802.11b/g/n 2T2R Wireless Mini USB

WU5508

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.

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

IEEE 802.11b or 802.11g operation of this product in the U.S.A. is firmware-limited to channels 1 through 11.

IMPORTANT NOTE:

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. To maintain compliance with FCC RF exposure compliance requirements, please follow operation instruction as documented in this manual.

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

SAR compliance has been established in typical laptop computer(s) with USB slot, and product could be used in typical laptop computer with USB slot. Other application like handheld PC or similar device has not been verified and may not compliance with related RF exposure rule and such use shall be prohibited.

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.

Table of Contents

| CHAPTER 1: INTRODUCTION | 1 |
|----------------------------------|----|
| Features | |
| Physical Details | 1 |
| CHAPTER 2: INSTALLATION | 3 |
| For Windows 2000/XP | |
| Install Software | |
| Install Hardware | 5 |
| Verification | 5 |
| For Windows Vista | 6 |
| Install Software | 6 |
| Install Hardware | |
| Verification | |
| For Windows 7 | 9 |
| Install Software | 9 |
| Install Hardware | |
| Verification | |
| CHAPTER 3: NETWORK CONNECTION | 12 |
| How to Make a Connection | |
| How to Add a Profile | |
| CHAPTER 4: UTILITY CONFIGURATION | 15 |
| For Windows 2000/XP | |
| Station Mode | |
| Switch to AP Mode | |
| Soft AP mode | |
| For Windows Vista | |
| Station Mode | |
| Switch to AP Mode | |
| Soft AP mode | |
| For Windows 7 | |
| Station Mode | |
| Switch to AP Mode | |
| Soft AP mode | |

| CHAPTER 5: UNINSTALL | 61 |
|----------------------|----|
| For Windows 2000/XP | 61 |
| For Windows Vista | |
| For Windows 7 | |

Chapter 1: Introduction

The 802.11b/g/n Wireless Mini USB brings the latest technology, 802.11n standard. Close to the price of a wireless 11g dongle, Home/ SOHO users can enjoy download large file and multimedia by 300Mbps. Wireless security setup is friendly without configuring the utility. You only need to click the WPS push-button once, then can set up a simple but safe wireless network. It can upgrade your desktop or laptop to the next level and allows you to enjoy downloading, video streaming and online gaming at the same time. It can not only provide you better internet experience but also backward compatible with the existing 802.11b/g networks.

Features

- Ø Support Wireless N standard and compatible with 11n standard.
- Ø Backward compatible with IEEE 802.11 b/g network to ensure interoperability.
- $\boldsymbol{\emptyset}$ Support WPS in SW and HW for easy wireless security setup.
- Ø Support 802.11e, WMM for quality video and voice streaming over wireless connections.
- Ø Support WMM-PS.
- Ø Support WPA/PSK, WPA2/PSK high-level security.
- Ø Transmit data rate up to 300 Mbps. Receive data rate up to 300 Mbps. (2T2R solution).

Physical Details



WPS button and LED

| 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 2 minutes. |
|------------|--|
| LED | Off – Power off Solid Green – When associate with the Access Point or Ad-Hoc wireless workstation the LED will show solid green. |

| Blinking Green – Indicate the device is transmitting data through the |
|---|
| Access Point or Ad-Hoc wireless workstation. Also when the PBC button |
| is pressed, the LED will blink to indicate WPS status that the LED will |
| blink 2 seconds and off 2 seconds. |

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 **802.11b/g/n 2T2R Wireless Mini USB** 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.

 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 **802.11b/g/n 2T2R Wireless Mini USB** 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 **802.11b/g/n 2T2R Wireless Mini USB** 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 à All Programs à Intelligent Wireless Utility à 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 Profes Available Ne | twork gatus | Statistics V | Vi-Ei Protect Setun | |
|---------------------|-----------------------------|------------------|--------------|------------------------|----------|
| 🗍 🖓 802.11n/b/g 2cn | | . didi | | | |
| | SSID | Channel | Encryption | Network Authentication | Signal 🔼 |
| | (e) 3030 | 1 | WEP | Unknown | 42% |
| | (WR254E | 1 | None | Unknown | 42% |
| | IN ZVXEL | 1 | None | Unknown | 62% |
| | Equi ZvXEL-1 | 1 | None | Unknown | 46% |
| | (initial planexuser) | 1 | None | Unknown | 42% |
| | (initial airlive | 2 | None | Unknown | 42% |
| | (1) ZYXEL_3090_AP | 3 | AES | WPA2 Pre-Shared Key | 56% |
| | W ¹ ZyXEL-giga | 4 | TKIP | WPA Pre-Shared Key | 8% — |
| | SSID-00c473db | 5 | None | Unknown | 70% |
| | ^[0] 412 | 6 | TKIP/AES | WPA Pre-Shared Key/ | 88% |
| | Abocom-Wireless | 6 | None | Unknown | 60% |
| | ArthurAP | 6 | WEP | Unknown | 62% |
| | ^(m) ZyXEL_3090 | 8 | AES | WPA2 Pre-Shared Key | 74% |
| | 📢 mina | 9 | TKIP | WPA Pre-Shared Key | 72% |
| | Real DOCUMPE | 10 | TVID | MIDA Dro Charod Kov | 7007. 🎽 |
| | S | | | | 2 |
| | Bafra | -la | | i dd to Drofila | 1 |
| | Relies | ST1 | | Add to Profile | |
| | Note | | | | |
| | Double click on item | to join/creat | o profilo | | |
| | | to join () creat | e pronie. | | |
| <u> </u> | | | | | |
| Show Tray Icon | |] Disable Ac | lapter | | Close |
| Radio Off | | | | | |

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**.)

| WyComputer | General Profile Available Netwo | ork Statu: | s Statistics V | Vi-Ei Protect Setun | |
|------------|---------------------------------|------------|----------------|------------------------|----------|
| ™ | Available Network(s) | Leven | | | |
| | SSID | Channel | Encryption | Network Authentication | Signal 📥 |
| | (m) 3Q3Q | 1 | WEP | Unknown | 42% |
| | (1) WR254E | 1 | None | Unknown | 42% |
| | [[1]]ZyXEL | 1 | None | Unknown | 62% |
| | Eval ZyXEL-1 | 1 | None | Unknown | 46% |
| | (191) planexuser | 1 | None | Unknown | 42% |
| | (19) airlive | 2 | None | Unknown | 42% |
| | (1) ZYXEL 3090 AP | З | AES | WPA2 Pre-Shared Key | 56% |
| | VXEL-giga | 4 | TKIP | WPA Pre-Shared Key | 8% |
| | 100 SSID-00c473db | 5 | None | Unknown | 70% |
| | Cherry | 6 | TKIP/AES | WPA Pre-Shared Key/ | 88% |
| | ADOCOM-WIReless | 0 | None | Unknown | 00% |
| | 499 ArthurAP | 6 | WEP | Unknown | 62% |
| | ^{((p))} ZyXEL_3090 | 8 | AES | WPA2 Pre-Shared Key | 74% |
| | 👘 mina | 9 | TKIP | WPA Pre-Shared Key | 72% |
| | | 10 | TVID | MADA Dro Charod Koy | 700/. |
| | Refresh | | | Add to Profile | |
| | Note Double click on item to | join/creat | te profile. | | |
| | | 822 | 2 | | |

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 Prop | erties: | | |
|---|--|-----------------------|----------|
| Profile Name: | Cherry | 802.1x configure | |
| Network Name(SSID): | Cherry | EAP TYPE : | |
| | | GTC | ~ |
| | | Tunnel : Privision M | lode : |
| This is a computer-to access points are no | o-computer(ad hoc) network; wireless it used. | | ~ |
| Channel: | 11 (2462MHz) 💌 | Username : | |
| - Wireless network secu | urity | | |
| This network requires | s a key for the following: | Identity : | |
| Netv | vork Authentication: WPA2-PSK 🛛 💌 | | |
| | Data encryption: AES | Domain : | |
| | SPHRASE | Password : | |
| Key index (advanced |); 1 | Certificate : | |
| Network key: | | | |
| | | PAC : Auto Select PAC | |
| Confirm network key: | | | ~ |
| | | | |
| | | • | |
| ОК | Cancel | | |
| | | | |

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

| 👔 Intelligent 11n USB 1 | Wireless LAN Utility | |
|--------------------------|--|-----|
| Refresh(R) Mode(M) Abou | ut(A) | |
| B02.11n/b/g 2cn | General Profile Available Network Status Statistics Wi-Fi Protect Setup Available Profile(s) | |
| | Profile Name SSID Add | |
| | Remove | |
| | Edit | |
| | Duplicate | |
| | Set Default | |
| | | |
| | | |
| | | |
| | | |
| < | | |
| Show Tray Icon Radio Off | Disable Adapter | ose |

Chapter 4: Utility Configuration

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

<u>General</u>

The General page displays the detail information of current connection.

| 👔 Intelligent 11n USB V | /ireless LAN Utility 📃 🗆 🔀 |
|----------------------------|--|
| Refresh(R) Mode(M) About | :(A) |
| MyComputer 802.11n/b/g 2cn | General Profile Available Network Status Statistics Wi-Fi Protect Setup |
| | Speed: Ty:150 Mbpc By:150 Mbpc |
| | Type: Infrastructure |
| | Encrution: AEC |
| | SSID: Cherry |
| | |
| | Signal Strength: |
| | Link Quality: |
| Show Tray Icon | 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 Disable Adapter |
| O and a well Talk | |
| 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. |

| Speed | shows the current transmitting fate and fecerving fate. | |
|-----------------|---|--|
| 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 V | Vireless LAN Utility | |
|--------------------------|--|--|
| Refresh(R) Mode(M) About | t(A) | |
| B 🖁 MyComputer | General Profile Available Network Status Statistics Wi-Fi Protect Setup Available Profile(s) | |
| | Profile Name SSID Add Otherry Cherry | |
| | Remove | |
| | Edit | |
| | Duplicate | |
| | Set Default | |
| | | |
| Show Tray Icon | Disable Adapter Close | |

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

| Profile Name: | 802.3x configure | |
|---|-------------------|----------------|
| Network Name(SSID): | EAP TYPE : | |
| | | |
| - This is a computer-in-computer(ad hor) patiwosic witeless | Tunnel : | Privision Mode |
| access points are not used. | | |
| Channel (1 (1412/94)) | Usemane : | |
| Wireless network security | | |
| This network requires a key for the following: | Identity : | |
| Natwork Authentication: Open System | * | |
| Data encryption: Dicabled | Domain : | |
| Caseli Crassreale | Password : | |
| Plan indust full-according (| Certificates : | |
| Notwork kov | Search Concerno 1 | |
| | PAC : Auto | Salact Dec |
| Canfirm 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: | |
| | • TLS : 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. | |
| | • LEAP: 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. | |
| | • TTLS : 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. | |
| | • PEAP : 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. | |
| | 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. | |
| | Tunnel: 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. | |
| | Domain: Enter the domain of the network. | |
| | Password: Enter the password for server. | |
| Domono | Certificate: Choose server that issuer of certificates. | |
| Remove | Crick Kenove button to delete selected prome. | |
| Edit | Click Edit button to edit selected profile. | |
| Duplicate | Click Duplicate 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.

| fresh(R) Mode(M) Abou | it(A) | | | | |
|-----------------------|-------------------------------|------------------|------------|------------------------|----------|
| MyComputer | General Profile Available Net | work Status | Statistics | Wi-Fi Protect Setup | |
| ₩~¥ 802.11n/b/g 2cn | Available Network(s) | | | | |
| | SSID | Channel | Encryption | Network Authentication | Signal 📥 |
| | (m) 3Q3Q | 1 | WEP | Unknown | 42% |
| | 10 WR254E | 1 | None | Unknown | 42% |
| | 📢 ZyXEL | 1 | None | Unknown | 62% |
| | 🚧 ZyXEL-1 | 1 | None | Unknown | 46% |
| | (1931) planexuser | 1 | None | Unknown | 42% |
| | ((p)) airlive | 2 | None | Unknown | 42% |
| | WZyXEL_3090_AP | З | AES | WPA2 Pre-Shared Key | 56% |
| | 🐶 ZyXEL-giga | 4 | TKIP | WPA Pre-Shared Key | 8% - |
| | 👘 SSID-00c473db | 5 | None | Unknown | 70% |
| | Cherry | 6 | TKIP/AES | WPA Pre-Shared Key/ | 88% |
| | Abocom-Wireless | 6 | None | Unknown | 60% |
| | 41 ArthurAP | 6 | WEP | Unknown | 62% |
| | ^{((*))} ZyXEL_3090 | 8 | AES | WPA2 Pre-Shared Key | 74% |
| | (mina) | 9 | TKIP | WPA Pre-Shared Key | 72% |
| | (in) DOCUADE | 10 | דעזה | MIDA Dro Charod Koy | 7007. |
| | | | | | 2 |
| | Refres | h | | Add to Profile |] |
| | Note | | | | |
| | Double click on item t | to join/creat | e profile. | | |
| (Table) | L | | | | |
| | | Dissellation and | | | |

| 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.

Statistics

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

| fresh(R) Mode(M) About(|) | |
|-------------------------|---|-------|
| MyComputer | eneral Profile Available Network Status Statistics Wi-Fi Protect Setu | P |
| 0.000 C | Counter Name | Value |
| | | 2060 |
| | TX OK | 2909 |
| | BX OK | 964 |
| | Rx Packet Count | 964 |
| | Rx Retry | 93 |
| | Rx ICV Error | 0 |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
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| | | |
| | | |
| | | |
| | | |
| | Decet | |
| | Keset | |
| | | |
| (man) | | |
| | | |
| Chow Trow Icon | Dicable 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 Wir | eless LAN Utility | |
|------------------------------|--|-------|
| Refresh(R) Mode(M) About(A) |) | |
| MyComputer | eneral 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 |

| 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 " Renew " button to re-generate new PIN Code. | |
| Pin Input Config (PIN) | Click the Pin Input Config (PIN) 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 11e USB W | ireless LAN Utility | |
|---------------------------|---|-------|
| Refresh(R' Mode(M) About(| | |
| 🖃 😼 IyC 🗸 Station | eral Profile Available Network Status Statistics Wi-Fi Protect Setup | |
| Access Point | 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 | Ξ. |
| | 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 |

Soft AP mode

<u>General</u>

| 🐔 Intelligent 11 n USB Wireless LAN Utility 📃 🗖 🔀 | | |
|---|--|--|
| Refresh(R) Mode(M) About | (A) | |
| 🖃 🌷 MyComputer | General Advanced Statistics ICS | |
| | SSID: softAp | |
| | BSSID: 00:E0:4C:71:00:01 | |
| | Association Table | |
| | AID MAC Address Life Time | |
| | 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. | |

- 25 -

| Winstere Nationsk Donnasting | |
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| Contro Marcan Control Part Made | |
| Hoters (Second Second S | |
| THE WOR PARTICICALLY: AND A | |
| This is a computer to computer(ad hoc) network, weeker access per to an not used. | |
| | |
| Wheless network security This national year area a key for the following | |
| Network Authentication: Open System | |
| Data encryption: Disabled | |
| ALCI DAVID-HARE | |
| | |
| Key index (advanced): | |
| Network key: | |
| Confirm and work laws | |
| Carlint network ray: | |
| | |
| OK Cancel | |
| Natawala Nama (SSID): Llaar oon ak | |
| network Name (SSID): User can ch | lange the network name of this access |
| point. | |
| Channel: User can select the channe | el form the pull-down list. |
| Wireless network security | |
| Network Authentication: There are modes including Open System, Shar | e several types of authentication ed Key, WPA-PSK and WPA2-PSK. |
| Data encryption: For Open System | and Shared Key authentication mode. |
| the selection of encryption type is W | EP For WPA-PSK WPA2-PSK |
| authentication mode, the encryption | type supports both TKIP and AFS |
| addicine and mode, the eneryption | type supports both TKIT and ALS. |
| When encryption is set to WFP | |
| when energy prion is set to when | |
| ASCII: Only valid when using WEP | encryption algorithm. When key |
| length is set to 64 bits user can enter | 5 ASCII characters (case sensitive). |
| and 128 bits for 13 ASCII characters | (case sensitive). |
| | (case sensitive). |
| PASS PHRASE: Only valid when u | sing WEP encryption algorithm. |
| When key length is set to 64 bits use | r can enter 10 Hexadecimal characters |
| (0~9~a~f) and 128 bits for 26 Hexad | ecimal characters $(0 \sim 9 \approx 1)$ |
| (* <i>2</i> , <i>u i</i>) and 120 onto 101 20 <u>Hexad</u> | <u>()</u> ()), u 1). |
| Key index (advanced): Select 1~4 k | ey index form the pull-down menu. |
| must match with the connected AP's | kev index. |
| | - , |
| When encryption is set to WPA-PS | SK/ WPA2-PSK |
| | |
| Network key: Enter network key at | least 8 to 64 characters. |
| Confirm network key: Enter netwo | rk key again to confirm. |

Advanced

| 👔 Intelligent 11n USB W | Vireless LAN Utility | |
|--------------------------|--|-------|
| Refresh(R) Mode(M) About | :(A) | |
| Refrest(K) Mode(M) About | General Advanced Statistics ICS General Beacon Interval 100 DTIM Period: 3 Preamble Mode Long Image: Comparison of the second state second | |
| Show Tray Icon | Disable Adapter | Ilose |

| 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 Short or Long . |
| Set Defaults | Click to use the system default value. |
| Apply | Click to apply the above settings. |

Statistics

| efresh(R) Mode(M) Abou | (A) | | |
|-------------------------------------|---------------------------------|-------|-------|
| 🖃 💡 MyComputer 😪 802.11n/b/g 2cn | General 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 | |
| | | | |
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| | Decet | | |
| | Reset | | |
| | | | |
| | | | |
| × | | | |
| Show Tray Icon | 📃 Disable Adapter | | Close |
| | | L | 0000 |

| 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 Wi | reless LAN Utility | | |
|----------------------------|---|---|-------|
| Refresh(R) Mode(M) About(A | 4) | | |
| B02.11n/b/g 2cn | General Advanced Statistics IC Setting Internet Connection | n Sharing (ICS) | |
| | ConnName | Device Name | |
| | A Local Area Connection | Realtek RTL8139 Family PCI Fast Ethernet NIC Bluetooth PAN Network Adapter | |
| | Public Network | | X |
| Show Tray Icon | 〔 | Apply | Close |
| Radio Off | | L | |

For Windows Vista

Station Mode

| Intelligent 11n USB Wire | less LAN Utility | |
|--|---|-------|
| Refresh(<u>R</u>) Mode(<u>M</u>) A | bout(<u>A</u>) | |
| MyComputer | General Profile Available Network Status Statistics Wi-Fi Protect Setup | |
| 802.11n/b/g 2c | Status: Associated | |
| | Speed: Tx:150 Mbps Rx:150 | |
| | Type: Infrastructure | |
| | Encryption: AES | |
| | SSID: Cherry | |
| | Signal Strength: 100% | |
| | 100% | |
| | Link Quality: | |
| | | |
| | | |
| | 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 | |
| | | |
| | | |
| < III > | | |
| Show Tray Icon | Disable Adapter | Close |
| Radio Off | | |

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

<u>General</u>

The General page displays the detail information of current connection.

| Intelligent 11n USB Wire | less LAN I | Jtility | | | | | | - • • |
|--|------------------|----------|-------------------|---------|------------|---------------------|-------|-------|
| Refresh(<u>R</u>) Mode(<u>M</u>) A | bout(<u>A</u>) | | | | | | | |
| □ g MyComputer | General | Profile | Available Network | Status | Statistics | Wi-Fi Protect Setup | [| |
| 802.11n/b/g 2c | | | Status: Associa | ted | | | | |
| | | | Speed: Tx:150 | Mbps R | x:150 | | | |
| | | | Type: Infrastr | ucture | | | | |
| | | E | ncryption: AES | | | | | |
| | | | SSID: Cherry | | | | | |
| | | Signal | Strength: | | | | 100% | |
| | | | | | | | 1000/ | |
| | | Lin | k Quality: | | | | 100% | |
| | | | | | | | | |
| | | | | | | | | |
| | Netwo | ork Addı | ess: | | | | | |
| | | | MAC Address: (| 0:E0:40 | C:71:00:01 | l, | | |
| | | | IP Address: 19 | 92.168. | 1,100 | | | |
| | | | Subnet Mask: 2 | 55.255. | 255.0 | | | |
| | | | Gateway: 19 | 92.168. | 1.123 | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | _ | | | _ | | _ |
| | | | | ReNe | w IP | | | |
| | | | | | | | | |
| | | | | | | | | |
| < <u> </u> | | | | _ | | | | |
| Show Tray Icon | | | Disa | ble Ada | pter | | | Close |
| Radio Off | | | | | | | | |

| General Tab | | | | | |
|--|---|--|--|--|--|
| StatusShows the current connected status. If there is no connection, it w Not Associated. If been connected, the system will show Ass 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 |
|----------|-----------|-------|----|--------|----|--------|----|---------|------|-----|-----------|
| Kenew 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.

| Refresh(<u>R</u>) Mode(<u>M</u>) Al | bout(<u>A</u>) | | | | | | | | | |
|---|----------------------|---------|-----------------|-------------|------------|---------------------|-------------|--|--|--|
| MyComputer | General | Profile | Available Netwo | ork Status | Statistics | Wi-Fi Protect Setup | | | | |
| | Available Profile(s) | | | | | | | | | |
| | Profi | ie Name | e SS | ID | | | Add | | | |
| | () C | herry | C | ierry | | | Remove | | | |
| | | | | | | | Edit | | | |
| | | | | | | | Duplicate | | | |
| | | | | | | | Set Default | | | |
| | | | | | | | | | | |
| | • | | m | | • | | | | | |
| | | | | | | | | | | |
| Show Tray Icon Radio Off | | | | Disable Ada | opter | | Close | | | |

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

| Wireless Network Properties: | |
|--|---|
| This is a computer-to-computer(ad hoc) network; wire access points are not used. | reless |
| Profile Name: | |
| Network Name(SSID): | |
| Channel: 1 (2412MHz) - | |
| Wireless network security This network requires a key for the following: | |
| Network Authentication: Open System | m • |
| Data encryption: Disabled | |
| | |
| | |
| Key index (advanced): 1 + | |
| Network key: | |
| Confirm network key: | |
| | |
| OK Cancel |] |
| This is a computer-to-computer (ad | d hac) network: wireless access |
| points are not used: This function is | s selected to enable the ad hoc |
| network type that computers should b | be setup at the same channel to |
| communicate to each other directly w | vithout access point, users can share |
| files and printers between each PC and | nd laptop. |
| Profile Name: Users can enter profile | e name at will. |
| Network Name (SSID): The SSID is | s the unique network name |
| (case-sensitive) shared among all wir | eless access points in the wireless |
| network. The name must be identical | for all devices and wireless access |
| points attempting to connect to the sa | ame network. |
| Channel: If set to ad hoc network typ pull-down menu. | pe, user can select channels form the |
| Wireless network security | |
| Network Authentication: There are modes including Open System, Share WPA 802.1X, WPA2 802.1X and W | several types of authentication ed Key, WPA-PSK, WPA2-PSK, EP 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 802.1 | X and WPA2 802.1X authentication |
| mode, the encryption type supports be | UII INIF 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 and 128 bits for 13 ASCII characters | <u>5 ASCII characters</u> (case sensitive), (case sensitive). |
| PASS PHRASE: Only valid when us | sing 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 a ~f). | 26 <u>Hexadecimal characters</u> (0~9, |
| Key index (advanced): Select 1~4 ke | ev 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). | |
| | ЕАР ТҮРЕ: | |
| | • TLS : 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. | |
| | • LEAP: 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. | |
| | • TTLS : 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. | |
| | • PEAP : 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. | |
| | 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. | |
| | Tunnel: 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. | |
| | Domain: Enter the domain of the network. | |
| | Password: Enter the password for server. | |
| D | Click D emonstration to delete select a la Cl | |
| Kemove | Click Kellove button to delete selected profile. | |
| Edit | Click Edit button to edit selected profile. | |
| Duplicate | Click Duplicate 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.

| MyComputer | General Profile Available | Network Statu | s Statistics | Wi-Fi Protect Setup | |
|----------------|------------------------------|----------------|--------------|------------------------|---------|
| 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% |
| | (^{(0)]} 412 | 6 | TKIP/AES | WPA Pre-Shared Key/ | 72% |
| | (9) Abocom-Wireless | 6 | None | Unknown | 44% |
| | (19) Abocom-Wireless | 6 | None | Unknown | 42% |
| | (19) ArthurAP | 6 | WEP | Unknown | 72% ≡ |
| | [[9]] ZyXEL_3090_62 | 8 | AES | WPA2 Pre-Shared Key | 56% |
| | ((9)) mina | 9 | TKIP | WPA Pre-Shared Key | 76% |
| | (19) 3GSHARE | 10 | TKIP | WPA Pre-Shared Key | 62% |
| | GT2000Adhoc | 10 | None | Unknown | 72% |
| | ((9)) Untitled | 10 | None | Unknown | 88% |
| | ((9) ZyXEL | 10 | None | Unknown | 56% |
| | (💷 ZyXEL | 10 | None | Unknown | 42% |
| | (19) Abocom-Wireless | 11 | None | Unknown | 96% |
| | (P) Cherry | 11 | AES | WPA Pre-Shared Key/ | 100% |
| | ((9)) airlive | 11 | None | Unknown | 48% - |
| | < | | | | F |
| | Refr | esh | | Add to Profile | |
| | Note Double click on iter | m to join/crea | ate 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.

Statistics

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

| fresh(<u>R</u>) Mode(<u>M</u>) Al | out(<u>A</u>) | |
|---------------------------------------|---|---------------------|
| - 😽 MyComputer - 🤮 802.11n/b/g 2c | General Profile Available Network Status Statistics W | /i-Fi Protect Setup |
| | Counter Name | Value |
| | Tx OK | 247 |
| | Tx Error | 0 |
| | Rx OK | 99 |
| | Rx Packet Count | 99 |
| | Rx Retry | 7 |
| | RX ICV Error | 0 |
| | | |
| | | |
| | | |
| | | |
| | | |
| | L | |
| | Reset | |
| | Reset | |
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| ·) | | |

| Statistics | | |
|-----------------|---|--|
| Tx OK | 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 Wirel | less LAN Utility |
|------------------------------|--|
| Refresh(R) Mode(M) Al | bout(<u>A</u>) |
| MyComputer 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 : 54285620 Pin Input Config (PIN) Push Button After pushing the PBC button.Please push the physical button on your After 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 " Renew " button to re-generate new PIN Code. |
| Pin Input Config (PIN) | Click the Pin Input Config (PIN) 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 Wirel | ess LAN Utility | |
|---------------------------|---|-------|
| Refresh(R) Mode(M) Ab | out(A) | |
| 🖃 🚼 My 🖌 Station | e Available Network Status Statistics Wi-Fi Protect Setup | |
| Access Po | sint Status: Associated | |
| | Speed: Tx:150 Mbps Rx:150 | |
| | Type: Infrastructure | |
| | Encryption: AES | |
| | SSID: Cherry | |
| | Signal Strongth: | |
| | Signal Sciengen. 100% | |
| | Link Quality: 100% | |
| | | |
| | | |
| | Network Address: | |
| | MAC Address: 00:E0:4C:71:00:01 | |
| | | |
| | IP Address: 192.168.1.100 | |
| | Subnet Mask: 255.255.25.0 | |
| | Gateway: 192.168.1.123 | |
| | | |
| | | |
| | | |
| | | |
| | ReNew IP | |
| | | |
| | | |
| < <u> </u> | | |
| Show Tray Icon | Disable Adapter | Close |
| Radio Off | | |

Soft AP mode

<u>General</u>

| 📔 Intelligent 11n USB Wirele | ss LAN Utility | |
|------------------------------|--|---------|
| Refresh(R) Mode(M) Abo | ut(<u>A</u>) | |
| MyComputer | General Advanced Statistics ICS | |
| 002.111/0/92C | | |
| | SSID: Cherry-PC_AP | |
| | BSSID: 00:E0:4C:71:00:01 | |
| | Association Table | |
| | AID MAC Address Life Time | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | Config | |
| | | |
| | | |
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| | | |
| | | |
| | | |
| ↓ | | |
| Show Tray Icon | Disable Adapter | Close |
| | | |
| Osmanal | | |
| 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 Prope | erties. |

| Vireless 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): Cherry-PC_AP | |
| Channel: 1 (2412MHz) 🔻 | |
| Wireless network security | |
| This network requires a key for the following: Network Authentication: Onen System | |
| | |
| | |
| | |
| Key index (advanced): | |
| Network key: | |
| | |
| Confirm network key: | |
| | |
| OK <u>C</u> ancel | |
| Authentication: There are several types of authentication nodes including Open System, Shared Key, WPA-PSK and WPA2-I ata encryption: For Open System and Shared Key authentication n e selection of encryption type is WEP. For WPA-PSK_WPA2-PSK | K. ode, |
| ithentication mode, the encryption type is while it of white Disk, white of AE | |
| hen encryption is set to WEP | |
| SCII: Only valid when using WEP encryption algorithm. When key ngth is set to 64 bits user can enter <u>5 ASCII characters</u> (case sensition 128 bits for 13 <u>ASCII characters</u> (case sensitive). | .), |
| ASS PHRASE: Only valid when using WEP encryption algorithm. /hen key length is set to 64 bits user can enter <u>10 Hexadecimal char</u> 0~9, a~f) and 128 bits for 26 <u>Hexadecimal characters</u> (0~9, a~f). | <u>:ters</u> |
| ey index (advanced): Select 1~4 key index form the pull-down me ust match with the connected AP's key index. | a, |
| | , |
| /hen encryption is set to WPA-PSK/ WPA2-PSK | 2 |
| /hen encryption is set to WPA-PSK/ WPA2-PSK | , |

Advanced

| 👔 Intelligent 11n USB Wirel | ess LAN Utility | |
|---|---|-------|
| Refresh(<u>R</u>) Mode(<u>M</u>) Ab | pout(<u>A</u>) | |
| MyComputer 802.11n/b/g 2c | General Advanced Statistics ICS General Beacon Interval Image: DTIM Period: 3 3 Preamble Mode Short Image: Short 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 Short or Long . |
| Set Defaults | Click to use the system default value. |
| Apply | Click to apply the above settings. |

Statistics

| efresh(R) Mode(M) About(A | 0 | | |
|---------------------------|-----------------------------|-------|--|
| MyComputer Gene | ral Advanced Statistics ICS | | |
| | Counter Name | Value | |
| | Тх ОК | 3436 | |
| | Tx Error | 0 | |
| | Rx OK | 218 | |
| | Rx Packet Count | 218 | |
| | KX Ketry | 208 | |
| | RX ICV EII0 | 0 | |
| | | | |
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| | Reset | | |
| | <u>.</u> | | |
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| + | | | |
| | | | |

Statistics

| Tx OK | 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.

| Refresh(<u>R</u>) Mode(<u>M</u>) A | About(<u>A</u>) | |
|--|---|----|
| B. Solution MyComputer | 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 ــــــــــــــــــــــــــــــــــــ | |
| | Public Network Local Area Connection SiS 900-Based PCI Fast Ethernet Adapter | |
| | Apply | |
| | | |
| < <u> </u> | | |
| Show Tray Icon | Disable Adapter Close | se |

For Windows 7

Station Mode

| Intelligent 11n USB Wire | eless LAN Utility | x |
|--|--|---|
| Refresh(<u>R</u>) Mode(<u>M</u>) A | bout(<u>A</u>) | |
| B- S MyComputer | General Profile Available Network Status Statistics Wi-Fi Protect Setup | |
| | Status: Not Associated Speed: N/A Type: N/A Encryption: N/A SSID: Signal Strength: Link Quality: | |
| | Network Address: MAC Address: IP Address: 0.0.0.0 Subnet Mask: 0.0.0.0 Gateway: | |
| 4 III • | ReNew IP | |
| Show Tray Icon Radio Off | Disable Adapter Virtual WiFi disallowed Close | |

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

General

| Intelligent 11n USB Wire | eless LAN Utility | 3 |
|--|---|---|
| Refresh(<u>R</u>) Mode(<u>M</u>) A | bout(<u>A</u>) | |
| E 9 MyComputer 802.11b/g/n 21 | General Profile Available Network Status Statistics Wi-Fi Protect Setup Status: Not Associated Speed: N/A Type: N/A | |
| | Encryption: N/A SSID: Signal Strength: | |
| | Network Address: | |
| | MAC Address: IP Address: 0.0.0.0 Subnet Mask: 0.0.0.0 Gateway: | |
| < _ m > | ReNew IP | |
| Show Tray Icon Radio Off | Disable Adapter Close Virtual WiFi disallowed | |

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 |

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.

| fresh(<u>R)</u> Mode(<u>M</u>) Al | oout(<u>A</u>) | | | | | | |
|--------------------------------------|------------------|-----------|-------------------|---------|------------|---------------------|-------------|
| MyComputer | General | Profile | Available Network | Status | Statistics | Wi-Fi Protect Setup | |
| | Availat | ole Profi | le(s) | | | | |
| | Profi | le Name | SSID | | | | Add |
| | | | | | | | Remove |
| | | | | | | | Edit |
| | | | | | | | Duplicate |
| | | | | | | | Set Default |
| | | | m | | • | | |
| | | | | | | | |
| Show Tray Icon | | | Disa | ble Ada | pter | | Close |

| Profile Tab | |
|--------------|---|
| Profile Name | Here shows a distinctive name of profile in this column. |
| SSID | The SSID is the unique name shared among all wireless access points in the wireless network. |
| Add | Click Add 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) - |
| This network requires a key for the following: |
| Network Authentication: Open System |
| |
| |
| Key index (advanced): |
| |
| Confirm network key: |
| OK Cancel |
| |
| 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 |
| 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> 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. | | |
| | Confirm network key: Enter network key again to confirm. | | |
| | When encryption is set to WPA 802.1X/ WPA2 802.1X/ WEP | | |
| | 802.1 | | |
| | When users use radius server to authenticate client certificate for WPA authentication mode (WPA authentication do not support EAP Method-MD5-Challenge). | | |
| | EAP TYPE: | | |
| | • TLS: 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. | | |
| | • LEAP: 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. | | |
| | • TTLS : 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. | | |
| | • PEAP : 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. | | |
| | 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. | | |
| | Tunnel: 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. | | |
| | Domain: Enter the domain of the network. | | |
| | Password: Enter the password for server. | | |
| | Certificate: Choose server that issuer of certificates. | | |
| Remove | Click Remove button to delete selected profile. | | |
| Edit | Click Edit button to edit selected profile. | | |
| Duplicate | Click Duplicate 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.

| 🖃 🦞 MyComputer | General Profile Available | Vetwork Statu | us Statistics | Wi-Fi Protect Setup | | | | |
|----------------|------------------------------|----------------|---------------|------------------------|---------|--|--|--|
| 802.11b/g/n 21 | Available Network(s) | | | | | | | |
| | SSID | Channel | Encryption | Network Authentication | Signa ^ | | | |
| | ((9)) airlive1 | 1 | None | Unknown | 46% | | | |
| | ((9)) perish0 | 1 | AES | WPA2 Pre-Shared Key | 70% | | | |
| | ((9) perish1 | 1 | WEP | Unknown | 70% | | | |
| | ((9) perish2 | 1 | AES | WPA Pre-Shared Key | 56% | | | |
| | ((9) perish3 | 1 | TKIP/AES | WPA Pre-Shared Key/ | 56% | | | |
| | ((9) perish4 | 1 | None | Unknown | 70% ≡ | | | |
| | ((q)) skll | 3 | TKIP | WPA Pre-Shared Key | 46% | | | |
| | ⁽⁽⁹⁾⁾ 412 | 6 | TKIP/AES | WPA Pre-Shared Key/ | 76% | | | |
| | (19) Abocom-Wireless | 6 | None | Unknown | 44% | | | |
| | (m) GIGA_ROUTER-07 | 6 | None | Unknown | 44% | | | |
| | (m)HT_AP1 | 6 | None | Unknown | 70% | | | |
| | ((p)) HT_AP2 | 6 | None | Unknown | 74% | | | |
| | ((p)) HT_AP3 | 6 | None | Unknown | 70% | | | |
| | ((9) ZyXEL | 6 | None | Unknown | 74% | | | |
| | ((9)) airlive | 6 | None | Unknown | 72% | | | |
| | (የሳ) ap-game-BFF7B0 | 7 | None | Unknown | 44% | | | |
| | (mail ap-pc-BFF7B0 | 7 | None | Unknown | 48% | | | |
| | (m) WR5506_3090_T | 8 | AES | WPA2 Pre-Shared Key | 46% * | | | |
| | | m | | | + | | | |
| | Refr | esh | | Add to Profile | | | | |
| | Note Double click on iter | m to join/crea | ate 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 | eless LAN Utility | |
|--|--|-------|
| Refresh(<u>R</u>) Mode(<u>M</u>) Al | bout(<u>A</u>) | |
| B- WyComputer | General Profile Available Network Status Statistics Wi-Fi Protect Setup | |
| | ManufacturerIntelligentNDIS Driver Version1006.0.614.2010Short Radio HeaderNoEncryptionAESAuthenticateWPA2-PSKChannel Set11MAC Address00:E0:4C:81:78:00Data Rate (AUTO)Tx:150 Mbps Rx:120 Mb | ps |
| | Channel (Frequency)11 (2462 MHz)StatusAssociatedSSIDCherry3312Network TypeInfrastructurePower Save ModeNoneAssociated AP MAC00:E0:4C:33:12:01Up Time (hh:mm:ss)0:12:23 | |
| III → ✓ Show Tray Icon Radio Off | Disable Adapter | llose |

Statistics

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

| h(<u>R)</u> Mode(<u>M</u>) A | bout(<u>A</u>) | |
|---------------------------------|---|---------------------|
| MyComputer | General Profile Available Network Status Statistics V | Vi-Fi Protect Setup |
| 802.11b/g/n 21 | | |
| | | |
| | Counter Name | Value |
| | Tx OK | 0 |
| | Tx Error | 0 |
| | Rx OK | 0 |
| | Rx Packet Count | 0 |
| | Rx Retry | 0 |
| | Rx ICV Error | 0 |
| | | |
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| | Paret | |
| | Keset | |
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| how Tray Icon | Disable Adaptor | [|
| now nay icon | | Clo |

| Statistics | | | |
|-----------------|---|--|--|
| Tx OK | 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.

| resh(<u>R)</u> Mode(<u>M</u>) A | .bout(<u>A</u>) |
|------------------------------------|--|
| 🦞 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 : 57755823 |
| | 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 |

| 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 " Renew " button to re-generate new PIN Code. |
| Pin Input Config (PIN) | Click the Pin Input Config (PIN) 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>Virtual WiFi</u>

| esh(<u>R</u>) Mode(<u>M</u>) Abo | out(<u>A</u>) | | | | | | |
|--------------------------------------|-------------------------|----------------------|--|-------------------------|--------------------------------|---------------------|--------------|
| MyComputer | General | Profile | Available Network | Status | Statistics | Wi-Fi Protect Setup | Virtual WiFi |
| | ⊽ Vir | tual W | iFi Soft AP - Start SSID: ABO BSSID: 00:E ation Table | ed COM-PC 0:4C:81 | -26050 :78:00 | | |
| | | AID | MAC Address | | Life 7 | īme | |
| | | | | | | | |
| | <mark>▼</mark> Se Se | tting In | nternet Connectio | on Sharir | Config ng (ICS) | | Apply |
| | ☑ Se Se | tting Ir elect Pu | nternet Connectio ublic Network L1 Gigabit Ethern | on Sharin net 10/1 | Config ng (ICS) 00/1000E | ase-T Controller | Apply |
| | V Se | tting In elect Pu | nternet Connectio Jblic Network I L1 Gigabit Etherr | on Sharir net 10/1 | Config ng (ICS) 00/1000E | ase-T Controller | Apply |

| Virtual WiFi Tab | | | |
|--|---|--|--|
| Virtual WiFi Soft AP | Check to enable the Virtual WiFi Soft AP function, other clients can connect with this virtual soft AP, and it also can act as a client to connect with other AP. | | |
| Association Table | Here lists clients that connected to the Virtual WiFi Soft AP. | | |
| Setting Internet Connection Sharing(ICS) | Check to enable this function, and select the network adapter that you would like to connect the Internet to. | | |

<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 | less LAN Utility |
|------------------------------|---|
| Refresh(R) Mode(M) At | aout(A) |
| My Station Access Pi | e Available Network Status Statistics Wi-Fi Protect Setup Status: Not Associated Speed: N/A Type: N/A Encryption: N/A SSID: Signal Strength: Link Quality: |
| | Network Address: MAC Address: IP Address: 0.0.00 Subnet Mask: 0.0.00 Gateway: ReNew IP |
| Show Tray Icon Radio Off | Disable Adapter Close Virtual WiFi disallowed |

Soft AP mode

<u>General</u>

| Intelligent 11n USB Wirel | ess LAN Utility |
|---------------------------|--|
| Refresh(R) Mode(M) Ab | out(<u>A</u>) |
| | General Advanced Statistics ICS SSID: Abocom-PC_AP BSSID: 00:E0:4C:81:78:00 Association Table |
| | AID MAC Address Life Time |
| | |
| Show Tray Icon 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. |

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| |
| d Shared Key authentication mode, P. For WPA-PSK, WPA2-PSK, both TKIP and AES. |
| |
| ncryption algorithm. When key |
| ease sensitive). |
| an enter <u>10 Hexadecimal characters</u> (auto sensitive), ng WEP encryption algorithm. an enter <u>10 Hexadecimal characters</u> imal characters (0~9, a~f). |
| an enter <u>10 Hexadecimal characters</u> imal characters (0~9, a~f). |
| ng WEP encryption algorithm. an enter <u>10 Hexadecimal characters</u> imal characters (0~9, a~f). index form the pull-down menu, ey index. / WPA2-PSK |
| wase sensitive). ng WEP encryption algorithm. an enter <u>10 Hexadecimal characters</u> <u>imal characters</u> (0~9, a~f). windex form the pull-down menu, ey index. / WPA2-PSK |
| |

Advanced

| Intelligent 11n USB Wirel | ess LAN Utility | |
|------------------------------|--|-------|
| Refresh(R) Mode(M) Ab | out(<u>A</u>) | |
| MyComputer | General General Beacon Interval DTIM Period: 3 Preamble Mode Short 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 Short or Long . |
| Set Defaults | Click to use the system default value. |
| Apply | Click to apply the above settings. |

Statistics

| resh(K) Mode(M) Abou | t(<u>A)</u> | | |
|----------------------|--------------------------------|---------------------------------------|--|
| YComputer G | eneral Advanced Statistics ICS | | |
| | Counter Name | Value | |
| | Tx OK | 728 | |
| | Tx Error | 0 | |
| | Rx OK | 0 | |
| | Rx Packet Count | 0 | |
| | Rx Retry | 0 | |
| | Rx ICV Error | 0 | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | · · · · · · · · · · · · · · · · · · · | |
| | | | |
| | Reset | | |
| | | | |
| | | | |

Statistics

| Tx OK | 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.

| Refresh(<u>R</u>) Mode(<u>M</u>) A | pout(<u>A</u>) |
|--|--|
| B. S. MyComputer | General Advanced Statistics ICS Setting Internet Connection Sharing (ICS) |
| | ConnName Device Name |
| | Local Area Connection Atheros L1 Gigabit Ethernet 10/100/1000Base-T Con |
| | × Þ |
| | Public Network |
| | Apply |
| < ► ✓ Show Tray Icon ■ Radio Off | 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 à All Programs à Intelligent Wireless Utilityà 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 à Programs à Intelligent Wireless LAN Utilityà 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 à Programs à Intelligent Wireless Utilityà Uninstall -Intelligent.

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

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

