below, please plug in the **REALTEK 11n USB Wireless LAN** to the USB port of PC.



### **REALTEK 11n USB Wireless LAN 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.

```
REALTEK 11n USB Wireless LAN is Disconnected
```

## 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 11n USB Wireless LAN**.

🙁 REALTEK 11n USB Wireless LAN Utility							
Refresh(R) Mode(M) View(V) About(A)							
🖃 😼 MyComputer	General Profile Available Network Status Statistics Wi-Fi Protect Setup						
Realtek RTL818							
	Status: Associated						
	Speed: Tx:150 Mbps Rx:150 Mbps						
	Type: Infrastructure						
	Encryption: None						
	SCID: W/PCSf-100061e						
	Signal Strength:94%						
	Link Quality:						
	Network Address:						
	MAC Address: 00:E0:4C:71:00:12						
	IP Address: 169.254.222.174						
	Subnet Mask: 255.255.0.0						
	Gateway:						
	ReNew IP						
< >							
Show Trav Icon	Disable Adapter	Close					
Radio Off							
Ready		NUM					

## FEDERAL COMMUNICATIONS COMMISSION INTERFERENCE STATEMENT

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 or more 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.

#### CAUTION:

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

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.

#### FCC RF Radiation Exposure Statement

This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provide with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.

#### Warning

To maintain compliance with FCC's RF exposure guidelines, this equipment should be installed and operated with minimum distance 20cm between the radiator and your body. Use only the supplied antenna.

#### Caution

No.	Manufacturer	Part No.	Peak Gain	Antenna Type			
1	KINSUN	6642-2.4G-SMA	5 dBi in 2.4GHz	- Pedestal Dipole			
2	KINSUN	6602-2.4G-SMA	2 dBi in 2.4GHz				
3	KINSUN	6640103041-15M	2.69 dBi in 2.4GHz				
4	Cortec	AB2400-4809RS	2 dBi in 2.4GHz				

Antenna List for this device

This device is only support above antennas. Haphazard change other antenna is not permit and will cause harmful interference.