# 802.11 b/g/n 1T1R Wireless USB Adapter

User's Manual

#### **Federal Communication 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 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.

#### **Country Code Statement**

For product available in the USA/Canada market, only channel 1~11 can be operated. Selection of other channels is not possible.

To maintain compliance with FCC RF exposure requirements, use only belt-clips, holsters or similar accessories that do not contain metallic components in its assembly. The use of accessories that do not satisfy these requirements may not comply with FCC RF exposure requirements, and should be avoided.

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 transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

#### Federal Communication Commission (FCC) Radiation Exposure Statement

This EUT is compliance with SAR for general population/uncontrolled exposure limits in ANSI/IEEE C95.1-1999 and had been tested in accordance with the measurement methods and procedures specified in OET Bulletin 65 Supplement C. This equipment should be installed and operated with minimum distance 0.5cm between the radiator & your body.

#### **CE Statement:**

Hereby, AboCom, declares that this device is in compliance with the essential requirement and other relevant provisions of the R&TTE Driective 1999/5/EC.

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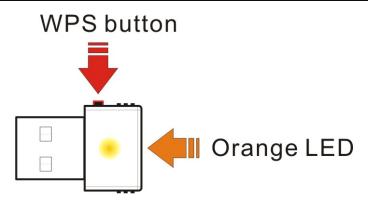
# Chapter 1: Introduction

WU5502 measures just around 15 mm long and 15mm wide that make it hold the distinction of being the smallest USB dongle in the world at present. WU5502 give mobile workers the freedom of staying connected to the network while roaming around a building or multiple buildings maintaining access to the Internet, e-mail, networked applications with the best convenience in narrow or crowded space for it's ultra micro size.WU5502 is expected to be able to reach 150Mbps, which is relatively lower than normal, but still far more than sufficient to receive media streaming to the from access point.

## **Features**

- □ 1T1R Mode with 150Mbps PHY Rate
- Complies with IEEE 802.11n and IEEE 802.11 b/g standards
- Supports WEP 64/128, WPA, WPA2
- □ Supports USB 2.0 interface
- □ Compatible with Microsoft Windows Vista, XP, 2000
- Linux Fedora12(2.6.31.5)
- Depresentation Physical Dimension: 1.9cm, most compact size!

## **Physical Details**



WPS button	To press the physical WPS button on the Wireless USB Adapter once, then the LED will start to flash. Please make a connection with another WPS supported device within <b>2</b> minutes.
LED	When the WPS button be pressed the LED will start to flash, and the Wireless USB Adapter is ready to make a connection.

# **Chapter 2: Installation**

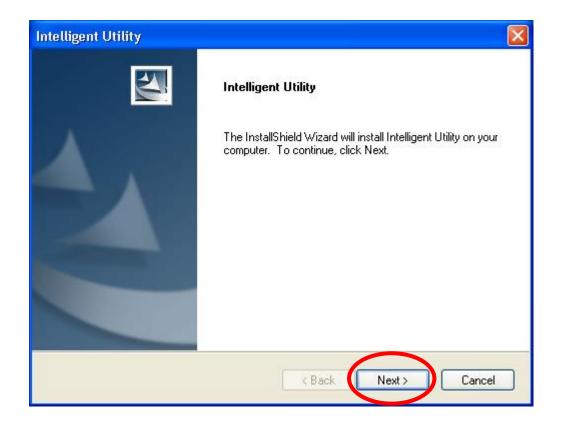
## For Windows 2000/XP

### **Install Software**

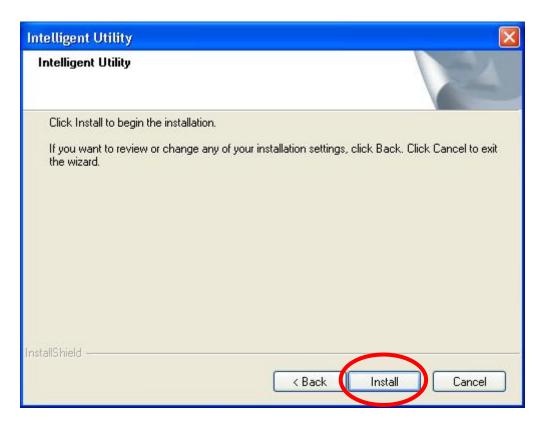
#### Note:

## Do not insert the Wireless USB Adapter into the computer until the InstallShield Wizard finished installing.

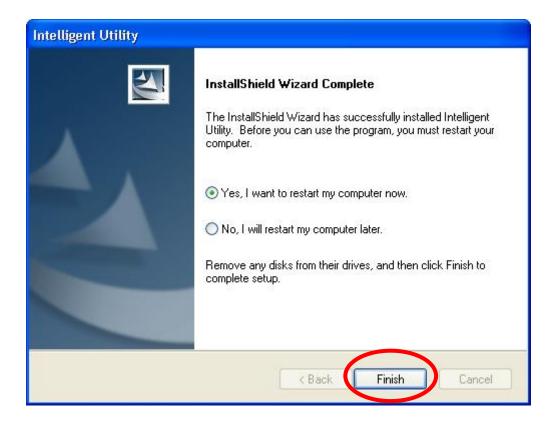
1. Exit all Windows programs. Insert the included Installation CD into the computer. The CD-ROM will run automatically. Please click **Next** to process the installation.



2. When prompt to the following message, please click **Install** to begin the installation.



3. When the following screen appears, click **Finish** to restart the computer to complete the software installation.



## Install Hardware

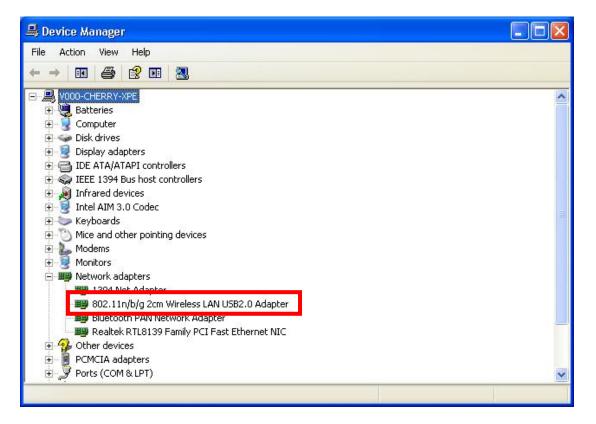
#### Note:

#### Insert the Wireless USB Adapter when finished software installation.

Insert the Wireless USB Adapter into the USB Port of the computer. The system will automatically detect the new hardware.

## Verification

To verify the device is active in the computer. Go to **Start > Control Panel > System > Hardware> Device Manager**. Expand the **Network adapters** category. If the **802.11n/b/g 2cm Wireless LAN USB2.0 Adapter** is listed here, it means that the device is properly installed and enabled.



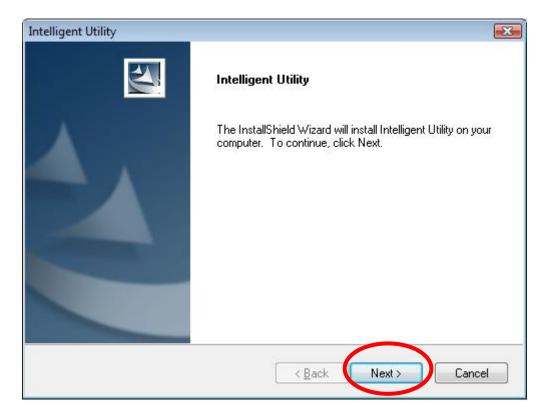
## For Windows Vista

## Install Software

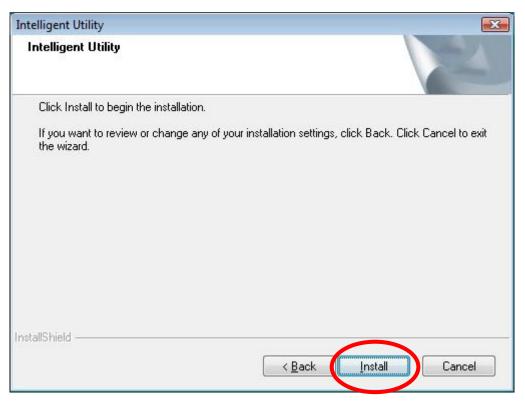
#### Note:

## Do not insert the Wireless USB Adapter into the computer until the InstallShield Wizard finished installing.

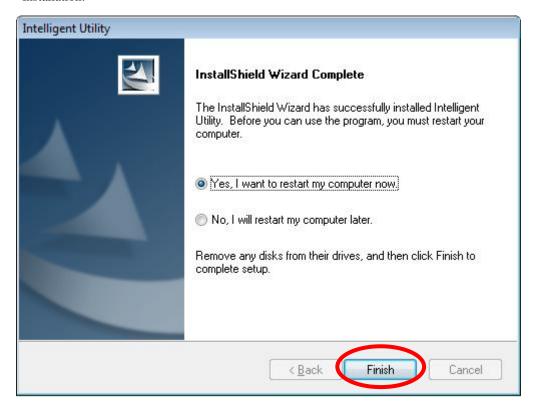
1. Exit all Windows programs. Insert the included Installation CD into the computer. The CD-ROM will run automatically. Please click **Next** to process the installation.



2. When prompt to the following message, please click **Install** to begin the installation.



3. When the following screen appears, click **Finish** to restart the computer to complete the software installation.



## Install Hardware

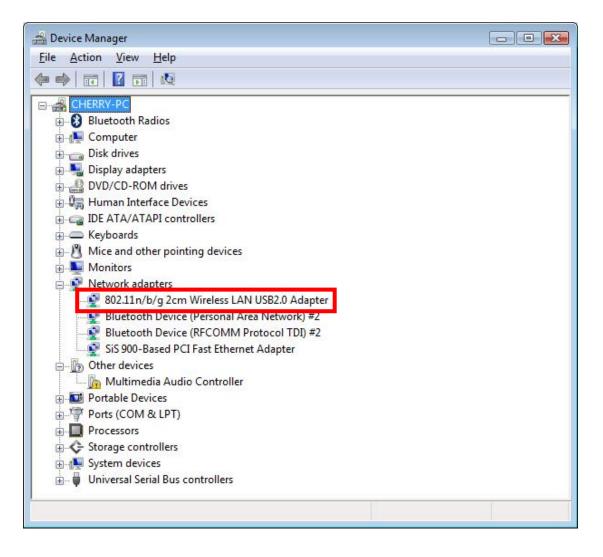
#### Note:

#### Insert the Wireless USB Adapter when finished software installation.

Insert the Wireless USB Adapter into the USB Port of the computer. The system will automatically detect the new hardware.

## Verification

To verify the device is active in the computer. Go to **Start >Control Panel > Hardware and Sound > Device Manager**. Expand the **Network adapters** category. If the **802.11n/b/g 2cm Wireless LAN USB2.0 Adapter** is listed here, it means that the device is properly installed and enabled.



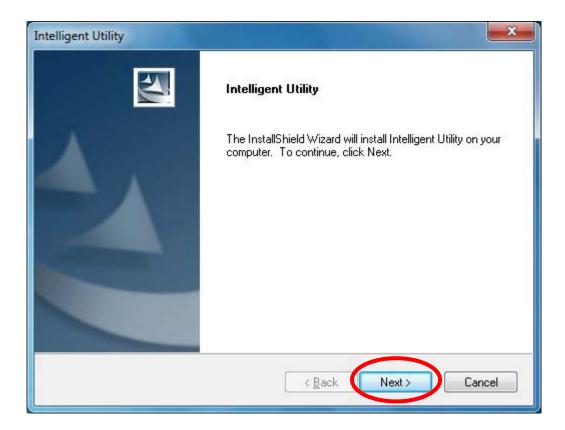
## For Windows 7

## Install Software

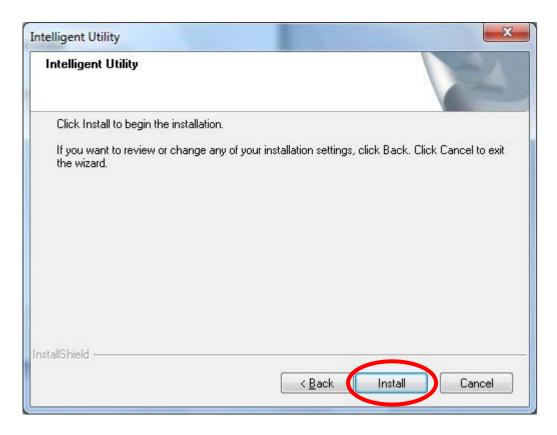
#### Note:

## Do not insert the Wireless USB Adapter into the computer until the InstallShield Wizard finished installing.

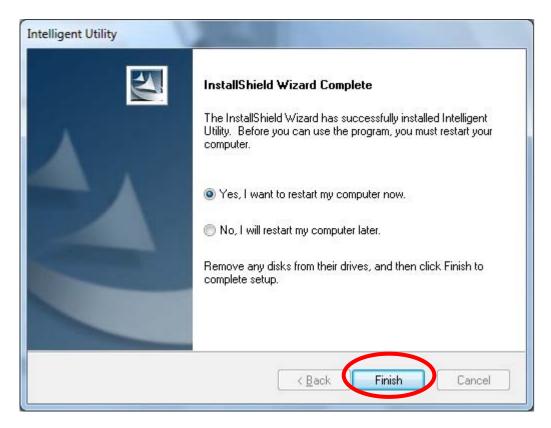
1. Exit all Windows programs. Insert the included Installation CD into the computer. The CD-ROM will run automatically. Please click **Next** to process the installation.



2. When prompt to the following message, please click Install to begin the installation



3. When the following screen appears, click **Finish** to restart the computer to complete the software installation.



## Install Hardware

#### Note:

#### Insert the Wireless USB Adapter when finished software installation.

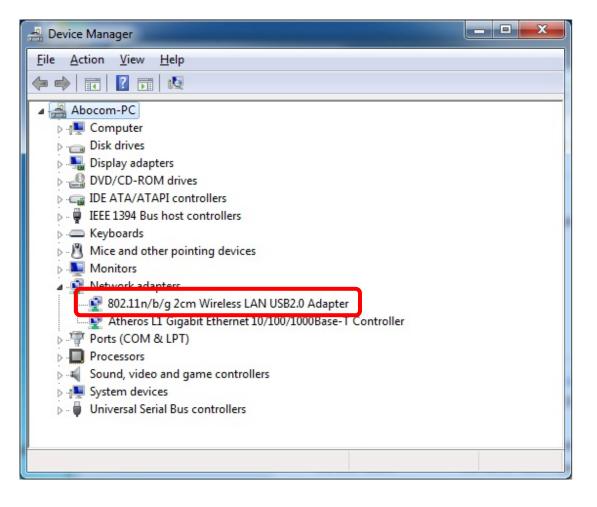
Insert the Wireless USB Adapter into the USB Port of the computer. The system will automatically detect the new hardware.

### Verification

To verify the device is active in the computer. Go to **Start > Control Panel > Device Manager**.

Expand the Network adapters category. If the 802.11n/b/g 2cm Wireless LAN USB2.0 Adapter is

listed here, it means that the device is properly installed and enabled.



# Chapter 3: Network Connection

## How to Make a Connection

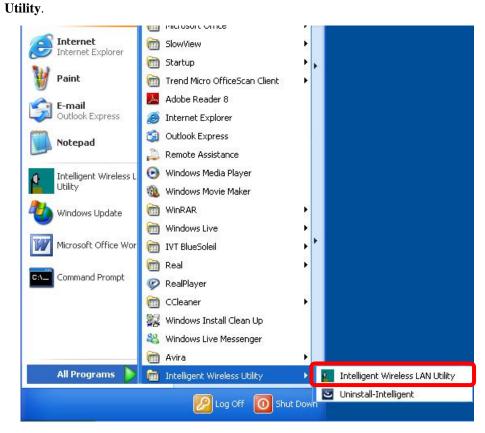
To make a connection with an access point, please follow below steps. Here takes Windows XP OS for example.

**Step 1**: After set up the Wireless USB Adapter successfully, please launch the Configuration Utility. There are two ways to launch the utility by:

(1) Double clicking the Intelligent Wireless LAN Utility icon on the desktop.



(2) Or go to Start →All Programs →Intelligent Wireless Utility → Intelligent Wireless LAN



**Step 2:** Please go to the **Available Network** tab, the system will automatically scan access points nearby, or click **Refresh** button to site survey again.

MyComputer	General Profix Available Net	twork clatus	s Statistics V	Vi-Fi Protect Setup	
002.111\\D\\g 2Cli	Available Network(s)				
I	SSID	Channel	Encryption	Network Authentication	Signal 🔼
	( <sup>(9)</sup> 3Q3Q	1	WEP	Unknown	42%
	(M) WR254E	1	None	Unknown	42%
I	۹۹) ZyXEL	1	None	Unknown	62%
	(🖓)ZyXEL-1	1	None	Unknown	46%
	(main an exuser and a second s	1	None	Unknown	42%
	(mainlive	2	None	Unknown	42%
	(M)ZyXEL_3090_AP	3	AES	WPA2 Pre-Shared Key	56%
	👘 ZyXEL-giga	4	TKIP	WPA Pre-Shared Key	8% -
	(P)SSID-00c473db	5	None	Unknown	70%
	( <sup>(1)</sup> 412	6	TKIP/AES	WPA Pre-Shared Key/	88%
	(mail Abocom-Wireless	6	None	Unknown	60%
	(19) ArthurAP	6	WEP	Unknown	62%
	(1) ZyXEL_3090	8	AES	WPA2 Pre-Shared Key	74%
	((mina	9	TKIP	WPA Pre-Shared Key	72%
I		10	חזעד	MIDA Dro Charod Koy	7007.
I	<		-		
I	Refres	h		Add to Profile	1
	Kelles			Add to Frome	
	Note				
	Double click on item f	to ioin/creat	e profile.		
	Double click of Home		e premer		

**Step 3**: Then, double click preferred access point or click **Add to Profile** button to make a connection (if the access point has been set up security, please enter passwords and then click **OK**.)

MyComputer	General Profile Available Netwo	rk Statu:	s Statistics V	Vi-Fi Protect Setup	
802.11n/b/g 2cn	Available Network(s)				
	SSID	Channel	Encryption	Network Authentication	Signal 📥
I	<sup>((9)</sup> 3Q3Q	1	WEP	Unknown	42%
	WR254E	1	None	Unknown	42%
	<sup>((۲))</sup> ZyXEL	1	None	Unknown	62%
	Eval ZyXEL-1	1	None	Unknown	46%
	(main and a second seco	1	None	Unknown	42%
	(m) airlive	2	None	Unknown	42%
	[49] ZyXEL_3090_AP	З	AES	WPA2 Pre-Shared Key	56%
	19 ZyXEL-giga	4	TKIP	WPA Pre-Shared Key	8% -
	(9) SSID-00c473db	5	None	Unknown	70%
	Cherry	6	TKIP/AES	WPA Pre-Shared Key/	88%
	Manager Abocom-Wireless	D	None	Unknown	00%
	499 ArthurAP	6	WEP	Unknown	62%
	<sup>((p)</sup> ZyXEL_3090	8	AES	WPA2 Pre-Shared Key	74%
	🤎 mina	9	TKIP	WPA Pre-Shared Key	72%
		10	TVID	MAN Dro Charod Koy	7007.
	Refresh			Add to Profile	
	Note				
	Double click on item to	join/creat	e profile.		

## How to Add a Profile

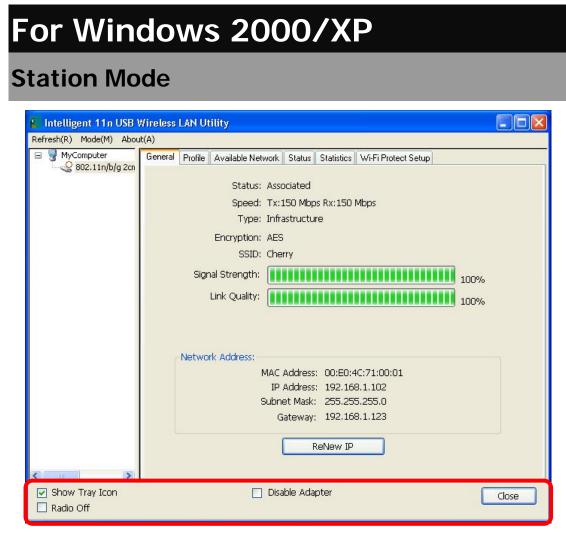
After launched Wireless LAN Utility and selected preferred access point, please click **Add to Profile** button to enter **Wireless Network Properties** windows. If the access point has been set up security, please enter passwords, and then click **OK** to save profile settings.

Wireless Network Properties:	
Profile Name: Cherry	802.1x configure
Network Name(SSID): Cherry	EAP TYPE :
	GTC
	Tunnel : Privision Mode :
This is a computer-to-computer(ad hoc) network; wirele access points are not used.	less
Channel: 11 (2462MHz)	Username :
Wireless network security	
This network requires a key for the following:	Identity :
Network Authentication: WPA2-PSK	
Data encryption: AES	Domain :
	Password :
Key index (advanced): 1	Certificate :
Network key:	
L	PAC : Auto Select PAC
Confirm network key:	
OK Cancel	

After finished above settings, please go to **Profile** tab to check the profile list (Available Profile(s)).

👔 Intelligent 11n USB 🕅	Vireless LAN Utility	. 🗆 🛛
Refresh(R) Mode(M) About	t(A)	
🖃 🚽 MyComputer	General Profile Available Network Status Statistics Wi-Fi Protect Setup	
	Available Profile(s)	-
	Profile Name SSID Add Add	
	Remove	
	Edit	
	Duplicate	
	Set Default	
	< >	
<u>                                      </u>		
Show Tray Icon Radio Off	Disable Adapter	lose

# Chapter 4: Utility Configuration



- Show Tray Icon: Check to show the wireless adapter icon at the tray.
- Disable Adapter: Check this to disable the wireless adapter.
- **Radio off:** Check this to turn OFF radio function.
- Close: Click to leave the Intelligent 11n USB Wireless LAN Utility.

#### **General**

The General page displays the detail information of current connection.

👔 Intelligent 11n USB \	∜ireless LAN Utility	
Refresh(R) Mode(M) Abou		
MyComputer	General Profile Available Network Status Statistics Wi-Fi Protect Setup	
	Status: Associated	
	Speed: Tx:150 Mbps Rx:150 Mbps	
	Type: Infrastructure	
	Encryption: AES	
	SSID: Cherry	
	Signal Strength:	
	Link Quality:	
	100%	
	Network Address:	
	MAC Address: 00:E0:4C:71:00:01	
	IP Address: 192.168.1.102	
	Subnet Mask: 255.255.0	
	Gateway: 192.168.1.123	
	ReNew IP	
Show Tray Icon Radio Off	Disable Adapter	
<b>General Tab</b>		
	Shows the current connected status. If there is no connection, it will show	
Status	Not Associated. If been connected, the system will show Associated.	
	When connecting, the system will show checking Status.	
Speed	Shows the current transmitting rate and receiving rate.	
Туре	Network type in use, Infrastructure or Ad-Hoc.	
Encryption	Shows the encryption type currently in use. Valid value includes WEP, TKIP, AES, and Not Use.	
SSID	Shows the connected access point network name.	
Signal Strength	Shows the receiving signal strength.	
Link Quality	Shows the connection quality based on signal strength.	
MAC Address	The physical address of the Wireless USB Adapter.	
IP Address	Shows the IP address information.	

 Subnet Mask
 Shows the Subnet Mask information.

 Gateway
 Shows the default gateway IP address.

 Renew IP
 Click the Renew IP button to obtain IP address form the connected gateway.

### **Profile**

Profile can let users book keeping the favorite wireless setting among home, office, and other public hot-spot. Users may save multiple profiles, and activate the correct one at preference. The Profile manager enables users to **Add, Remove, Edit, Duplicate** and **Set Default** profiles.

👔 Intelligent 11n USB W	Vireless LAN Utility		
Refresh(R) Mode(M) About	t(A)		
🖃 闍 MyComputer	General Profile Available Available Profile(s)	a Network ∥ Status ∥ Statistics ∥ Wi-Fi	Protect Setup
	Profile Name	SSID Cherry	Add
	2012	~~	Remove
			Edit
			Duplicate
			Set Default
	<		
< >			
Show Tray Icon Radio Off		Disable Adapter	Close

Profile Tab	
Profile Name	Here shows a distinctive name of profile in this column.
SSID	The <b>SSID</b> is the unique name shared among all wireless access points in the wireless network.
Add	Click <b>Add</b> button to add a profile from the drop-down screen.

Profile Name:	802.1x configure		
Network Name(SSID):	EAP TYPE :		
	GTC		
	Tunnel :	Privision Mod	le :
This is a computer-to-computer(ad hoc) network; wireless access points are not used.		~	
Channel: 1 (2412MHz)	Username :		
Wireless network security			
This network requires a key for the following:	Identity :		
Network Authentication: Open System 💙			
Data encryption: Disabled	Domain :		
	Password :		
Key index (advanced): 1 🗸	Certificate :		
Network key:			
	PAC : Auto S	Select PAC	
Confirm network key:			

Profile Name: Users can enter profile name at will.

**Network Name (SSID)**: The SSID is the unique network name (case-sensitive) shared among all wireless access points in the wireless network. The name must be identical for all devices and wireless access points attempting to connect to the same network.

This is a computer-to-computer (ad hoc) network; wireless access points are not used: This function is selected to enable the ad hoc network type that computers should be setup at the same channel to communicate to each other directly without access point, users can share files and printers between each PC and laptop. User can select channels form the pull-down menu.

#### Wireless network security

**Network Authentication:** There are several types of authentication modes including Open System, Shared Key, WPA-PSK, WPA2-PSK, WPA 802.1X, WPA2 802.1X and WEP 802.1X.

**Data encryption:** For Open System, Shared Key and WEP 802.1X authentication mode, the selection of encryption type is WEP. For WPA-PSK, WPA2-PSK, WPA 802.1X and WPA2 802.1X authentication mode, the encryption type supports both TKIP and AES.

#### When encryption is set to WEP...

**ASCII:** Only valid when using WEP encryption algorithm. When key length is set to 64 bits user can enter <u>5 ASCII characters</u> (case sensitive), and 128 bits for 13 <u>ASCII characters</u> (case sensitive).

**PASS PHRASE:** Only valid when using WEP encryption algorithm. When key length is set to 64 bits user can enter <u>10 Hexadecimal</u> <u>characters</u> (0~9, a~f) and 128 bits for 26 <u>Hexadecimal characters</u> (0~9, a~f).

**Key index (advanced):** Select 1~4 key index form the pull-down menu, must match with the connected AP's key index.

#### When encryption is set to WPA-PSK/ WPA2-PSK...

Network key: Enter network key at least 8 to 64 characters.

	Confirm network key: Enter network key again to confirm.
	When encryption is set to WPA 802.1X/ WPA2 802.1X/ WEP
	802.1X
	When users use radius server to authenticate client certificate for WPA authentication mode (WPA authentication do not support EAP Method-MD5-Challenge).
	EAP TYPE:
	• <b>TLS</b> : Transport Layer Security. Provides for certificate-based and mutual authentication of the client and the network. It relies on client-side and server-side certificates to perform authentication and can be used to dynamically generate user-based and session-based WEP keys to secure subsequent communications between the WLAN client and the access point.
	• <b>LEAP:</b> Light Extensible Authentication Protocol. It is an EAP authentication type used primarily in Cisco Aironet WLANs. It encrypts data transmissions using dynamically generated WEP keys, and supports mutual authentication.
	• <b>TTLS</b> : Tunnelled Transport Layer Security. This security method provides for certificate-based, mutual authentication of the client and network through an encrypted channel. Unlike EAP-TLS, EAP-TTLS requires only server-side certificates.
	• <b>PEAP</b> : Protect Extensible Authentication Protocol. PEAP transport securely authentication data by using tunnelling between PEAP clients and an authentication server. PEAP can authenticate wireless LAN clients using only server-side certificates, thus simplifying the implementation and administration of a secure wireless LAN.
	<ul> <li>MD5: Message Digest Challenge. Challenge is an EAP authentication type that provides base-level EAP support. It provides for only one-way authentication - there is no mutual authentication of wireless client and the network.</li> </ul>
	<b>Tunnel:</b> This is enabled under TTLS and PEAP type. For TTLS, the selections of tunnel are CHAP, MSCHAP, MSCHAP-V2, PAP. For PEAP, the selections of tunnel are MD5, GTC, TLS and MSCHAP-V2.
	Username: Enter the username for server.
	Identity: Enter the identity for server.
	<b>Domain:</b> Enter the domain of the network. <b>Password:</b> Enter the password for server.
	<b>Certificate:</b> Choose server that issuer of certificates.
Remove	Click <b>Remove</b> button to delete selected profile.
Edit	Click <b>Edit</b> button to edit selected profile.
Duplicate	Click <b>Duplicate</b> button to copy selected profile.
Set Default	Click Set Default button to set selected profile to be connected first.

### **Available Network**

This page displays the information of surrounding APs from last scan result. The tab lists the information including SSID, Channel, Encryption, Network Authentication, Signal, Type, BSSID, Supported Rate (s), and Mode.

yComputer General Profile Available Net	work Statu:	s Statistics V	Vi-Fi Protect Setup			
802.11n/b/g 2cn Available Network(s)						
SSID	Channel	Encryption	Network Authentication	Signal 📥		
(m) 3Q3Q	1	WEP	Unknown	42%		
(19) WR254E	1	None	Unknown	42%		
(19) ZyXEL	1	None	Unknown	62%		
Evaluation (1990) ZyXEL-1	1	None	Unknown	46%		
(main and a second seco	1	None	Unknown	42%		
(19) airlive	2	None	Unknown	42%		
<sup>(4)</sup> ZyXEL_3090_AP	З	AES	WPA2 Pre-Shared Key	56%		
👘 ZyXEL-giga	4	TKIP	WPA Pre-Shared Key	8%		
(m) SSID-00c473db	5	None	Unknown	70%		
Cherry	6	TKIP/AES	WPA Pre-Shared Key/	88%		
(19) Abocom-Wireless	6	None	Unknown	60%		
49 ArthurAP	6	WEP	Unknown	62%		
(19) ZyXEL_3090	8	AES	WPA2 Pre-Shared Key	74%		
(mina	9	TKIP	WPA Pre-Shared Key	72%		
	10	חזעד	MIDA Dro Charod Koy	700/.		
Refresh	1		Add to Profile			
Note						
	,					
Double click on item t	o join/creat	e profile.				
w Tray Icon	Disable An	lapter		Close		
Wite Double click on item t	o join/creat Disable Ac			Cr		

Network Tab		
SSID	Shows the network name of the access points.	
Channel	Shows the currently channel in use.	
Encryption	Shows the encryption type currently in use. Valid value includes WEP, TKIP, AES, None and TKIP/AES.	
Network Authentication	Show the device network authentication.	
Signal	Shows transmit power, the amount of power used by a radio transceiver to send the signal out.	
Туре	Network type in use, Infrastructure or Ad-Hoc mode.	
BSSID	Shows Wireless MAC address.	
Supported Rate(s)	Shows the transmitting data rate.	

Mode	Supported wireless mode. It may support 802.11b, 802.11g and 802.11n wireless mode.
Refresh	Click Refresh button to search and rescan the available network.
Add to Profile	Select an available network (SSID) on the list and then click Add to Profile button to add it into the profile list.
Note	Double click on item to join/create profile.

### <u>Status</u>

This tab listed the information about the wireless USB adapter and connected access point.

👔 Intelligent 11n USB W	'ireless LAN Utility 📃 🗆 🔀
Refresh(R) Mode(M) About	(A)
Refresh(R) Mode(M) About	(A)         General       Profile       Available Network       Status       Statistics       Wi-Fi Protect Setup         Manufacturer       =       Intelligent         NDIS Driver Version       =       1084.19.1113.2009         Short Radio Header       =       No         Encryption       =       AES         Authenticate       =       WPA2-PSK         Channel Set       =       FCC         MAC Address       =       00:E0:4C:71:00:01         Data Rate (AUTO)       =       Tx:150 Mbps Rx:150 Mbps         Channel (Frequency)       =       11 (2462 MHz)         Status       =       Associated         SSID       =       Cherry         Network Type       =       Infrastructure         Power Save Mode       =       None         Associated AP MAC       =       00:E0:4C:33:12:01         Up Time (hh:mm:ss)       =       0:39:10
Show Tray Icon	Disable Adapter      Close

### **Statistics**

The Statistics screen displays the statistics on the current network settings.

MyComputer Gen	al Profile Available Network S	tatus Statistics		5	
Contraction of the second seco		and the second s	Wi-Fi Protect Setup		
	Counter Name			/alue	
	Τχ ΟΚ		2	2969	
	Tx Error			0	
	Rx OK Rx Packet Count			964 964	
	Rx Retry			93	
	Rx ICV Error			Ő	
	<b>_</b>	2 3			
		Reset			
<b>X</b>					
	14-14 N				
] Show Tray Icon	📃 Disabl	e Adapter			Close

Statistics		
Тх ОК	Shows information of packets successfully sent.	
Tx Error	Shows information of packets failed transmit after hitting retry limit.	
Rx OK	Shows information of packets received successfully.	
Rx Packet Count	Shows information of packets received successfully.	
Rx Retry	Shows information of packets failed transmit after hitting retry limit.	
Rx ICV Error	Shows information of packets received with ICV error.	
Reset	Click to reset counters to zero.	

### <u>WPS</u>

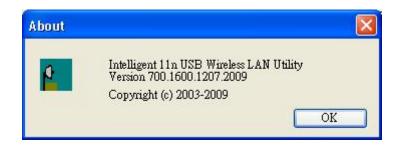
The primary goal of Wi-Fi Protected Setup (Wi-Fi Simple Configuration) is to simplify the security setup and management of Wi-Fi networks. The STA as an Enrollee or external Registrar supports the configuration setup using PIN (Personal Identification Number) configuration method or PBC (Push Button Configuration) method through an internal or external Registrar.

👔 Intelligent 11n USB W	/ireless LAN Utility	
Refresh(R) Mode(M) About	(A)	
Refresh(R) Mode(M) About	(A) General Profile Available Network Status Statistics Wi-Fi Protect Setup Wi-Fi Protectecd 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 : 63912111 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

WPS Tab	
PIN Code	8-digit numbers. It is required to enter PIN Code into Registrar when using PIN method. When STA is Enrollee, users can use " <b>Renew</b> " button to re-generate new PIN Code.
Pin Input Config (PIN)	Click the <b>Pin Input Config</b> ( <b>PIN</b> ) button to select specific AP to process PIN Config.
Push Button Config (PBC)	Click this button to connect with AP that supported WPS function within two minutes. Meanwhile, the AP should also click the PBC button simultaneously.

### <u>About</u>

This page displays the information of the Wireless USB Adapter Version.



## Switch to AP Mode

To access the soft AP mode, please select the Mode on the function list of the Utility to make the

Wireless USB Adapter act as a wireless AP.

👔 Intelligent 11n USB W	/ireless LAN Utility	
Refresh(R) Mode(M) About		
E TyC V Station Access Point	eral 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 : 63912111	
	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	Disable Adapter	Close

## Soft AP mode

### <u>General</u>

👔 Intelligent 11n USB W	/ireless LAN Utility			
Refresh(R) Mode(M) About	(A)			
B MyComputer	General Advanced Statistics ICS			
	SSID: softAp			
	BSSID: 00:E0:4C:71:00:01			
	Association Table			
	AID MAC Address Life Time			
Show Tray Icon	Config Config			
Radio Off	Disable Adapter Close			
General				
SSID	Shows the network name of the AP.			
BSSID	Shows the MAC address of the AP.			
Association Table	This table shows the connected client here.			
Config	Click the Config button to set up the Wireless Network Properties.			

Wireless Network Properties: X Profile Name: Access Point Mode
Network Name(SSID): softAP
This is a computer-to-computer(ad hoc) network; wireless access points are not used. Channel: 1 (2412MHz)
Wireless network security This network requires a key for the following: Network Authentication: Open System
Data encryption: Disabled
Key index (advanced): 1 V Network key:
Confirm network key: OK Cancel
<b>Network Name (SSID):</b> User can change the network name of this access
point.
Channel: User can select the channel form the pull-down list.
Wireless network security
<b>Network Authentication:</b> There are several types of authentication modes including Open System, Shared Key, WPA-PSK and WPA2-PSK.
<b>Data encryption:</b> For Open System and Shared Key authentication mode, the selection of encryption type is WEP. For WPA-PSK, WPA2-PSK, authentication mode, the encryption type supports both TKIP and AES.
When encryption is set to WEP
<b>ASCII:</b> Only valid when using WEP encryption algorithm. When key length is set to 64 bits user can enter <u>5 ASCII characters</u> (case sensitive), and 128 bits for 13 <u>ASCII characters</u> (case sensitive).
<b>PASS PHRASE:</b> Only valid when using WEP encryption algorithm. When key length is set to 64 bits user can enter <u>10 Hexadecimal characters</u> (0~9, a~f) and 128 bits for 26 <u>Hexadecimal characters</u> (0~9, a~f).
<b>Key index (advanced):</b> Select 1~4 key index form the pull-down menu, must match with the connected AP's key index.
When encryption is set to WPA-PSK/ WPA2-PSK
Network key: Enter network key at least 8 to 64 characters.
Confirm network key: Enter network key again to confirm.

#### **Advanced**

👔 Intelligent 11n USB 🕯	Wireless LAN Utility	
Refresh(R) Mode(M) Abou	ut(A)	
B MyComputer	General Advanced Statistics ICS	
	General	
	Beacon Interval	
	100	
	DTIM Period:	
	3	
	Preamble Mode	
	Long	
		, .
	Set Defaults Apply	J
< >		
Show Tray Icon	Disable Adapter	Class
Radio Off		Close

Advanced	
Beacon Interval	The time between two beacons. (The system default is 100 ms.)
DTIM Period	The delivery traffic indication message (DTIM) is an element included in some beacon frames. User can specify a value from 1 to 255 beacons.
Preamble	Select from the pull-down menu to change the Preamble type into <b>Short</b> or <b>Long</b> .
Set Defaults	Click to use the system default value.
Apply	Click to apply the above settings.

### **Statistics**

💈 Intelligent 11n USB Wire	less LAN Utility		
Refresh(R) Mode(M) About(A)			
MyComputer     Get     S02.11n/b/g 2cn	neral Advanced Statistics ICS		
	Counter Name	Value	
	Tx OK	15930	
	Tx Error	0	
	Rx OK	658	
	Rx Packet Count	658	
	Rx Retry	576	
	Rx ICV Error	0	
	Reset		
	(Leser		
< >			
🔽 Show Tray Icon	Disable Adapter	Close	
🔲 Radio Off			_

Statistics					
Тх ОК	Shows information of packets successfully sent.				
Tx Error	Shows information of packets failed transmit after hitting retry limit.				
Rx OK	Shows information of packets received successfully.				
Rx Packet Count	Shows information of packets received successfully.				
Rx Retry	Shows information of packets failed transmit after hitting retry limit.				
Rx ICV Error	Shows information of packets received with ICV error.				
Reset	Click to reset counters to zero.				

### <u>ICS</u>

This page displays setting Internet connection sharing (ICS). Select a sharing public network and click Apply button to make a connection.

👔 Intelligent 11n USB V	Vireless LAN Utility	
Refresh(R) Mode(M) Abou	t(A)	
🖃 🦉 MyComputer	General Advanced Statistics ICS Setting Internet Connection Sharing (ICS)	
	ConnName Device Name	
	은 Local Area Connection Realtek RTL8139 Family PCI Fast Ethernet NIC 전 Local Area Connecti Bluetooth PAN Network Adapter	
	Public Network	<u>&gt;</u>
Show Tray Icon	Disable Adapter	Close

## For Windows Vista

## **Station Mode**

Intelligent 11n USB Wire		• 🔀
Refresh(R) Mode( <u>M</u> ) Al	General       Profile       Available Network       Status       Statistics       Wi-Fi Protect Setup         Status:       Associated         Speed:       Tx:150       Mbps Rx:150         Type:       Infrastructure         Encryption:       AES         SSID:       Cherry         Signal Strength:       100%	
	Link Quality: 100% Network Address: MAC Address: 00:E0:4C:71:00:01 IP Address: 192.168.1.100 Subnet Mask: 255.255.255.0 Gateway: 192.168.1.123	
Show Tray Icon	ReNew IP	Close

- Show Tray Icon: Check to show the wireless adapter icon at the tray.
- **Disable Adapter:** Check this to disable the wireless adapter.
- Radio off: Check this to turn OFF radio function.
- Close: Click to leave the Intelligent 11n USB Wireless LAN Utility.

#### **General**

The General page displays the detail information of current connection.

👔 Intelligent 11n USB Wire	less LAN (	Jtility						- • •
	bout( <u>A</u> )							
	General	Profile	Available Network	Status	Statistics	Wi-Fi Protect Setup	]	
	Status: Associated							
	Speed: Tx:150 Mbps Rx:150							
			Type: Infrastr	ucture				
		Er	cryption: AES					
			SSID: Cherry					
		Signal 9	Strength:				100%	
							100%	
		Lin	k Quality:				100%	
	Netwo	ork Addr						
	MAC Address: 00:E0:4C:71:00:01							
	IP Address: 192.168.1.100							
	Subnet Mask: 255.255.255.0							
			Gateway: 19	92.168.	1.123			
	-		_			_		_
				ReNe	N IP			
< <u> </u>				_				
Show Tray Icon			Disa Disa	ble Ada	pter			Close
Radio Off								

General Tab				
Status	Shows the current connected status. If there is no connection, it will show Not Associated. If been connected, the system will show Associated. When connecting, the system will show checking Status.			
Speed	Shows the current transmitting rate and receiving rate.			
Туре	Network type in use, Infrastructure or Ad-Hoc.			
Encryption	Shows the encryption type currently in use. Valid value includes WEP, TKIP, AES, and Not Use.			
SSID	Shows the connected access point network name.			
Signal Strength	Shows the receiving signal strength.			
Link Quality	Shows the connection quality based on signal strength.			
MAC Address	The physical address of the Wireless USB Adapter.			
IP Address	Shows the IP address information.			
Subnet Mask	Shows the Subnet Mask information.			
Gateway	Shows the default gateway IP address.			
Renew IP	Click the <b>Renew IP</b> button to obtain IP address form the connected			

gateway.

### **Profile**

Profile can let users book keeping the favorite wireless setting among home, office, and other public hot-spot. Users may save multiple profiles, and activate the correct one at preference. The Profile manager enables users to **Add, Remove, Edit, Duplicate** and **Set Default** profiles.

Intelligent 11n USB Wire Refresh(R) Mode(M) Al	less LAN Utili bout( <u>A</u> )	ty					
Image: Stress of the stres	General Pr Available						
	Profile Name SSID						Add
	Cherry Cherry						Remove
							Edit
							Duplicate
							Set Default
	•		m		•		
Show Tray Icon     Radio Off			Disa	ble Ada	pter		Close

Profile Tab	
Profile Name	Here shows a distinctive name of profile in this column.
SSID	The <b>SSID</b> is the unique name shared among all wireless access points in the wireless network.
Add	Click <b>Add</b> button to add a profile from the drop-down screen.

Wireless Network Properties:		Ī
This is a computer-to-computer(ad hoc) network; wireless access points are not used.	s	
Profile Name:		
Network Name(SSID):		
Channel: 1 (2412MHz) *		
Wireless network security This network requires a key for the following:		
Network Authentication: Open System	•	
Data encryption: Disabled		
ASCII		
Key index (advanced):		
Confirm network key:		
OK <u>Cancel</u>		
This is a computer-to-computer (ad h points are not used: This function is see network type that computers should be a communicate to each other directly with files and printers between each PC and a	elected to enable the ad hoc setup at the same channel to nout access point, users can share	
Profile Name: Users can enter profile n	ame at will.	
<b>Network Name (SSID)</b> : The SSID is the (case-sensitive) shared among all wireled network. The name must be identical for points attempting to connect to the same	ess access points in the wireless r all devices and wireless access	
<b>Channel:</b> If set to ad hoc network type, pull-down menu.	user can select channels form the	
Wireless network security		
<b>Network Authentication:</b> There are se modes including Open System, Shared WPA 802.1X, WPA2 802.1X and WEP	Key, WPA-PSK, WPA2-PSK,	
<b>Data encryption:</b> For Open System, Sh authentication mode, the selection of enwPA-PSK, WPA2-PSK, WPA 802.1X mode, the encryption type supports both	cryption type is WEP. For and WPA2 802.1X authentication	
When encryption is set to WEP		
<b>ASCII:</b> Only valid when using WEP en length is set to 64 bits user can enter <u>5 A</u> and 128 bits for 13 <u>ASCII characters</u> (ca	ASCII characters (case sensitive),	
<b>PASS PHRASE:</b> Only valid when using When key length is set to 64 bits user cat <u>characters</u> (0~9, a~f) and 128 bits for 26 a~f).	in enter 10 Hexadecimal	
<b>Key index (advanced):</b> Select 1~4 key must match with the connected AP's key		

	When eneryption is set to WDA DSK/WDA2 DSK
	When encryption is set to WPA-PSK/WPA2-PSK
	<b>Network key:</b> Enter network key at least 8 to 64 characters.
	<b>Confirm network key:</b> Enter network key again to confirm.
	When encryption is set to WPA 802.1X/ WPA2 802.1X/ WEP 802.1X
	When users use radius server to authenticate client certificate for WPA authentication mode (WPA authentication do not support EAP Method-MD5-Challenge).
	ЕАР ТУРЕ:
	• <b>TLS</b> : Transport Layer Security. Provides for certificate-based and mutual authentication of the client and the network. It relies on client-side and server-side certificates to perform authentication and can be used to dynamically generate user-based and session-based WEP keys to secure subsequent communications between the WLAN client and the access point.
	• <b>LEAP:</b> Light Extensible Authentication Protocol. It is an EAP authentication type used primarily in Cisco Aironet WLANs. It encrypts data transmissions using dynamically generated WEP keys, and supports mutual authentication.
	• <b>TTLS</b> : Tunnelled Transport Layer Security. This security method provides for certificate-based, mutual authentication of the client and network through an encrypted channel. Unlike EAP-TLS, EAP-TTLS requires only server-side certificates.
	• <b>PEAP</b> : Protect Extensible Authentication Protocol. PEAP transport securely authentication data by using tunnelling between PEAP clients and an authentication server. PEAP can authenticate wireless LAN clients using only server-side certificates, thus simplifying the implementation and administration of a secure wireless LAN.
	<ul> <li>MD5: Message Digest Challenge. Challenge is an EAP authentication type that provides base-level EAP support. It provides for only one-way authentication - there is no mutual authentication of wireless client and the network.</li> </ul>
	<b>Tunnel:</b> This is enabled under TTLS and PEAP type. For TTLS, the selections of tunnel are CHAP, MSCHAP, MSCHAP-V2, PAP. For PEAP, the selections of tunnel are MD5, GTC, TLS and MSCHAP-V2.
	Username: Enter the username for server.
	Identity: Enter the identity for server.
	<b>Domain:</b> Enter the domain of the network.
	<b>Password:</b> Enter the password for server.
	Certificate: Choose server that issuer of certificates.
Remove	Click <b>Remove</b> button to delete selected profile.
Edit	Click <b>Edit</b> button to edit selected profile.
Duplicate	Click <b>Duplicate</b> button to copy selected profile.
Set Default	Click <b>Set Default</b> button to set selected profile to be connected first.

#### **Available Network**

This page displays the information of surrounding APs from last scan result. The tab lists the information including SSID, Channel, Encryption, Network Authentication, Signal, Type, BSSID, Supported Rate(s), and Mode.

MyComputer	General Profile Available	Vetwork Statu	s Statistics	Wi-Fi Protect Setup	
2 802.11n/b/g 2c	Available Network(s)				
	SSID	Channel	Encryption	Network Authentication	Signa
	[(a)] ZyXEL	1	None	Unknown	70%
	(9) ZyXEL-1	1	None	Unknown	60%
	(9) ZyXEL_3090_AP	3	AES	WPA2 Pre-Shared Key	44%
	((9)) airlive	4	None	Unknown	26%
	(e) 412	6	TKIP/AES	WPA Pre-Shared Key/	72%
	(9) Abocom-Wireless	6	None	Unknown	44%
	(9) Abocom-Wireless	6	None	Unknown	42%
	(9) ArthurAP	6	WEP	Unknown	72%
	[ <sup>(p)]</sup> ZyXEL_3090_62	8	AES	WPA2 Pre-Shared Key	56%
	(9) mina	9	TKIP	WPA Pre-Shared Key	76%
	(m) 3GSHARE	10	TKIP	WPA Pre-Shared Key	62%
	GT2000Adhoc	10	None	Unknown	72%
	(m) Untitled	10	None	Unknown	88%
	((a)) ZyXEL	10	None	Unknown	56%
	((a) ZyXEL	10	None	Unknown	42%
	(9) Abocom-Wireless	11	None	Unknown	96%
	(P) Cherry	11	AES	WPA Pre-Shared Key/	100%
	((9)) airlive	11	None	Unknown	48%
	<				E.
		esh		Add to Profile	

#### Network Tab

SSID	Shows the network name of the access points.
Channel	Shows the currently channel in use.
Encryption	Shows the encryption type currently in use. Valid value includes WEP, TKIP, AES, None and TKIP/AES.
Network Authentication	Show the device network authentication.
Signal	Shows transmit power, the amount of power used by a radio transceiver to send the signal out.
Туре	Network type in use, Infrastructure or Ad-Hoc mode.

BSSID	Shows Wireless MAC address.
Supported Rate(s)	Shows the transmitting data rate.
Mode	Supported wireless mode. It may support 802.11b, 802.11g and 802.11n wireless mode.
Refresh	Click Refresh button to search and rescan the available network.
Add to Profile	Select an available network (SSID) on the list and then click Add to Profile button to add it into the profile list.
Note	Double click on item to join/create profile.

#### <u>Status</u>

This tab listed the information about the wireless USB adapter and connected access point.

Intelligent 11n USB Wire	less LAN Utility	
Refresh( <u>R</u> ) Mode( <u>M</u> ) A	bout( <u>A)</u>	
By MyComputer Burget 802.11n/b/g 2c	General Profile Available Network Status	Statistics Wi-Fi Protect Setup
	Manufacturer NDIS Driver Version Short Radio Header Encryption Authenticate Channel Set MAC Address Data Rate (AUTO) Channel (Frequency)	Intelligent 1084.19.1028.2009 No AES WPA2-PSK FCC 00:E0:4C:71:00:01 Tx:150 Mbps Rx:150 Mbps 11 (2462 MHz)
	Status SSID Network Type Power Save Mode Associated AP MAC Up Time (hh:mm:ss)	Associated Cherry Infrastructure None 00:E0:4C:33:12:01 0:16:34
<ul> <li>✓ III →</li> <li>✓ Show Tray Icon</li> <li>✓ Radio Off</li> </ul>	Disable Ad	apter Close

#### **Statistics**

The Statistics screen displays the statistics on the current network settings.

Intelligent 11n USB Wireles efresh( <u>R</u> ) Mode( <u>M</u> ) Abo		
MyComputer G	eneral Profile Available Network Status Statistics Wi-F	Fi Protect Setup
	Counter Name	Value
	Тх ОК	247
	Tx Error	0
	Rx OK	99
	Rx Packet Count	99
	Rx Retry Rx ICV Error	7
	RX ICV EITOT	0
	Reset	
	<u>.</u>	
<b>&gt;</b>		
Show Tray Icon	Disable Adapter	Close

Statistics		
Тх ОК	Shows information of packets successfully sent.	
Tx Error	Shows information of packets failed transmit after hitting retry limit.	
Rx OK	Shows information of packets received successfully.	
Rx Packet Count	Shows information of packets received successfully.	
Rx Retry	Shows information of packets failed transmit after hitting retry limit.	
Rx ICV Error	Shows information of packets received with ICV error.	
Reset	Click to reset counters to zero.	

#### <u>WPS</u>

The primary goal of Wi-Fi Protected Setup (Wi-Fi Simple Configuration) is to simplify the security setup and management of Wi-Fi networks. The STA as an Enrollee or external Registrar supports the configuration setup using PIN (Personal Identification Number) configuration method or PBC (Push Button Configuration) method through an internal or external Registrar.

Intelligent 11n USB Wire	eless LAN Utility				
Refresh( <u>R</u> ) Mode( <u>M</u> ) Al	bout( <u>A</u> )				
B g MyComputer	General Profile Available Network Status Statistics Wi-Fi Protect Setup				
		1			
	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: 54285620				
	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	Disable Adapter	•			

WPS Tab	
PIN Code	8-digit numbers. It is required to enter PIN Code into Registrar when using PIN method. When STA is Enrollee, users can use " <b>Renew</b> " button to re-generate new PIN Code.
Pin Input Config (PIN)	Click the <b>Pin Input Config</b> ( <b>PIN</b> ) button to select specific AP to process PIN Config.
Push Button Config (PBC)	Click this button to connect with AP that supported WPS function within two minutes. Meanwhile, the AP should also click the PBC button simultaneously.

#### <u>About</u>

This page displays the information of the Wireless USB Adapter Version.



### Switch to AP Mode

To access the soft AP mode, please select the **Mode** on the function list of the Utility to make the Wireless USB Adapter act as a wireless AP.

AND A REPORT OF A	About(A)
My Station	e Available Network Status Statistics Wi-Fi Protect Setup
Access	Point Status: Associated
	Speed: Tx:150 Mbps Rx:150
	Type: Infrastructure
	Encryption: AES
	SSID: Cherry
	Signal Strength: 100%
	Link Quality: 100%
	Network Address:
	MAC Address: 00:E0:4C:71:00:01
	IP Address: 192.168.1.100
	Subnet Mask: 255.255.255.0
	Gateway: 192.168.1.123
	ReNew IP
	ReNew IP
	ReNew IP
m þ	ReNew IP

## Soft AP mode

#### <u>General</u>

Intelligent 11n USB Wireles	
Refresh( <u>R</u> ) Mode( <u>M</u> ) Abo	Is LAN Utility I I I I I I I I I I I I I I I I I I I
<ul> <li>✓ III → </li> <li>✓ Show Tray Icon</li> <li>✓ Radio Off</li> </ul>	Disable Adapter
General	
SSID	Shows the network name of the AP.
BSSID	Shows the MAC address of the AP.
Association Table	This table shows the connected client here.
Config	Click the Config button to set up the Wireless Network Properties.

Wireless Network Properties:	
This is a computer-to-computer(ad hoc) network; wireless	
Profile Name: Access Point Mode	
Network Name(SSID): Cherry-PC_AP	
Channel: 1 (2412MHz) -	
Wireless network security	
This network requires a key for the following:	
Network Authentication: Open System	
Data encryption: Disabled	
ASCII PASSPHRASE	
Key index (advanced):	
Network key:	
Confirm network key:	
OK <u>C</u> ancel	
Network Name (CSID): Han on all a during the state	
<b>Network Name (SSID):</b> User can change the network name of this accessint	ess
point.	
Channel: User can select the channel form the pull-down list.	
Wireless network security	
Network Authentication: There are several types of authentication	
modes including Open System, Shared Key, WPA-PSK and WPA2-PSI	ζ.
Data anonymption: For Open System and Shared Very authentication may	ło
<b>Data encryption:</b> For Open System and Shared Key authentication modes he selection of encryption type is WEP. For WPA-PSK, WPA2-PSK,	ю,
uthentication mode, the encryption type supports both TKIP and AES.	
When encryption is set to WEP	
ASCII: Only valid when using WEP encryption algorithm. When key	
ength is set to 64 bits user can enter <u>5 ASCII characters</u> (case sensitive)	,
and 128 bits for 13 <u>ASCII characters</u> (case sensitive).	
<b>PASS PHRASE:</b> Only valid when using WEP encryption algorithm.	
When key length is set to 64 bits user can enter $10$ Hexadecimal charact	ers
(0-9, a-f) and 128 bits for 26 <u>Hexadecimal characters</u> $(0-9, a-f)$ .	
Key index (advanced): Select 1~4 key index form the pull-down menu.	
must match with the connected AP's key index.	,
When encryption is set to WPA-PSK/ WPA2-PSK	
Network key: Enter network key at least 8 to 64 characters.	
<b>Confirm network key:</b> Enter network key again to confirm.	

#### **Advanced**

Intelligent 11n USB Wire		
and the second	bout( <u>A</u> )	
MyComputer	General Advanced Statistics ICS General Beacon Interval DTIM Period: 3 Preamble Mode Short	
< Þ	Set Defaults Apply	
Show Tray Icon Radio Off	Disable Adapter	Close

Advanced	
Beacon Interval	The time between two beacons. (The system default is 100 ms.)
DTIM Period	The delivery traffic indication message (DTIM) is an element included in some beacon frames. User can specify a value from 1 to 255 beacons.
Preamble	Select from the pull-down menu to change the Preamble type into <b>Short</b> or <b>Long</b> .
Set Defaults	Click to use the system default value.
Apply	Click to apply the above settings.

#### **Statistics**

		_
		_
		_
		-
RX ICV Error	0	-
		=
	<u>di di secondo di</u>	
C	_	
Reset		
	Counter Name Tx OK Tx Error Rx OK Rx Packet Count Rx Retry Rx ICV Error Rx ICV Error Reset	Tx OK     3436       Tx Error     0       Rx OK     218       Rx Packet Count     218       Rx Retry     208       Rx ICV Error     0

#### Statistics

Shows information of packets successfully sent.
Shows information of packets failed transmit after hitting retry limit.
Shows information of packets received successfully.
Shows information of packets received successfully.
Shows information of packets failed transmit after hitting retry limit.
Shows information of packets received with ICV error.
Click to reset counters to zero.

#### <u>ICS</u>

This page displays setting Internet connection sharing (ICS). Select a sharing public network and click Apply button to make a connection.

Refresh( <u>R</u> ) Mode( <u>M</u> ) Al	bout( <u>A</u> )	
By Computer Building 2c Building 2c	General Advanced Statistics ICS Setting Internet Connection Sharing (ICS)	
	ConnName Device Name	
	Bluetooth Network       Bluetooth Device (Personal Area Network) #2         Local Area Connection       SiS 900-Based PCI Fast Ethernet Adapter	
	۲	
	Public Network	
	Local Area Connection SiS 900-Based PCI Fast Ethernet Adapter Apply	
< <u> </u>	Disable Adapter	

# For Windows 7

### **Station Mode**

Intelligent 11n USB Wire Refresh(R) Mode(M) Al	eless LAN Utility	x
By Computer Boot in the second	General       Profile       Available Network       Status       Statistics       Wi-Fi Protect Setup         Status:       Associated       Speed:       Tx:150 Mbps Rx:150         Type:       Infrastructure         Encryption:       AES         SSID:       Cherry         Signal Strength:       92%         Link Quality:       99%         Network Address:       MAC Address:         MAC Address:       192.168.1.102         Subnet Mask:       255.255.255.0         Gateway:       192.168.1.123	
Show Tray Icon	ReNew IP      Disable Adapter      Close	

- Show Tray Icon: Check to show the wireless adapter icon at the tray.
- **Disable Adapter:** Check this to disable the wireless adapter.
- **Radio off:** Check this to turn OFF radio function.
- Close: Click to leave the Intelligent 11n USB Wireless LAN Utility.

#### <u>General</u>

Intelligent 11n USB Wire	eless LAN	Utility					X
Refresh( <u>R</u> ) Mode( <u>M</u> ) A	bout( <u>A</u> )						
B- 💡 MyComputer	General	Profile	Available Network	Status	Statistics	Wi-Fi Protect Setup	
			Status: Associa	ted			
			Speed: Tx:150	Mbps R	x:150		
			Type: Infrastr	ucture			
		E	ncryption: AES				
			SSID: Cherry				
		Signal !	Strength:			-	92%
		Lin	k Quality:				99%
	Netwo	ork Add	ress:				
			MAC Address: (	0:E0:40	:71:00:01	£	
			IP Address: 1	12 160	1 100		
			Subnet Mask: 2				
			Gateway: 1				
			(			7	W
				ReNet	N IP		
<							
Show Tray Icon			Disa	ble Ada	pter		Close
Radio Off					tonst011		Ciuse

The General page displays the detail information of current connection.

General Tab	
Status	Shows the current connected status. If there is no connection, it will show Not Associated. If been connected, the system will show Associated. When connecting, the system will show checking Status.
Speed	Shows the current transmitting rate and receiving rate.
Туре	Network type in use, Infrastructure or Ad-Hoc.
Encryption	Shows the encryption type currently in use. Valid value includes WEP, TKIP, AES, and Not Use.
SSID	Shows the connected access point network name.
Signal Strength	Shows the receiving signal strength.
Link Quality	Shows the connection quality based on signal strength.
MAC Address	The physical address of the Wireless USB Adapter.
IP Address	Shows the IP address information.
Subnet Mask	Shows the Subnet Mask information.
Gateway	Shows the default gateway IP address.

Renew IP	Click the	Renew	IP	button	to	obtain	IP	address	form	the	connected	
Kellew II	gateway.											

#### **Profile**

Profile can let users book keeping the favorite wireless setting among home, office, and other public hot-spot. Users may save multiple profiles, and activate the correct one at preference. The Profile manager enables users to **Add, Remove, Edit, Duplicate** and **Set Default** profiles.

	bout( <u>A</u> )						
MyComputer	General	Profile	Available Network	Status	Statistics	Wi-Fi Protect Setup	
	Availal	ole Profi	le(s)				
	1.090.51	le Name	s SSID				Add
	() () ()	herry	Cher	y			Remove
							Edit
							Duplicate
							Set Default
	•		m		F		
Þ							
Show Tray Icon Radio Off			Disa	ible Ada	pter		Close

Profile Tab	
Profile Name	Here shows a distinctive name of profile in this column.
SSID	The <b>SSID</b> is the unique name shared among all wireless access points in the wireless network.
Add	Click <b>Add</b> button to add a profile from the drop-down screen.

Wireless Network Properties:
This is a computer-to-computer(ad hoc) network; wireless access points are not used.
Profile Name:
Network Name(SSID):
Channel: 1 (2412MHz) v
Wireless network security This network requires a key for the following:
Network Authentication: Open System
Data encryption: Disabled
Key index (advanced):
Network key:
Confirm network key:
OK <u>C</u> ancel
This is a computer-to-computer (ad hoc) network; wireless access points are not used: This function is selected to enable the ad hoc
network type that computers should be setup at the same channel to
communicate to each other directly without access point, users can share
files and printers between each PC and laptop.
Profile Name: Users can enter profile name at will.
Network Name (SSID): The SSID is the unique network name
(case-sensitive) shared among all wireless access points in the wireless
network. The name must be identical for all devices and wireless access
points attempting to connect to the same network.
Channel: If set to ad hoc network type, user can select channels form the
pull-down menu.
Wireless network security
The cost activity becarily
Network Authentication: There are several types of authentication
modes including Open System, Shared Key, WPA-PSK, WPA2-PSK, WPA 802.1X, WPA2 802.1X and WEP 802.1X.
<b>Data encryption:</b> For Open System, Shared Key and WEP 802.1X authentication mode, the selection of encryption type is WEP. For
WPA-PSK, WPA2-PSK, WPA 802.1X and WPA2 802.1X authentication
mode, the encryption type supports both TKIP and AES.
When encryption is set to WEP
ASCH. Only valid when your a WED as a method that When I
<b>ASCII:</b> Only valid when using WEP encryption algorithm. When key length is set to 64 bits user can enter <u>5 ASCII characters</u> (case sensitive),
and 128 bits for 13 ASCII characters (case sensitive),
<b>PASS PHRASE:</b> Only valid when using WEP encryption algorithm.
When key length is set to 64 bits user can enter <u>10 Hexadecimal</u>
characters (0~9, a~f) and 128 bits for 26 Hexadecimal characters (0~9,
a~f).
Key index (advanced): Select 1~4 key index form the pull-down menu,

	must match with the connected AP's key index.	
	When encryption is set to WPA-PSK/ WPA2-PSK	
	Network key: Enter network key at least 8 to 64 characters.	
	<b>Confirm network key:</b> Enter network key again to confirm.	
	When encryption is set to WPA 802.1X/ WPA2 802.1X/ WEP 802.1X	
	When users use radius server to authenticate client certificate for WPA authentication mode (WPA authentication do not support EAP Method-MD5-Challenge).	
	EAP TYPE:	
	• <b>TLS</b> : Transport Layer Security. Provides for certificate-based and mutual authentication of the client and the network. It relies on client-side and server-side certificates to perform authentication and can be used to dynamically generate user-based and session-based WEP keys to secure subsequent communications between the WLAN client and the access point.	
	• <b>LEAP:</b> Light Extensible Authentication Protocol. It is an EAP authentication type used primarily in Cisco Aironet WLANs. It encrypts data transmissions using dynamically generated WEP keys, and supports mutual authentication.	
	• <b>TTLS</b> : Tunnelled Transport Layer Security. This security method provides for certificate-based, mutual authentication of the client and network through an encrypted channel. Unlike EAP-TLS, EAP-TTLS requires only server-side certificates.	
	• <b>PEAP</b> : Protect Extensible Authentication Protocol. PEAP transport securely authentication data by using tunnelling between PEAP clients and an authentication server. PEAP can authenticate wireless LAN clients using only server-side certificates, thus simplifying the implementation and administration of a secure wireless LAN.	
	<ul> <li>MD5: Message Digest Challenge. Challenge is an EAP authentication type that provides base-level EAP support. It provides for only one-way authentication - there is no mutual authentication of wireless client and the network.</li> </ul>	
	<b>Tunnel:</b> This is enabled under TTLS and PEAP type. For TTLS, the selections of tunnel are CHAP, MSCHAP, MSCHAP-V2, PAP. For PEAP, the selections of tunnel are MD5, GTC, TLS and MSCHAP-V2.	
	Username: Enter the username for server.	
	Identity: Enter the identity for server.	
	<b>Domain:</b> Enter the domain of the network.	
	Password: Enter the password for server.	
	Certificate: Choose server that issuer of certificates.	
Remove	Click <b>Remove</b> button to delete selected profile.	
Edit	Click <b>Edit</b> button to edit selected profile.	
Duplicate	Click <b>Duplicate</b> button to copy selected profile.	
Set Default	Click Set Default button to set selected profile to be connected first.	
1	1	

#### **Available Network**

This page displays the information of surrounding APs from last scan result. The tab lists the information including SSID, Channel, Encryption, Network Authentication, Signal, Type, BSSID, Supported Rate(s), and Mode.

∃	General Profile Available No	etwork Statu	s Statistics	Wi-Fi Protect Setup	
802.11n/b/g 2c	Available Network(s)				
	SSID	Channel	Encryption	Network Authentication	Signa 🔶
	((9)) ZyXEL	1	None	Unknown	58%
	(m) ZyXEL_3090_AP	3	AES	WPA2 Pre-Shared Key	60%
	((9)) SSID-00c473db	5	None	Unknown	92%
	<sup>((p))</sup> 412	6	TKIP/AES	WPA Pre-Shared Key/	60%
	((a)) AIR3G_DEMO	6	None	Unknown	76%
	((9)) Abocom-Wireless	6	None	Unknown	48%
	(🕬 ArthurAP	6	WEP	Unknown	56% _
	((9)) 3GDEMO_WR5204U	7	AES	WPA Pre-Shared Key	58%
	(@) ZyXEL_3090	8	AES	WPA2 Pre-Shared Key	58%
	((p)) mina	9	TKIP	WPA Pre-Shared Key	100%
	((m) 3GSHARE	10	TKIP	WPA Pre-Shared Key	62%
	((p)) Untitled	10	None	Unknown	92%
	(🕬) Abocom-Wireless	11	None	Unknown	92%
	(P) Cherry	11	AES	WPA Pre-Shared Key/	62%
	((9)) ZyXEL	11	None	Unknown	74%
	((q)) airlive	11	None	Unknown	76%
	[[a]] x1	11	None	Unknown	26%
	[(9)] x2	11	None	Unknown	42% -
	•				F
	Refre	sh		Add to Profile	
	Note				
	Double click on item	to join/crea	ite profile.		
4 III					

Network Tab	
SSID	Shows the network name of the access points.
Channel	Shows the currently channel in use.
Encryption	Shows the encryption type currently in use. Valid value includes WEP, TKIP, AES, None and TKIP/AES.
Network Authentication	Show the device network authentication.
Signal	Shows transmit power, the amount of power used by a radio transceiver to send the signal out.

Туре	Network type in use, Infrastructure or Ad-Hoc mode.
BSSID	Shows Wireless MAC address.
Supported Rate(s)	Shows the transmitting data rate.
Mode	Supported wireless mode. It may support 802.11b, 802.11g and 802.11n wireless mode.
Refresh	Click Refresh button to search and rescan the available network.
Add to Profile	Select an available network (SSID) on the list and then click Add to Profile button to add it into the profile list.
Note	Double click on item to join/create profile.

#### <u>Status</u>

This tab listed the information about the wireless USB adapter and connected access point.

and the second	bout( <u>A</u> )	
MyComputer	General Profile Available Network Status	Statistics Wi-Fi Protect Setup
802.11n/b/g 2c		
	Manufacturer	Intelligent
	NDIS Driver Version	1086.5.1111.2009
	Short Radio Header	No
	Encryption	AES
	Authenticate	WPA2-PSK
	Channel Set	FCC
	MAC Address	00:E0:4C:71:00:01
	Data Rate (AUTO)	Tx:120 Mbps Rx:120 Mbps
	Channel (Frequency)	11 (2462 MHz)
	Status	Associated
	SSID	Cherry
	Network Type	Infrastructure
	Power Save Mode	None
	Associated AP MAC	00:E0:4C:33:12:01
	Up Time (hh:mm:ss)	0:22:28
4 m		
Show Tray Icon	Disable Ada	apter Close
Radio Off		

#### **Statistics**

The Statistics screen displays the statistics on the current network settings.

	ut( <u>A</u> )	
MyComputer	General Profile Available Network Status Statistics Wi-F	i Protect Setup
	Counter Name	Value
	Tx OK	250
	Tx Error	0
	RX OK	52
	Rx Packet Count	52
	Rx Retry	50
	Rx ICV Error	0
	C	n n
	Reset	
+	Disable Adapter	

Statistics		
Тх ОК	Shows information of packets successfully sent.	
Tx Error	Shows information of packets failed transmit after hitting retry limit.	
Rx OK	Shows information of packets received successfully.	
Rx Packet Count	Shows information of packets received successfully.	
Rx Retry	Shows information of packets failed transmit after hitting retry limit.	
Rx ICV Error	Shows information of packets received with ICV error.	
Reset	Click to reset counters to zero.	

#### <u>WPS</u>

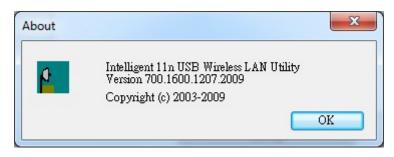
The primary goal of Wi-Fi Protected Setup (Wi-Fi Simple Configuration) is to simplify the security setup and management of Wi-Fi networks. The STA as an Enrollee or external Registrar supports the configuration setup using PIN (Personal Identification Number) configuration method or PBC (Push Button Configuration) method through an internal or external Registrar.

Intelligent 11n USB Wire Refresh(R) Mode(M) At	eless LAN Utility
Refresh(R) Mode(M) At ⊡ 802.11n/b/g 2c	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 : 43022793         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	Disable Adapter      Close

WPS Tab	
PIN Code	8-digit numbers. It is required to enter PIN Code into Registrar when using PIN method. When STA is Enrollee, users can use " <b>Renew</b> " button to re-generate new PIN Code.
Pin Input Config (PIN)	Click the <b>Pin Input Config</b> ( <b>PIN</b> ) button to select specific AP to process PIN Config.
Push Button Config (PBC)	Click this button to connect with AP that supported WPS function within two minutes. Meanwhile, the AP should also click the PBC button simultaneously.

#### <u>About</u>

This page displays the information of the Wireless USB Adapter Version.



### Switch to AP Mode

To access the soft AP mode, please select the **Mode** on the function list of the Utility to make the Wireless USB Adapter act as a wireless AP.

Intelligent 11n USB Wire	eless LAN Utility	
Refresh(R) Mode(M) Ab	bout(A)	
🖃 😼 🚺 🗸 Station	e Available Network Status Statistics Wi-Fi Protect Setup	
Access Po	oint Status: Associated	
	Speed: Tx:120 Mbps Rx:120	
	Type: Infrastructure	
	Encryption: AES	
	SSID: Cherry	
	Signal Strength: 76%	
	Link Quality: 100%	
	Network Address:	
	MAC Address: 00:E0:4C:71:00:01	
	IP Address: 192.168.1.102 Subnet Mask: 255.255.255.0	
	Gateway: 192.168.1.123	
	Gateway.	
		s
	ReNew IP	
	G.	
Show Tray Icon	Disable Adapter	Close

## Soft AP mode

#### <u>General</u>

Intelligent 11n USB Wirele	ess LAN Utility	
Refresh(R) Mode(M) Abo	out( <u>A</u> )	
	General Advanced Statistics ICS SSID: Abocom-PC_AP BSSID: 00:E0:4C:71:00:01 Association Table	
	AID       MAC Address       Life Time         Image: Config       Image: Config	
Show Tray Icon	Disable Adapter      Close	
General		
SSID	Shows the network name of the AP.	
BSSID	Shows the MAC address of the AP.	
Association Table	This table shows the connected client here.	
Config	Click the Config button to set up the Wireless Network Properties.	

Wireless Network Properties:
☐ This is a computer-to-computer(ad hoc) network; wireless access points are not used.
Profile Name: Access Point Mode
Network Name(SSID): Abocom-PC_AP
Channel: 1 (2412MHz) V
Wireless network security This network requires a key for the following:
Network Authentication: Open System 🔻
Data encryption: Disabled 🗸
Key index (advanced):
Network key:
Confirm network key:
OK <u>C</u> ancel
Wireless network security Network Authentication: There are several types of authentication modes including Open System, Shared Key, WPA-PSK and WPA2-PSK. Data encryption: For Open System and Shared Key authentication mode, he selection of encryption type is WEP. For WPA-PSK, WPA2-PSK, muthentication mode, the encryption type supports both TKIP and AES.
When encryption is set to WEP
<b>SCII:</b> Only valid when using WEP encryption algorithm. When key ength is set to 64 bits user can enter <u>5 ASCII characters</u> (case sensitive), nd 128 bits for 13 <u>ASCII characters</u> (case sensitive).
<b>PASS PHRASE:</b> Only valid when using WEP encryption algorithm. When key length is set to 64 bits user can enter <u>10 Hexadecimal characters</u> 0~9, a~f) and 128 bits for 26 <u>Hexadecimal characters</u> (0~9, a~f).
<b>Key index (advanced):</b> Select 1~4 key index form the pull-down menu, nust match with the connected AP's key index.
When encryption is set to WPA-PSK/ WPA2-PSK
Network key: Enter network key at least 8 to 64 characters.
Confirm network key: Enter network key again to confirm.

#### <u>Advanced</u>

Intelligent 11n USB Wire	eless LAN Utility	x
Refresh( <u>R</u> ) Mode( <u>M</u> ) A	bout( <u>A</u> )	
MyComputer	General Advanced Statistics ICS General Beacon Interval [100 DTIM Period: 3 Preamble Mode Long	
4	Set Defaults Apply	
Show Tray Icon Radio Off	Disable Adapter Clos	e

Advanced		
Beacon Interval	The time between two beacons. (The system default is 100 ms.)	
DTIM Period	The delivery traffic indication message (DTIM) is an element included in some beacon frames. User can specify a value from 1 to 255 beacons.	
Preamble	Select from the pull-down menu to change the Preamble type into <b>Short</b> or <b>Long</b> .	
Set Defaults	Click to use the system default value.	
Apply	Click to apply the above settings.	

#### **Statistics**

0		
al Advanced Statistics ICS		
Counter Name	Value	]
Tx OK	785	
Tx Error	0	
Rx OK	136	
Rx Packet Count	136	-
Rx Retry	123	
Rx ICV Error	0	
Reset		
Disable Adapter		Close
	Tx OK Tx Error Rx OK Rx Packet Count	Tx OK       785         Tx Error       0         Rx OK       136         Rx Packet Count       136         Rx Retry       123         Rx ICV Error       0         Reset       1

#### Statistics

Shows information of packets successfully sent.		
Shows information of packets failed transmit after hitting retry limit.		
Shows information of packets received successfully.		
Shows information of packets received successfully.		
Shows information of packets failed transmit after hitting retry limit.		
Shows information of packets received with ICV error.		
Click to reset counters to zero.		

#### <u>ICS</u>

This page displays setting Internet connection sharing (ICS). Select a sharing public network and click Apply button to make a connection.

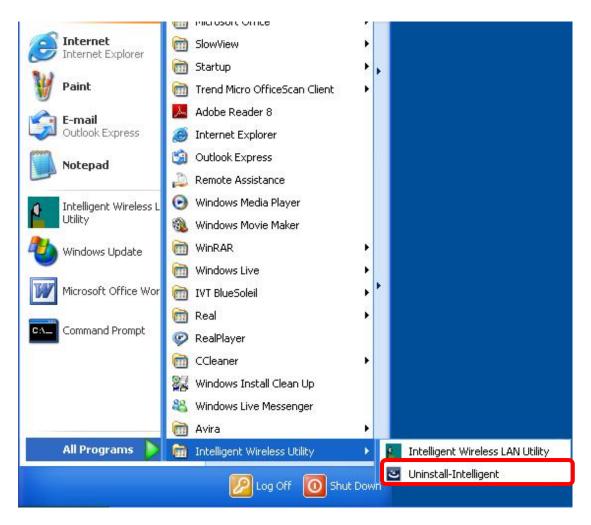
Intelligent 11n USB Wire	and the second se
Refresh(R) Mode(M) At	General Advanced Statistics ICS Setting Internet Connection Sharing (ICS)
	ConnName Device Name Connection Atheros L1 Gigabit Ethernet 10/100/1000Base-T Con Connection Atheros L1 Gigabit Ethernet 10/100/1000Base-T Connection Atheros L1 Gigabit Ethernet 10/100/1000Base-T Connection Atheros L1 Gigabit Ethernet 10/100/100/1000Base-T Connection Atheros L
< Þ	Apply
<ul> <li>Show Tray Icon</li> <li>Radio Off</li> </ul>	Disable Adapter Close

# **Chapter 5: Uninstall**

# For Windows 2000/XP

To remove the utility and driver, please refer to below steps. (When removing the utility, the driver will be removed as well.)

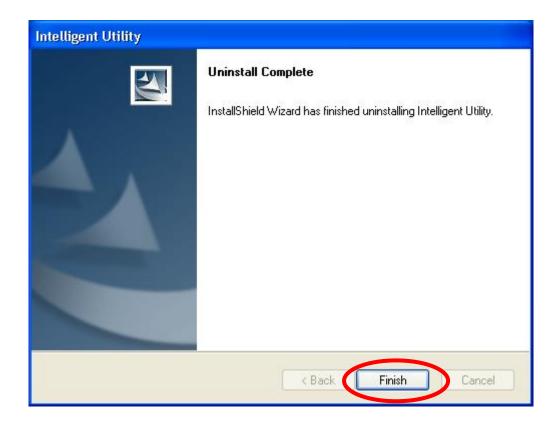
1. Go to Start →All Programs →Intelligent Wireless Utility→ Uninstall –Intelligent.



2. Click **Yes** to completely remove the selected application and all of its features.



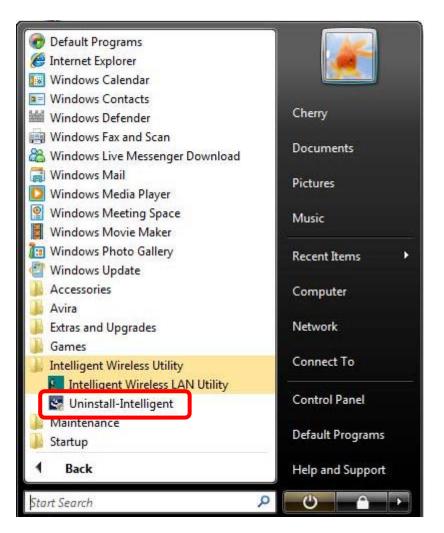
3. Then click **Finish** to complete uninstall.



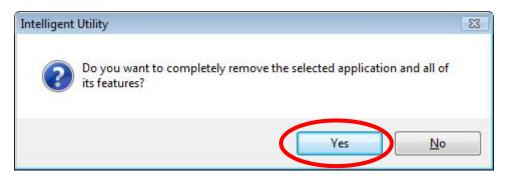
# For Windows Vista

To remove the utility and driver, please refer to below steps. (When removing the utility, the driver will be removed as well.)

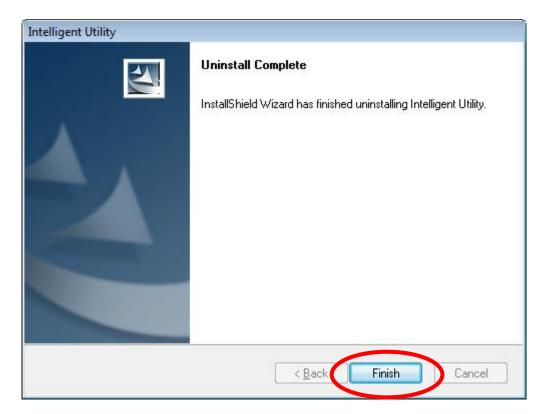
1. Go to Start → Programs →Intelligent Wireless LAN Utility→ Uninstall –Intelligent.



2. Click **Yes** to complete remove the selected application and all of its features.



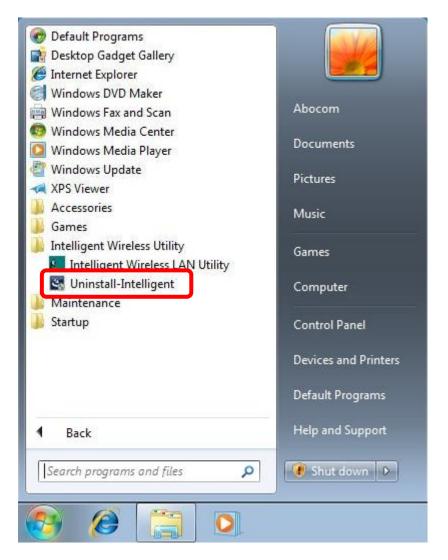
3. Finally, click **Finish** to complete uninstall.



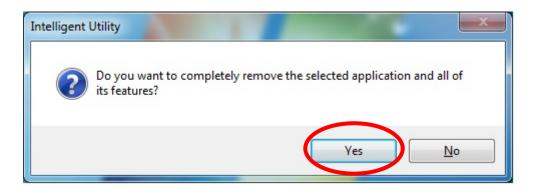
# For Windows 7

To remove the utility and driver, please refer to below steps. (When removing the utility, the driver will be removed as well.)

1. Go to Start → Programs →Intelligent Wireless Utility→ Uninstall –Intelligent.



2. Click **Yes** to complete remove the selected application and all of its features.



3. Finally, click **Finish** to complete uninstall.

