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.

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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
	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	
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	
	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	
·)		

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	
↓ 		
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	
	Reset		
	<u>.</u>		
+			

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
	Paret	
	Keset	
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.

ess
•
•
 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.

