





Mvix Nubbin 802.11n Wireless USB2.0 Adapter



SPECIFICATIONS

IEEE 802.11 b/g/n standards compliant	
Chip antenna (2dBi) *I (Peak Gain)	
Windows 2000, XP, Vista, Mac OS, Linux OS	
WEP 64/128, WPA, WPA2	
802.11b/g/n USA (FCC): 2.412GHz ~ 2.462GHz Europe (ETSI): 2.412GHz ~ 2.472 GHz Japan (TELEC): 2.412GHz ~ 2.472GHz	
802.11b/g/n:	
USA (FCC) 11 channels; EU (ETSI) 13 channels;	
Japan (TELEC) 13 channels	
802.11b: 1, 2, 5.5, 11Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11n(20MHz):MCS0~7, up to 72.22Mbps 802.11n(40MHz):MCS0~7, up to 150Mbps	
802.11b : 16+/-1.5 dBm (Typical) 802.11g : 12+/-1.5 dBm (Typical) Wireless-N : 12+/-1.5 dBm (Typical)	
b Mpbs :-76dBm g 54Mpbs :-65dBm n-HT20 72.22Mpbs :- 62dBm n-HT40 50Mpbs :-59dBm	
Weight : 2.7 g Dimension :Condensing30.0(L)*14.00(W)*7.0(H) mm Operating Temp :02 to 452 Operating Humidity : 10% to 90% Non- Condensing	
DC 5V	
FCC, CE	18mm
MS-811N Supports (WMM®	Wi-Fi Multimedia QOS and WMM-PS®) Small, Unobtrusive Size Protrudes less than 2cm from USB Port
	IEEE 802.11 b/g/n standards compliant Chip antenna (2dBi) *1 (Peak Gain) Windows 2000, XP, Vista, Mac OS, Linux OS WEP 64/128, WPA, WPA2 802.11b/g/n USA (FCC): 2.412GHz ~ 2.462GHz Europe (ETSI): 2.412GHz ~ 2.472 GHz Japan (TELEC): 2.412GHz ~ 2.472GHz 802.11b/g/n: USA (FCC) 11 channels; EU (ETSI) 13 channels; Japan (TELEC) 13 channels 802.11b: 1, 2, 5.5, 11Mbps 802.11b: 1, 2, 5.5, 11Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11g: 12, 4, 15, dBm (Typical) 802.11g: 12+/-1.5 dBm (Typical) 802.11g: 12+/-1.5 dBm (Typical) Wireless-N: 12+/-1.5 dBm (Typical) Wireless-N: 12+/-1.5 dBm (Typical) Wireless-N: 12+/-1.5 dBm (Typical) Weight: 2.7 g Dimension : 30.0(L)*14.00(W)*7.0(H) mm Operating Temp : 0D co 5V FCC, CE MS-811N Supports

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
- FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Country Code Statement

For product available in the USA/Canada market, only channel 1~11 can be operated. Other channel Selections are not possible.

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

CAUTION:

Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

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

Federal Communication Commission (FCC) Radiation Exposure Statement

This EUT is compliance with SAR for general population/uncontrolled exposure limits in ANSI/IEEE C95.1-1999 and had been tested in accordance with the measurement methods and procedures specified in OET Bulletin 65 Supplement C. This equipment should be installed and operated with minimum distance 2.5cm between the radiator & your body.

CE Statement:

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 I: INTRODUCTION FEATURES	4 4
CHAPTER 2: INSTALLATION FOR WINDOWS 2000/XP Installing Software Installing Hardware FOR WINDOWS VISTA Installing Software Installing Hardware INSTALLATION VERIFICATION NETWORK CONNECTION IP Address	5 5 7 9 9 10 8 11
CHAPTER 3: UTILITY CONFIGURATION FOR WINDOWS 2000/XP Station Model Profile Network Link Status Advanced Statistics WMM / QoS WPS Radio On/Off	12 12 13 14 19 22 23 24 26 27 29
Utility Menu List Soft AP Mode Config Access Control MAC Table Event Log Statistics FOR WINDOWS VISTA Station Model Profile Network Link Status Advanced Statistics WMM / QoS WPS Radio On/Off Utility Menu List Soft AP Mode Config Access Control MAC Table Event Log Statistics	31 32 35 36 37 38 39 40 40 40 45 48 49 50 51 52 54 55 56 56 56 56 56 56 56 56 56 56 56 56
CHAPTER 4: UN INSTALL DRIVER and APPLICATION	62

Chapter I

Introduction

Mvix Nubbin (MS-811N) is an IEEE802.11b/g/n mini-size USB adapter that can connect notebook, handheld or desktop PC equipped with USB2.0 interface to a wireless-N network. It brings the freedom of staying connected to the network at blazing-fast Wireless-N speeds while maintaining access to the Internet, e-mail, networked applications, and print services. The "nubbin" is a perfect companion for your notebook -providing access to the internet-enabled world anytime - anywhere.

The MS-811N fully complies with IEEE 802.11n draft 3.0 and IEEE 802.11 b/g standards, delivering reliable, cost-effective, feature rich, wireless connectivity at high throughput from an extended distance. It supports WMM and WMM-PS (IEEE802.11e QoS standard) and has an innovative, built-in, WPS (Wi-Fi Protected Setup) feature which auto-builds a connection between the wireless router (access-point) and.

_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _

Features

- USB2.0 Wireless-N (150Mbps) Adapter
- Mini-footprint, Protrusion: Less than 2cm
- Compliance: IEEE 802. In draft 3.0, IEEE 802. I b/g
- Supports WMM and WMM-PS (IEEE 802.1e QoS Standard)
- Innovative WPS (Wi-Fi Protected Setup) auto-builds connection, synchronizes settings.
- Reliable, cost-effective, wireless connectivity at high throughput

Chapter 2:

Installation

For Windows 2000/XP

Installing Software

Note: Do not insert the Wireless LAN USB Adapter into your computer until the Install Shield Wizard has finished installing the software.

- 1. Exit all Windows programs. Insert the included Installation CD into the computer. The SETUP application will run automatically.
- 2. The License Agreement screen appears as below, please read the contents and select "I accept the terms of the license agreement " then click **Next** to continue.



- 3. Select the check box to choose a Configuration Tool from the listed two choices.
 - Configuration Tool: Choose to use the configuration utility.
 - Microsoft Zero Configuration Tool: Choose to use Windows XP's built-in Zero Configuration Utility (ZCU). Click **Next** to continue.

Intelligent - InstallShield Wi	zard	X
Setup Type Select the setup type that best :	suits your needs.	
	Select Configuration Tool.	
	Configuration Tool	
	Microsoft Zero Configuration Tool	
InstallShield	< Back Next> Cancel	

5. When prompt, click **Install** to begin the installation.



6. When the following screen appears, click **Finish** to complete the software installation.



For Windows 2000/XP

Installing Hardware

Note: Insert the Mvix Nubbin (MS-811N) Wireless LAN USB Adapter when software installation is completed.

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

/	
Verification	1
vermeation	
	/

To verify if the device has been correctly installed in your computer.

```
Go to
Start >
Setting >
Control Panel >
```

```
Hardware > Device Manager.
```

Expand the Network Adapters category. If the 802.11n/b/g Mini Wireless LAN USB2.0 Adapter is listed here, it means that the device is properly installed and enabled.

System >



For Windows Vista

Installing Software

Note: Do not insert the Wireless LAN USB Adapter into your computer until the Install Shield Wizard has finished installing the software.

- 1. Exit all Windows programs. Insert the included Installation CD into the computer. The SETUP application will run automatically.
- 2. The License Agreement screen appears as below, please read the contents and select "I accept the terms of the license agreement " then click **Next** to continue.



3. When prompt, click Install to begin the installation.



Mvix(USA), Inc.

4. When the following screen appears, click Finish to complete the software installation.



For Windows 2000/XP

Installing Hardware

Note: Insert the Mvix Nubbin (MS-811N) Wireless LAN USB Adapter when software installation is completed.

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

Network Connection IP Address

Note: When assigning IP address(es) to computers on the network, remember to have IP address for each computer set on the same subnet mask. If the Broadband Router has been enabled DHCP server function, it won't be necessary to assign static IP address for PC.

- 1. To configure a dynamic IP address (i.e. if DHCP server is enabled on your broadband Router), check the **Obtain an IP address automatically** option.
- 2. To configure a fixed IP address (if DHCP server is not enabled in Broadband Router, or when PC needs to be assigned a static IP address), check the **Use the following IP address** option. Then, enter an IP address into the empty field; for example, enter

192.168.1.110 in the IP address field, **255.255.255.0** for the Subnet Mask, and **192.168.1.1** for the default gateway.

Internet Protocol (TCP/IP) Properties	Internet Protocol (TCP/IP) Properties 🔹 🛛 🔀
General Alternate Configuration	General
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.	You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically	Obtain an IP address automatically
Use the following IP address:	Use the following IP address:
IP address:	IP address: 192.168.1.1
Subnet mask:	Subnet mask: 255 . 255 . 0
Default gateway:	Default gateway: 192 . 168 . 1 . 254
Obtain DNS server address automatically	Obtain DNS server address automatically
O Use the following DNS server addresses:	● Use the following DNS server addresses:
Preferred DNS server:	Preferred DNS server:
Alternate DNS server:	Alternate DNS server:
Advanced	Advanced
OK Cancel	OK Cancel

	Chapter 5.	
Utility Configuration		

Chapter 3.

For Windows 2000/XP

After the Wireless LAN USB Adapter has been successfully installed, users can use the included Configuration Utility to set the preference.

Go to Start > (All) Program > Intelligent Wireless > Intelligent Wireless Utility.



Users can also open the Configuration Utility by double clicking or right clicking the icon in the tray to select **Launch Config Utility**.



Station Mode

IMPORTANT NOTICE: Under screen resolution 800 x 600 pixels, if users click the triangle button at the right down corner of the utility windows to expand the station linking information that will NOT be displayed completely.

Profile: Profile allows users to record their favorite wireless settings for home, office, and other public hot-spot. Users may save multiple profiles. The Profile manager enables users to Add, Edit, Delete, and Activate profiles.

- Click this button to show the information of Status Section.
- Click this button to hide the information of Status Section.

省 In	telligent Wirel	ess Utiltiy							
	Profile	↓ Network	ر Advanced	Statistics	www.	Ø WPS	Radio On/Off	About	
		Pro	file List						
F	ROF1	Cherry_test_	11n_Router		6	Profile Name >	>> PROF1		
						SSID :	> Cherry_test_11n_Ro	uter	
						Network Type :	>> Infrastructure		
						Authentication :	»> Open		
						Encryption :	>> None		
						Use 802.1x :	>> NO		
						Tx Power	>> Auto		
						Channel	>> Auto		
						Power Save Mode :	>> CAM		
						RTS Threshold :	»> 2347		
10000	Add	Edit	Delete	Activate	Fra	agment Threshold :	»> 2346		
									_
_									

Profile Tab	
Profile Name	Use a distinctive name of profile in this column. The default is PROF# (#1, #2, #3)
SSID	The SSID is the unique name shared among all wireless access points in the wireless network.
Network Type	Shows the network type of the device, including Infrastructure and Adhoc.
Authentication	Shows the authentication mode.
Encryption	Shows the encryption type.
Use 802.1x	Whether or not use 802.1x feature.
Tx Power	Transmit power, the amount of power used by a radio transceiver to send the signal out.
Channel	Shows the selected channel that is currently in use.
Power Save Mode	Choose from CAM (Constantly Awake Mode) or PSM (Power Saving Mode.)
RTS Threshold	Shows the RTS Threshold of the device.
Fragment Threshold	Shows the Fragment Threshold of the device.
Add	 System Configuration tab: Profile Name: Users can enter profile name, or use default name defined by system. The default is PROF# (#1, #2, #3). SSID: The SSID is the unique name 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. Users can use pull-down menu to select from available access points. Network Type: There are two types of modes: Infrastructure and Ad-hoc. Under Ad-hoc mode users can also choose the preamble type, the available preamble type includes Auto and Long. In addition to that, the channel field will be available for setup in Ad-hoc mode. Tx Power: Transmit power, the amount of power used by a radio transceiver to send the signal out. Select the TX power percentage from the pull-down list including Auto, 100%, 75%, 50%, 25%, 10% and Lowest. Power Save Mode: Select between CAM (Constantly Awake Mode) or PSM (Power Saving Mode). RTS Threshold: Users can adjust the RTS threshold number by sliding the bar or key in the value directly. (The default value is 2347.) RTS/CTS Threshold is a mechanism implemented to prevent the "Hidden Node" problem. If the "Hidden Node" problem is an issue, users have to specify the packet size. The RTS/CTS mechanism will be activated if the data size

exceeds the values that have been set. This value should remain at its default setting of 2347. Should users encounter inconsistent data flow, only minor modifications of this value are recommended.

Fragment Threshold: Users can adjust the Fragment threshold number by sliding the bar or key in the value directly. (The default value is 2346.) The mechanism of Fragmentation Threshold is used to improve the efficiency when high traffic flows along in the wireless network. If the Wireless LAN USB Adapter often transmits large files in wireless network, users can enter new Fragment Threshold value to split the packet. The value can be set from 256 to 2346.

Authentication and Security tab:

Authentication >>	Open	•	Encryption >>	None	▼ 802.1X
WPA Preshared Key >>					
Wep Key					
G Key#1	Hexadecimal	-			Show Password
Key#2	Hexadecimal	[
Key/3	Hexadecimal	-			
G Key#4	Hexadecimal	- T			

Authentication Type: There are several types of authentication modes including Open, Shared, Leap, WPA, WPA-PSK, WPA2 and WPA2-PSK.

Open: If the access point or wireless router is using "Open" authentication, then the Wireless LAN USB Adapter will need to be set to the same authentication type.

Shared: Shared key is when both the sender and the recipient share a secret key.

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 (only with CCX mode enabled.)

WPA/ WPA-PSK/ WPA2/ WPA2-PSK: WPA or WPA-PSK authentications offer two encryption methods, TKIP and AES. For WPA-PSK, select the type of algorithm TKIP or AES and then enter a WPA Shared Key of 8-64 characters in the WPA Pre-shared Key field.

WPA Pre-shared Key: This is the shared secret key between AP and STA. For WPA-PSK and WPA2-PSK authentication mode, this field must be filled with character longer than 8 and less than 64 lengths.

WEP Key: Only valid when using WEP encryption algorithm. The key must match with the AP's key. There

are four formats to enter the keys.

ASCII (64 bits): 5 ASCII characters (case sensitivity). ASCII (128 bits): 13 ASCII characters (case sensitivity). Hexadecimal (64 bits): 10 Hex characters (0~9, a~f). Hexadecimal (128 bits): 26 Hex characters (0~9, a~f).

Show Password: Check this box to show the passwords that have been entered.

802.1x Setting: When users use radius server to authenticate client certificate for WPA authentication mode (WPA authentication do not support EAP Method-MD5-Challenge).

802.1x tab:

EAP Method:

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, simplifying the implementation and administration thus of a secure wireless LAN. TLS / Smart Card: 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. 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. EAP-FAST: Flexible Authentication via Secure Tunnelling. It was developed Cisco. by Instead certificate. of using а mutual authentication is achieved by means of a PAC (Protected Access Credential) which can be managed dynamically by the authentication server. The PAC can be provisioned (distributed one time) to automatically. the client either manually or Manual provisioning is delivery to the client

via disk or a secured network distribution

provisioning

is

an

Automatic

method.

in-

air. distribution. For tunnel the band. over authentication, only support "Generic Token Card" authentication now. MD5-Challenge: Message Digest Challenge. Challenge is an EAP authentication type that provides base-level EAP support. It provides for only oneway authentication - there is no mutual authentication of wireless client and the network. Shared authentication mode Open and (Only can use this function.)

Tunnel Authentication:

Protocol: Tunnel protocol, List information including EAP-MSCHAP v2, EAP-TLS/ Smart Card, and Generic Token Card.

Tunnel Identity: Identity for tunnel.

Tunnel Password: Password for tunnel.

Session Resumption: Reconnect the signal while broken up, to reduce the packet and improve the transmitting speed. Users can click the box to enable or disable this function.

ID\PASSWORD tab:

ID \ PASSWORD	Client Certification Server Certification
Authentication ID / Pas	ssword
identity >>	Password >> Domain Name >>
Transfer (Deserved)	
Tunnel ID 7 Password	
Tunnel ID >>	Tunnel Password >>

ID/ PASSWORD: Identity and password for server.

Authentication ID / Password: Identity, password and domain name for server. Only "EAP-FAST" EAP method and "LEAP" authentication can key in domain name. Domain name can be keyed in blank space. Tunnel ID / Password: Identity and Password for server.

Client Certification tab:

ID \ PASSWORD CI	ent Certification	Server Certification		
_				_
Use Client certifica	te		_	~
	sued To >>			
	sued By >>			
Exp	ired On >>			
Friend	ly Name >>			

Use Client certificate: Choose to enable server authentication.

OK: Click to save settings and exit this page. Cancel: Click to call off the settings and exit.

Server Certification tab:

EAP Method >> PEAP 🔻	Tunnel Authentication >> EAP-MSCHAP v2	Session Resumption
ID \ PASSWORD Client Ce	tification Server Certification	
Use certificate chain		
	Allow intermidiate certificates	
	Server name as	_
	Server name much match	
	Domain name must end in specified name	

Use certificate chain: Choose use server that issuer of certificates.

Allow intimidate certificates: It must be in the server certificate chain between the server certificate and the server specified in the certificate issuer must be field.

Server name: Enter an authentication sever.

Server name must match: Click to enable or disable this function.

Domain name must end in specified name: Click to enable or disable this function.

OK: Click to save settings and exit this page.

Cancel: Click call off the settings and exit								
Delete	Click to delete an existing profile.							
Edit	Click to edit a profile.							
Activate	Click to make a connection between devices.							

~ -	-	-			-	-	-	-		-		 -	-	-	-	-	-	- 1		 	- 1		- 1		- 1										-	-	-	-	-	-						-	-	-	-		٠,
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The Network page displays the information of surrounding APs from last scan result. The tab lists the information including SSID, Network type, Channel, Wireless mode, Security-Enabled and Signal.

🖌 Intelligent Wirele	ess Utiltiy							
Profile	LLL Network	ر Advanced	Statistics	www.	Ø WPS	Radio On/Off	About	
Sorted by >>	SSID	🖉 Cha	nnel 🥝	Signal		Show dBm		
airlive-wl5470poe Cherry_test_11n_R Rescan	outer Add to Profi	ゆ11 ゆ7 le Cor	9 9 9 9 9 4 9	39%				•

Network Tab

Sorted by	Indicate that AP list are sorted by SSID, Channel or Signal.
Show dBm	Check the box to show the dBm of the AP list.
SSID	Shows the name of BSS network.
Network Type	Network type in use, Infrastructure for BSS, Ad-Hoc for IBSS
Channel	Shows the currently used channel.
Wireless mode	AP support wireless mode. It may support 802.11b, 802.11g or 802.11n wireless mode.
Encryption	Shows the encryption type currently in use. Valid value includes WEP, TKIP, AES, Not Use and WPS.
Signal	Shows the receiving signal strength of specified network.
Rescan	Click to search and refresh the access point list.
Add to Profile	Select an item (SSID) on the list and then click to add it into the
Connect	Select an item (SSID) on the list and then click to make a

Access Point (AP) Information

Double click on the intended AP to see detailed information about that specific Access Point

	General	WPS CCX	K 802.11n	
General	SSID >> MAC Address >> Authentication Type >> Encryption Type >> Channel >> Network Type >> Beacon Interval >>	Cherry_test_11n_Router 00-E0-4C-86-51-01 Unknown None 7 <> 2442 MHz Infrastructure 100	Supported Rates (Mbps) 1, 2, 5.5, 11, 6, 9, 12, 18, 24, 36, 48, 54	
			Close	

General information contain AP's SSID, MAC address, Authentication Type, Encryption Type, Channel, Network Type, Beacon Interval, Signal Strength and Supported Rates.

General WPS	CCX	802.11n	
Authentication Type >>	Unknown	State >>	Configured
Encryption Type >>	None	Version >>	1.0
Config Methods >>	Unknown	AP Setup Locked >>	
Device Password ID >>		UUID-E >>	Unknown
Selected Registrar >>	Unknown	RF Bands >>	Unknown
		Close	

WPS information contains Authentication Type, Encryption Type, Config Methods, Device Password ID, Selected Registrar, State, Version, AP Setup Locked, UUID-E and RF Bands.

WPS Authentication Type: There are four types of authentication modes supported by RaConfig. They are Open, Shared, WPA-PSK, WPA securities, WPA2-PSK and WPA2.

Encryption Type: For Open and Shared authentication mode, the selection of encryption type are None and WEP. For WPA, WPA2, WPA-PSK and WPA2-PSK authentication mode, the encryption type supports both TKIP and AES.

Config Methods: Correspond to the methods the AP supports as an Enrollee for adding external Registrars.

Device Password ID: Indicate the method or identifies the specific password that the selected Registrar intends to use.

Selected Registrar: Indicate if the user has recently activated a

Registrar to add an Enrollee. The values are "TRUE" and "FALSE"

State: The current configuration state on AP. The values are "Unconfigured" and "Configured."

Version: WPS specified version.

AP Setup Locked: Indicate if AP has entered a setup locked state.

UUID-E: The universally unique identifier (UUID) element generated by the Enrollee. There is a value. It is 16 bytes.

RF Bands: Indicate all RF bands available on the AP. A dual-band AP must provide it. The values are "2.4GHz."

	General WPS	CCX	802.11n	
	CCKM >> FALSE			
	Cmic >> FALSE			
	Ckip >> FALSE			
CCX				
		10000	Close	

CCX information contains CCKM, Cmic and Ckip information.

Secondary Channel Offset element		~
Secondary Channel Offset	0	
Extended Capabilities information element		
HT Information Exchange Support	FALSE	
Neighbor Report element		
Mobility Domain	FALSE	
High Throughput	FALSE	
HT Capabilities element		
HT Capability	TRUE	
LDPC Coding Capability	FALSE	
Supported Channel Width Set	1	
CU Danna Cana	2	
	Close	

This tab will show up if the selected access point supports 11n mode. Here shows the connected access point 802.11n related information.

Link Status

Click the triangle button at the right down corner of the windows to expand the link status. The link status page displays the detail information of current connection.

- Click this button to show the information of Status Section.
- Click this button to hide the information of Status Section.

Link Status Ta	b
Status	Shows the current connected AP SSID and MAC address. If there is no connection existing, it will show Disconnected.
Extra Info	Shows the link status and TX power percentage.
Channel	Shows the current channel in use.
Authentication	Authentication mode used within the network, including Unknown, Open, Shared, Leap, WPA-PSK, WPA2-PSK, WPA and WPA2.
Encryption	Shows the encryption type currently in use. Valid value includes WEP, TKIP, AES, and Not Use.
Network Type	Network type in use, Infrastructure for BSS, Ad-Hoc for IBSS network.
IP Address	Shows the IP address information.
Sub Mask	Shows the Subnet Mask information.
Default Gateway	Shows the default gateway information.
Link Quality	Shows the connection quality based on signal strength and TX/RX packet error rate.
Signal Strength I	Shows the receiving signal strength, users can choose to display as percentage or dBm format.
Noise Strength	Shows the noise signal strength in the wireless environment.
Transmit	Shows the current Link Speed and Throughput of the transmit rate.
Receive	Shows the current Link Speed and Throughput of receive rate.
Link Speed	Shows the current transmitting rate and receiving rate.
Throughput	Shows the transmitting and receiving speed of data.

Intelligent Wirele	ss Utiltiy						
Profile	Land Hetwork	Advanced	Statistics	www.	Ø WPS	Radio On/Off	About
Sorted by >>	🙆 SSID	🥝 Cha	annel 🥥	Signal		Show dBm	
airlive-wI5470poe Cherry_test_11n_R	uter	11 10 10 11	9 99 1 49	39%			
Rescan	Add to Profi	ile Cor	nnect				_
Rescan	Add to Profi	ile Cor	nnect				
Rescan Status	Add to Profi	ile Cor _11n_Router <> (nnect 00-E0-4C-86-51-01		Link C	Quality >> 100%	
Rescan Status Extra Info	Add to Profi	lle Cor _11n_Router <> I xPower:100%	00-E0-4C-86-51-01		Link C Signal St Noise S	Quality >> 100% rength 1 >> 100% Strength >> 26%	-
Rescan Status Extra Info Channel Authentication	Add to Profi	ile Cor _11n_Router <> (xPower: 100%] &Hz central chanr	nnect 00-E0-4C-86-51-01 nel : 9		Link C Signal St Noise S	Quality >> 100% rength 1 >> 100% Strength >> 26%	
Rescan Status Extra Info Channel Authentication Encryption	Add to Profi	ile Cor _11n_Router <> (xPower: 100%] MHz; central chann	nnect 00-E0-4C-86-51-01 nel : 9		Link C Signal St Noise S	Quality >> 100% rength 1 >> 100% Strength >> 26%	
Rescan Status Extra Info Channel Authentication Encryption Network Type	Add to Profi	ile Cor _11n_Router <> (xPower: 100%] MHz; central chann re	nnect 00-E0-4C-86-51-01 nel : 9	Transmit	Link C Signal St Noise S	Quality >> 100% rength 1 >> 100% Strength >> 26%	
Rescan Status Extra Info Channel Authentication Encryption Network Type IP Address	Add to Profi	ile Cor _11n_Router <> (xPower: 100%] MHz; central chann re D1	nnect 00-E0-4C-86-51-01 nel : 9	Transmit Link Speed >>	Link C Signal St Noise S 135.0 Mbps	Quality >> 100% rength 1 >> 100% Strength >> 26%	
Rescan Status Extra Info Channel Authentication Encryption Network Type IP Address Sub Mask	Add to Profi Add to Profi Cherry_test, Link is Up [7] 7 <> 2442 M Open NONE Infrastructu 192.168.1.10 255.255.255	ile Cor _11n_Router <> (xPower:100%] MHz; central chann re 01 .0	nnect 00-E0-4C-86-51-01 nel : 9	Transmit — Link Speed >> Throusbout >>	Link C Signal St Noise S 135.0 Mbps	Quality >> 100% rength 1 >> 100% Strength >> 26%	
Rescan Status Extra Info Channel Authentication Encryption Network Type IP Address Sub Mask Default Gateway	Add to Profit >> Cherry_test, >> Link is Up [7]; >> 7 <> 2442 Å >> Open >> NONE >> Infrastructu >> 192.168.1.10 >> 255.255.255; >> 192.168.1.19	lle Cor 	nnect 00-E0-4C-86-51-01 nel : 9	Transmit — Link Speed >> Throughput >>	Link C Signal St Noise S 135.0 Mbps 0.000 Kbps	Quality >> 100% rength 1 >> 100% Strength >> 26%	
Rescan Status Extra Info Channel Authentication Encryption Network Type IP Address Sub Mask Default Gateway	Add to Profit	ile Cor Router <> (xPower: 100%) MHz; central chann ire 01 .0	nnect 00-E0-4C-86-51-01 nel : 9	Transmit — Link Speed >> Throughput >> Receive —	Link C Signal St Noise S 135.0 Mbps 0.000 Kbps	Quality >> 100% rength 1 >> 100% Strength >> 26%	
Rescan Status Extra Info Channel Authentication Encryption Network Type IP Address Sub Mask Default Gateway	Add to Profi >> Cherry_test, >> Link is Up [T] >> 7 <> 2442 M >> Open >> NONE >> Infrastructu >> 192.168.1.19 >> 192.168.1.19	ile Cor Router <> (xPower: 100%) MHz; central chann ire 01 .0	nnect 00-E0-4C-86-51-01 nel : 9	Transmit — Link Speed >> Throughput >> Receive — Link Speed >>	Link C Signal St Noise S 135.0 Mbps • 0.000 Kbps • 81.0 Mbps	Quality >> 100% rength 1 >> 100% Strength >> 26%	

Advanced

This Advanced page provides advanced and detailed settings for the wireless network.

Intelligent Wirele	ess Utiltiy							D
Profile	↓ Network	Advanced	Statistics	www.	Ø WPS	Radio On/Off	About	
Wireless mode >> Enable TX Burs Enable TCP Wir Fast Roaming a Show Authenti Select Yo	2.4G at -70 dBm cation Status Diak jour Country Regio	▼ Pg n Code		Enable CCX	(Cisco Compat n CCKW Radio Measure -Serving Chann 50 ms (0-200	ible eXtensions)		
11.B/G >> Apply	1: CH1-13		×					-

Advanced Tab

Wireless mode	Support for 2.4G (included 802.11b/g/n) wireless mode.
Enable TX Burst	Check to enable this function. This function enables the Wireless LAN USB Adapter to deliver better throughput during a period of time, it only takes effect when connecting with the AP that supports this function.
Enable TCP Window Size	Check to increase the transmission quality. The large TCP window size the better performance.
Fast Roaming at dBm	Check to set the roaming interval, fast to roaming, setup by transmits power. (Default setting is -70dBm.)
Show Authentication Status Dialog	When connected AP with authentication, choose whether show "Authentication Status Dialog" or not. Authentication Status Dialog displays the process about 802.1x authentications.
Enable CCX (Cisco Compatible extensions)	 Check to enable the CCX function. Turn on CCKM. Enable Radio Measurements: Check to enable the Radio measurement function. Non-Serving Measurements limit: Users can set channel measurement every 0~2000 milliseconds. (Default is set to 250 milliseconds.)
Apply	Click to apply above settings.

Statistics

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

🖌 Int	elligent Wirele	ess Utiltiy							×
	Profile	Network	کی Advanced	Statistics	www	Ø WPS	Radio On/Off	About	
<	Transmit	Receive							
	Frames Transmitted Successfully				=	30836			
	Frames Retransmitted Successfully				= 30836		836		
	Frames Fail To Receive ACK After All Retries			=			174		
	RTS Frames Successfully Receive CTS				=		0		
	RTS Frames Fail To Receive CTS				=		0		
Re	eset Counter								
	Sec estimet								-

Transmit

Frames Transmitted Successfully	Shows information of packets successfully sent.
Frames Retransmitted Successfully	Shows information of packets successfully sent with one or more reties.
Frames Fail To Receive ACK After All Retries	Shows information of packets failed transmit after hitting retry limit.
RTS Frames Successfully Receive CTS	Shows information of packets successfully receive CTS after sending RTS.
RTS Frames Fail To Receive CTS	Shows information of packets failed to receive CTS after sending RTS.
Reset Counter	Click this button to reset counters to zero.

Receive Statistics	
Frames Received Successfully	Shows information of packets received successfully.
Frames Received With CRC Error	Shows information of packets received with CRC error.
Frames Dropped Due To Out-of-Resource	Shows information of packets dropped due to resource issue.
Duplicate Frames Received	Shows information of packets received more than twice.
Reset Counter	Click this button to reset counters to zero.

WMM/ QoS

The WMM page shows the Wi-Fi Multi-Media power save function and Direct Link Setup (DLS) that ensure the wireless network linking quality.

🖌 Inte	ligent Wirele	ess Utiltiy							
	Profile	Network	ر Advanced	Statistics	www.	Ø WPS	Radio On/Off	About	
₩₩¥	A Setup Status								
	WMM >> E	nabled	Power Save >	> Disabled		D	irect Link >> Disabled		
	🔼 WW	M Enable							
		WMM - Power Sav	e Enable						
		AC_BK	AC_BE	AC_VI	AC.	_VO			
		Direct Link Setup	Enable						
		MAC Address >>			Timeout Value >	>> 60 SE			
		·		, ,			App		
							Tearl	Jown	
									-

WMM/QoS Tab	
WMM Enable	Check the box to enable Wi-Fi Multi-Media function that is meant to improve audio, video and voice applications transmitted over Wi-Fi.
WMM- Power Save Enable	 Select a power save mode that preferred. AC_BK (Access Category Background) AC_BE (Access Category Best Effort) AC_VI (Access Category Video) AC_VO (Access Category Voice)
Direct Link Setup Enable	Check the box to enable Direct Link Setup (DLS). This function will be enabled under the connection with AP which must support the DLS function. Direct Link Setup allows direct STA-to-STA frame transfer within a BSS (Basic Service Set). This is designed for consumer use, where STA-to-STA transfer is more commonly used.
MAC Address	 The setting of DLS(Direct Link Setup) indicates as follow : Fill in the blanks of Direct Link with MAC Address of target STA, and the STA must conform to two conditions: Connecting with the same AP that supports DLS feature. DLS enabled.
Timeout Value	Timeout Value represents that it disconnect automatically after few seconds. The value is integer that must be between 0~65535. It represents that it always connects if the value is zero. (Default setting of Timeout Value is 60 seconds.)
Tear Down	Select a direct link STA MAC address, then click "Tear Down" button to disconnect the STA.

WPS

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 Wirel	ess Utiltiy							X
Profile	Network ,	Advanced	Statistics	www.	Ø WPS	Radio On/Off	About	t
		WF	95 AP List				Rescan	
							Informati ——Pin Cod	e
		WPS	Profile List			1	6912113 Config Mode	Renew
Cherry_test_11n	_Router					F	inrollee	•
<						>	Detail Connec:	t
PIN	WPS Associate IE			Progress >> 10	0%		Rotate	at
1.50	Auto	PBC - G	iet WPS profile suc	cessfully.			Export Pro	ofile
							Delete	

WPS Tab								
WPS AP List	Display the information of surrounding APs with WPS IE from last scan result. List information included SSID, BSSID, Channel, ID (Device Password ID), Security-Enabled.							
Rescan Issue a rescan command to wireless NIC to update infor surrounding wireless network.								
	Display th informatic Methods, AP Setup	e information about W on included Authenticat Device Password ID, S Locked, UUID-E and R	/PS IE on the selected network. List tion Type, Encryption Type, Config elected Registrar, State, Version, F Bands.					
	Gene	ral WPS CCX	802.11n					
Information		Authentication Type >> WPA-PSK Encryption Type >> TKIP	State >> Configured Version >> 1.0					
		Config Methods >> 0x008A Device Password ID >> 0x0004	AP Setup Locked >> UUID-E >> 2880288018804880000C432860E0					
		Selected Registrar >> TRUE	RF Bands >> 0x01 (2.4GHz) Close					
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							
Config Mode	Select from the pull-down menu to decide the station role-playing as an Enrollee or an external Registrar							

	Click the Detail button to show the information about Security and Key:
	If selected the AP that listed in the WPS Profile List field, users can click the Detail button to see more AP information.
	SSID: Shows the connected AP network name.
	BSSID: The MAC address of the connected AP. Fixed and cannot be changed.
	Authentication Type: The authentication type support Open, WPA-PSK and WPA2-PSK.
Detail	<i>Encryption Type</i> : For Open authentication mode, the selection of encryption type are NONE and WEP. For WPA-PSK and WPA2-PSK authentication mode, the encryption type supports both TKIP and AES.
	Key Length: Only valid when using Open authentication mode and WEP encryption. There are key lengths 5, 10, 13 and 26.
	Key Index: Only valid when using Open authentication mode and WEP encryption. There are 1~4 key index.
	<i>Key Material</i> : The key material can be used to ensure the security of the wireless network. Fill in the appropriate value or phrase in Key Material field.
	Show Password: Check this box to show the passwords that have been entered
Connect	Command to connect to the selected network inside credentials. The active selected credential is as like as the active selected Profile.
Rotate	Command to rotate to connect to the next network inside credentials.
Disconnect	Stop WPS action and disconnect this active link. And then select the last profile at the Profile Page. If there is an empty profile page, the driver will select any non-security AP.
Export Profile	Export all credentials to a Profile File.
Delete	Delete an existing credential. And then select the next credential if exist. If there is an empty credential, the driver will select any non-security AP.
PIN	Registrar: Add the AP's PIN code into the PIN code column, and press the device PIN button. It will connect with the AP in two minutes and get IP address. Enrollee: Input the device's PIN code into the PIN code column of AP. Start AP WPS process and click device PIN button. Then, the

	device will connect to AP in two minutes and get IP address.
PBC	Start to add to AP using PBC (Push Button Configuration) method. Click this button to connect the AP which supported WPS function within two minutes. Meanwhile, the AP should also click the PBC button simultaneously.
Note: After the use connection. If users "Disconnect" to sto	rs click PIN or PBC, please do not rescan within two minutes of the s want to stop this setup within the interval, restart PIN/PBC or click op WPS action.
WPS Associate IE	Send the association request with WPS IE during WPS setup. It is optional for STA.
WPS Probe IE	Send the probe request with WPS IE during WPS setup. It is optional for STA.
Auto	Check this box the device will connect the AP automatically.

Radio On/Off

Click this Radio On/Off button to turn ON or OFF radio function.





This icon shows radio on, click to turn it off.

This icon shows radio off, click to turn it on.

Utility Menu List

To access the utility menu list, please right click the utility icon on the task bar.

Launch Config Utility	
Use Zero Configuration as Configuration Utility	
Switch to AP Mode	
Exit	

- Launch Config Utility: Select to open the utility screen.
- Use Zero Configuration as Configuration Utility: Select to use the Window XP built-in utility (Zero configuration utility).
- Switch to AP Mode: Select to make the Wireless LAN USB Adapter act as a wireless AP.
- Exit: Select to close the utility program.

Soft AP Mode

Config

11	100	No forward Hide SSID Allow BW	ling among w 40 MHz	ireless clients
100 %	100	IV IXBUNSI		
100 %	•			
	300			
			Defent	Data Court

SSID	AP name of user type. Users also can click Use Mac Address button to display it.
Channel	Manually Confnigure the AP using the channel. (The system default is CH 1.)
Wireless Mode	Support for 2.4G (included 802.11b/g/n) wireless mode. (The system default is 2.4G.)
Use Mac Address	Click this button to replace SSID by MAC address.

Authentication mode and encryption algorithm used within the AP. (The system default is no authentication and encryption.)

Security Setting				×
Authentication Type	•	Encryption Type	Not Use	•
WPA Pre-shared-Key				
Group Rekey Interval	60 10 seconds			
∟ Wep Key				_
€ Key#1 Hex	V			
C Key#2 Hex	Y			
C Key#3 Hex	V			
C Key#4 Hex	_			
* WEP 64 Bits Encryption WEP 128 Bits Encryption	: Please Keyin 10 HI : Please Keyin 26 HB	EX characters or 5 A EX characters or 13,	SCII characters * ASCII characters	
		Г	Show Password	' I
ОК		Can	cel	

Security Setting

Authentication Type: There are several types of authentication modes including Open, Shared, WPA-PSK, WPA2-PSK, and WPA-PSK/ WPA2-PSK. (System authentication type default is Open.)

Encryption Type: For Open and Shared authentication mode, the selections of encryption type are Not Use and WEP. For WPA-PSK, WPA2-PSK, and WPA-PSK/ WPA2-PSK authentication mode, the encryption type supports both TKIP and AES. (System authentication type default is Not Use.)

WPA Pre-shared Key: This is the shared secret between AP and STA. For WPA-PSK and WPA2-PSK and WPA-PSK/ WPA2-PSK authentication mode, this field must be filled with character longer than 8

and less than 64 lengths.

Group Re-key Interval: Only valid when using WPA-PSK, WPA2-PSK, and WPA-PSK/ WPA2-PSK authentication mode

Beacon (ms)	The time between two beacons. (The system default is 100 ms.) Manually force the AP transmits power from the pull-down list 100%, 75%, 50%, 25% and lowest. (The system default is 100%)			
TX Power				
Idle time(60- 3600)(s)	It represents that the AP will idle after few seconds. The time must be set between 60~3600 seconds. (Default value of idle			

time is 300 seconds.)

No forwarding among wireless clients	No beacon among wireless client, clients can share information each other. (The system default is no forwarding.)			
Hide SSID	Do not display AP name. (System default is disabled.)			
Allow BW 40MHz	Click to disable this function. (System default is enabled.) This function enables the adapter to deliver better throughput, enable this function the link speed will up to 300Mbps, disable this function the link speed will up to 150Mbps only. This function depends on the capability of device. Currently speed up to 150Mbps is supported (DOES NOT support link speed up to 300Mbps.)			
Tx BURST	This function enables the adapter to deliver better throughput during a period, it only takes effect when connecting with the AP that supports this function. (Default setting is enabled.)			
Default	Use the system default value.			
Apply	Click to apply the above settings.			

Access Control

Intelligent Win	eless Utility
Config Access Con	trol Mac Table Event Log Statistics About
Access Policy	Disable 💌
MAC Address	Access List
	bbA
	Delete
	Remove All
	Apply

Access Control	
Access Policy	User chooses whether AP start the function or not. (System default is Disable.) Disable: Do not use this access control function. Allow All: Only the MAC address listed in the Access List can connect with this soft AP. Reject All: Only the MAC address listed in the Access List can NOT connect with this soft AP.
MAC Address	Manually force the MAC address using the function. Enter the MAC address in the column and click Add button, then the MAC address will be listed in the Access List pool.
Access List	Display all MAC Address that have been set.
Add	Add the MAC address that users would like to set.
Delete	Delete the Mac address that has been set.
Remove All	Remove all Mac address in the Access List.
Apply	Apply the above changes.

MAC Table

MAC Address	AID	Power S	Status	
<				>

MAC Table	
MAC Address	The station MAC address of current connection.
AID	Raise value by current connection.
Power Saving Mode	The station of current connect whether it have to support.
Status	The status of current connection.

Event Log

🎸 Intelligent Wireless Utility	
Config Access Control Mac Table E	vent Log Statistics About
Event Time (yy/mm/dd-hh:mm:ss)	Message
2008 / 06 / 03 - 14 : 19 : 44	Restart Access Point
	Clear

Statistics

🖌 Intelligent Wireless Utility		×
Config Access Control Mac Table Event Log	Statistics About	
Transmit Statistics		
Frames Transmitted Successfully	=	185
Frames Fail To Receive ACK After All Retries	: =	0
RTS Frames Successfully Receive CTS	=	0
RTS Frames Fail To Receive CTS	=	0
Frames Transmitted Successfully After Retry	=	0
Receive Statistics		
Frames Received Successfully	=	0
Frames Received With CRC Error	=	718
Frames Dropped Due To Out-of-Resource	=	0
Duplicate Frames Received	=	0
		RESET COUNTERS

Duplicate Frames Received	The number of duplicate packets received.
Reset Counter	Reset counters to zero.

For Windows Vista

After successful installation of the Mvix Nubbing (MS-811N) Wireless-N LAN USB Adapter, Configuration the Wireless Connection Utility to set preference.

Go to Start > (All) Program > Intelligent Wireless > Intelligent Wireless Utility.



Open the Configuration Utility by double clicking or right clicking the icon in the tray to select

Launch Config Utility.



Station Mode	

Profile

Profile can 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, Edit, Delete, and Activate profiles.

- Click this button to show the information of Status Section.
- Click this button to hide the information of Status Section.

itemgent wire	ciess officity						
P	<u></u>	50		005	0	8	e
Profile	e Network	Advanced	Statistics	WMM	WPS	Radio On/Off	About
	Pro	file List					
PROF1	Cherry_test	11n_Router		5	Profile Name	>> PROF1	
					SSID	>> Cherry_test_11n_Ro	uter
					Network Type	>> Infrastructure	
					Authentication	>> Open	
					Encryption	>> None	
					Use 802.1x	>> NO	
					Tx Power	>> Auto	
					Channel	>> Auto	
				1	Power Save Mode	>> CAM	
					RTS Threshold	>> 2347	
Add	Edit	Delete	Activate	e Fra	agment Threshold	>> 2346	
							- (-

Profile Tab

Profile Name	Users may enter a distinctive name of profile in this column. The default is PROF# (#1, #2, #3)
SSID	The SSID is the unique name shared among all wireless access points in the wireless network.
Network Type	Shows the network type of the device, including Infrastructure and Ad-hoc.
Authentication	Shows the authentication mode.
Encryption	Shows the encryption type.
Use 802.1x	Whether use 802.1x feature or not.
Tx Power	Transmit power, the amount of power used by a radio transceiver to send the signal out.
Channel	Shows the selected channel that is currently in use.
Power Save Mode	Choose from CAM (Constantly Awake Mode) or PSM (Power Saving Mode.)

RTS Threshold	Shows the RTS Threshold of the device
Fragment Threshold	Shows the Fragment Threshold of the device.
	Click to add a profile from the drop-down screen.
	System Configuration tab : <i>Profile Name</i> : Users can enter profile name, or use default name defined by system. The default is PROF# (#1, #2, #3).
	SSID: The SSID is the unique name 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. Users can use pull-down menu to select from available access points.
	<i>Network Type</i> : There are two types, Infrastructure and Ad hoc modes.
Add	 The Infrastructure is intended for the connection between wireless network cards and an access point. With the Wireless LAN USB Adapter, users can connect wireless LAN to a wired global network via an access point. The Ad hoc lets users set a small wireless workgroup easily and quickly. Equipped with the Wireless LAN USB Adapter, users can share files and printers between each PC and laptop.
	<i>Tx Power</i> : Transmit power, the amount of power used by a radio transceiver to send the signal out. Select the Tx power percentage from the pull-down list including Auto, 100%, 75%, 50%, 25%, 10% and Lowest.
	<i>Preamble</i> : This function will show up when Ad-hoc network type be selected. A preamble is a signal used in wireless environment to synchronize the transmitting timing including Synchronization and Start frame delimiter. Select from the pull-down menu to change the Preamble type into Auto or Long.
	 Power Save Mode: CAM (Constantly Awake Mode): When this mode is selected, the power supply will be normally provided even when there is no throughput. (Default power save mode is CAM.) PSM (Power Saving Mode): When this mode is selected, this device will stay in power saving mode even when there is high volume of throughput.

RTS Threshold: Users can adjust the RTS threshold number by sliding the bar or key in the value directly. (The default value is 2347.) RTS/CTS Threshold is a mechanism implemented to prevent the "Hidden Node" problem. If the "Hidden Node" problem is an issue, users have to specify the packet size. The RTS/CTS mechanism will be activated if the data size exceeds the value that have been set. This value should remain at its default setting of 2347. Should users encounter inconsistent data flow, only minor modifications of this value are recommended.

Fragment Threshold: Users can adjust the Fragment threshold number by sliding the bar or key in the value directly. (The default value is 2346.) The mechanism of Fragmentation Threshold is used to improve the efficiency when high traffic flows along in the wireless network. If the Wireless LAN USB Adapter often transmits large files in wireless network, users can enter new Fragment Threshold value to split the packet. The value can be set from 256 to 2346

Authentication and Encryption tab:

Authentication Type: There are six type of authentication modes including Open, Shared, WPA, WPA-PSK, WPA2 and WPA2-PSK.

Open: If the access point or wireless router is using "Open"authentication, then the Wireless LAN USB Adapter will need to be set to the same authentication type. Shared: Shared key is when both the sender and the recipient share a secret key.

WPA/ WPA-PSK/ WPA2/ WPA2-PSK: WPA-PSK offers two encryption methods, TKIP and AES. Select the type of algorithm, TKIP or AES and then enter a WPA Shared Key of 8-63 characters in the WPA Pre-shared Key field. Encryption Type: For Open and Shared authentication mode, the selection of encryption type are None and WEP. For WPA, WPA2, WPA-PSK and WPA2-PSK authentication mode, the encryption type supports both TKIP and AES. WPA Pre-shared Key: This blank is the shared secret key between AP and STA. For WPA-PSK and WPA2-PSK authentication mode, this field must be filled with character longer than 8 and less than 64 lengths.

WEP Key: Only valid when using WEP encryption algorithm. The key must match with the AP's key. There are four formats to enter the keys.

- ASCII (64 bits): 5 ASCII characters (case sensitivity).
- ASCII (128 bits): 13 ASCII characters (case sensitivity).
- Hexadecimal (64 bits): 10 Hex characters (0~9, a~f).

• Hexadecimal (128 bits): 26 Hex characters (0~9, a~f).

Show Password: Check this box to show the passwords that have been entered.

802.1x Setting: When users use radius server to authenticate client certificate for WPA authentication mode.

802.1x tab:

EAP Method:

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.

TLS / Smart Card: 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.

Tunnel Authentication:

- Protocol: Tunnel protocol, List information including
- EAP-MSCHAP v2 and EAP-TLS/ Smart Card.
- Tunnel Identity: Identity for tunnel.
- Tunnel Password: Password for tunnel.
- Session Resumption: Reconnect the signal while broken up, to reduce the packet and improve the transmitting speed. Users can click the box to enable or disable this function

ID / PASSWORD Tab:

ID \ PASSWORD	Client Certification Server Ce	rtification
Authentication ID / Pas	word	
Identity >>	Pastword ++	Domain Hame ++
Tunnel ID / Password		
Tunnel ID >>	Tunnel Password ++	Show Password
		the second s

ID/ PASSWORD: Identity and password for server.

- Authentication ID / Password: Identity, password and domain name for server. Only "EAP-FAST" and "LEAP" authentication can key in domain name. Domain name can be keyed in blank space.
- Tunnel ID / Password: Identity and Password for server.

Show Password: Check this box to show the passwords that have been entered.

Client Certification tab:

Users can select Use a certificate on this computer, a client certificate for server authentication. Or users can select Use my smart card to enable the Client Certification function.

Server Certification tab:

EAP Method >>	PEAP		athentication >>	EAP-MSCHAP V2	•	5ession Resumption
ID \ PASSWO	RD CI	ient Certificat	ion Server	Certification		
Use	certificate ci	nain				
						_
			Server name >>			

Use certificate chain: Choose use server that issuer of certificates.

	Server name: Enter an authentication sever name.
Delete	Click to delete an existing profile.
Edit	Click to edit a profile.
Activate	Click to make a connection between devices.

Network

The Network page displays the information of surrounding APs from last scan result. The tab lists the information including SSID, Network type, Channel, Wireless mode, Security-Enabled and Signal.

🌠 Intelligent Wireless (Utiltiy							X
Profile	Letwork	Advanced	Statistics	WMM	Ø WPS	Radio On/Off	About	
Sorted by >>	SSID	O Cha	nnel 🦉) Signal ist >>		Show dBm		
Cherry_test_11n_R	outer	1 /27	6900	100%				
Abocom-Wireless		11	bg	86%				
airlive-wl5470poe		11	g	50%				
skl		10	g	44%				H
Abocom-Wireless		106	b 9	29%				
PINGOO		11	b 9	24%				
802.11g-AP		60	B9	15%				-
Rescan	Add to Profile							
		- de						•

- 4			T a	
(en)	W (0)	rk.		D

Sorted by	Indicate that AP list are sorted by SSID, Channel or Signal.
Show dBm	Check the box to show the dBm of the AP list.
SSID	Shows the name of BSS network.
Network Type	Network type in use, Infrastructure for BSS, Ad-Hoc for IBSS network.
Channel	Shows the currently used channel.
Wireless mode	AP support wireless mode. It may support 802.11b or 802.11g or 802.11n wireless mode.
Encryption	Shows the encryption type currently in use. Valid value includes WEP, TKIP, AES, and Not Use.
Signal	Shows the receiving signal strength of specified network.
Rescan	Click to refresh the AP list.
Add to Profile	Select an item on the list and then click to add it into the profile list.

Access Point (AP) Information

Double click on the intended AP to see AP's detail information that divides into four parts: General, WPS, CCX and 802.11n

General

SSID >>	Cherry_test_11n_Router	
MAC Address >>	00-E0-4C-86-51-01	Signal Strength >> 100%
Authentication Type >>	Unknown	
Encryption Type >>	None	Supported Rates (Mbps)
Channel >>	7 <> 2442 MHz	1, 2, 33, 11, 0, 7, 12, 10, 24, 00, 40, 54
Network Type >>	Infrastructure	
Beacon Interval >>	100	

General Information contain AP's SSID, MAC address, Authentication Type, Encryption Type, Channel, Network Type, Beacon Interval, Signal Strength and Supported Rates

WPS

WPS information contains Authentication Type, Encryption Type, Config Methods, Device Password ID, Selected Registrar, State, Version, AP Setup Locked, UUID-E and RF Bands.

Authentication Type: There are four types of authentication modes supported by RaConfig. They are Open, Shared, WPA-PSK, WPA securities, WPA2-PSK and WPA2.

Encryption Type: For open and shared authentication mode, the selection of encryption type are None and WEP. For WPA, WPA2, WPA-PSK and WPA2-PSK authentication mode, the encryption type supports both TKIP and AES.

Config Methods: Correspond to the methods the AP supports as an Enrollee for adding external Registrars.

Device Password ID: Indicate the method or identifies the specific password that the selected Registrar intends to use.

Selected Registrar: Indicate if the user has recently activated a Registrar to add an Enrollee. The values are "TRUE" and "FALSE".

State: The current configuration state on AP. The values are "Unconfigured" and "Configured".

Version: WPS specified version.

AP Setup Locked: Indicate if AP has entered a setup locked state.

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UUID-E: The universally unique identifier (UUID) element generated by the Enrollee. There is a value. It is 16 bytes.

RF Bands: Indicate all RF bands available on the AP. A dual-band AP must provide it. The values are "2.4GHz".

ссх

CCX information contains CCKM, Cmic and Ckip information.

802.lln

This tab will show up if the selected access point supports 11n mode. Here shows the connected access point 802.11n related information.

Link Status

Click the triangle button at the right down corner of the windows to expand the link status. The link status page displays the detail information of current connection.

- Click this button to show the information of Status Section.
- Click this button to hide the information of Status Section.

Profile	Network	Advanced	Statistics	WMM	Ø WPS	Radio On/Off	About	
Sorted by >>	SSID	O Cha	annel 🧧) Signal ist >>		Show dBm		
Cherry_test_11n_Ro	outer	107	B 9 🖬 🥴	100%				
Abocom-Wireless		11	Bg	86%				
airlive-wl5470poe		1211	a	50%				
ski		10	ă	44%				
Abocom-Wireless		10	Ba	20%	_			
Plucoo		ib.		2.4%				
PINGOO				24%				1
802.11g-AP Rescan	Add to Profil	e	DA	15%			(
802.11g-AP Rescan	Add to Profil	Ø6	<u>B</u> A	15%				
802.11g-AP Rescan Status	Add to Profil	e	00-E0-4C-86-51-0	15%	Link (Quality >> 100%	_	
802.11g-AP Rescan Status : Extra Info	Add to Profil Add to Profil Cherry_test_ Link is Up [Tx	e 	00-E0-4C-86-51-0	15%	Link (Signal St	Quality >> 100% crength 1 >> 100%	_	
802.11g-AP Rescan Status Extra Info Channel Authentication	Add to Profile Cherry_test_ Link is Up [Tx 7 <> 2442 M >> Open	e 11n_Router <> (Power:100%] Hz; central chann	00-E0-4C-86-51-0 net : 9	15%	Link (Signal St Noise S	Quality >> 100% crength 1 >> 100% Strength >> 26%	_(
802.11g-AP Rescan Status Extra Info Channel Authentication Encryption	Add to Profil Cherry_test_ Link is Up [Tx 7 <> 2442 M >> Open >> NONE	e 11n_Router <> (Power:100%] Hz; central chann	00-E0-4C-86-51-0	15%	Link (Signal St Noise S	Quality >> 100% crength 1 >> 100% Strength >> 26%		
802.11g-AP Rescan Status Extra Info Channet Authentication Encryption Network Type	Add to Profil Cherry_test_ Link is Up [Tx T <> 2442 M Open NONE Infrastructur	e 11n_Router <> (Power:100%] Hz; central chann	200-E0-4C-86-51-0	15%	Link (Signal St Noise !	Quality >> 100% crength 1 >> 100% Strength >> 26%		
802.11g-AP Rescan Status Extra Info Channel Authentication Encryption Network Type IP Address Sib Hack	Add to Profil >> Cherry_test, >> Link is Up [Tx >> 7 <-> 2442 M >> Open >> NONE >> Infrastructur >> 192.168.1.10 >> 255.955.955	e .11n_Router <> (Power:100%] HZ; central chann e 0	00-E0-4C-86-51-0	15% Transmit — Link Speed >>	Link (Signal St Noise 1 > 135.0 Mbps	Quality >> 100% crength 1 >> 100% Strength >> 26% Max		
802.11g-AP Rescan Status Extra Info Channel Authentication Encryption Network Type IP Address Sub Mask Default Gateway	Add to Profil Cherry_test, Link is Up [Tx > 7 <> 2442 M > Open NONE Infrastructur > 192.168.1.10 > 255.255.255. 192.168.1.19	e .11n_Router <> (Power:100%] HZ; central chann e 0 0 9	00-E0-4C-86-51-0	15% Transmit — Link Speed >> Throughput >	Link (Signal St Noise 5 > 135.0 Mbps > 0.000 Kbps	Quality >> 100% crength 1 >> 100% Strength >> 26% Max 11.728		
802.11g-AP Rescan Status Extra Info Channel Authentication Encryption Network Type IP Address Sub Mask Default Gateway	Add to Profil Cherry_test, Link is Up [Tx > 7 <-> 2442 M > Open > NONE Infrastructur > 192.168.1.10 > 255.255.255. > 192.168.1.255.	e .11n_Router <> (Power:100%] HZ; central chann e 0 9	00-E0-4C-86-51-0	15% Transmit — Link Speed >: Throughput > Receive —	Link (Signal St Noise 3 > 135.0 Mbps > 0.000 Kbps	Quality >> 100% crength 1 >> 100% Strength >> 26% Max 11.728 Kbps		
802.11g-AP Rescan Status Extra Info Channel Authentication Encryption Network Type IP Address Sub Mask Default Gateway	Add to Profil Cherry_test, Link is Up [Tx >> Open >> NONE >> Infrastructur >> 192.168.1.10 >> 192.168.1.19 HT	e 11n_Router <> (Power:100%] Hz; central chann e 0 9	00-E0-4C-86-51-0	15% Transmit — Link Speed > Throughput > Receive — Link Speed >	Link (Signal St Noise 3 > 135.0 Mbps > 0.000 Kbps > 135.0 Mbps	Quality >> 100% trength 1 >> 100% Strength >> 26% Max 11.728 Kbps Max		

Link Status Tab

Status	Shows the current connected AP SSID and MAC address. If there is no connection existing, it will show Disconnected.
Extra Info	Shows the link status and Tx power percentage.
Channel	Shows the current channel in use.
Authentication	Authentication mode used within the network, including Unknown, Open, Shared, WPA-PSK, WPA2-PSK, WPA and WPA2.
Encryption	Shows the encryption type currently in use. Valid value includes WEP, TKIP, AES, and Not Use.
Network Type	Network type in use, Infrastructure for BSS, Ad-Hoc for IBSS network.
IP Address	Shows the IP address information.

Sub Mask	Shows the Subnet Mask information.
Default Gateway	Shows the default gateway information.
Link Quality	Shows the connection quality based on signal strength and TX/RX packet error rate.
Signal Strength I	Shows the Receiving signal strength, users can choose to display as percentage or dBm format.
Noise Strength	Shows the noise signal strength in the wireless environment.
Transmit	Shows the current Link Speed and Throughput of the transmit rate.
Receive	Shows the current Link Speed and Throughput of receive rate.
Link Speed	Shows the current transmitting rate and receiving rate.
Throughput	Shows the transmitting and receiving speed of data.

Advanced

This Advanced page provides advanced and detailed settings for the wireless network.

Advanced Tab	
Wireless mode	Here supports 2.4G (included 802.11b/g/n) wireless mode.
Enable TX Burst	Check to enable this function. This function enables the Wireless LAN USB Adapter to deliver better throughput during a period of time, it only takes effect when connecting with the AP that supports this function.
Enable TCP Window Size	Check to increase the transmission quality. The large TCP window size the better performance.
Fast Roaming at	Check to set the roaming interval, fast to roaming, setup by transmits power.
Apply	Click to apply above settings.

Statistics

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

Intelligent Wireless	Utiltiy						
Profile	Network	Advanced	Statistics	WMM	W PS	Radio On/Off	About
Transmit	Receive						
Frames Frames	Transmitted Succes Retransmitted Succ	ssfully cessfully		-		1294 1294	
Frames	Fail To Receive ACK	After All Retries		÷		15	
RTS Fra	mes Successfully Re	ceive CTS		-		0	
RTS Fra	mes Fail To Receive	СТ5		-		0	
ansmit St	atistics T	ab					_
ansmit St ames Tra ccessfully	atistics T nsmitted	ab Sho	ws inform	ation of p	backets s	successfully s	ent.
ansmit St ames Tra ccessfully ames Retr ccessfully	atistics T nsmitted ransmitte	ab Sho ed Sho one	ws inform ws inform or more	ation of p ation of p reties.	backets s backets s	successfully s successfully s	ent. sent wit
ansmit St ames Tra ccessfully ames Ret ccessfully ames Fail CK After /	atistics T nsmitted ransmitte To Recei All Retrie	ab Sho ed Sho one ive Sho s hitt	ws inform ws inform or more ws inform ing retry li	ation of p ation of p reties. ation of p mit.	oackets s oackets s oackets f	successfully s successfully s ailed transm	ent. Sent wit
ansmit St ames Trai ccessfully ames Reti ccessfully ames Fail CK After A TS Frames ceive CTS	atistics T nsmitted ransmitte To Recei All Retrie S Successf	ab Sho ed Sho one ive Sho s hitt fully Sho afte	ws inform ws inform or more ws inform ing retry li ws inform r sending	ation of p ation of p reties. ation of p mit. ation of p RTS fram	oackets s oackets s oackets f oackets s e.	successfully s successfully s ailed transm	ent. Sent wit it after eceive
ansmit St ames Tra ccessfully ames Retr ccessfully ames Fail CK After A TS Frames ceive CTS S Frames ceive CTS	atistics T nsmitted ransmitte To Recei All Retrie S Success S S Fail To	ab Sho ed Sho one ive Sho s hitt fully Sho afte Sho afte	ws inform ws inform or more ws inform ing retry li ws inform r sending ws inform r sending	ation of p ation of p reties. ation of p mit. ation of p RTS fram nation of RTS.	packets s packets s packets s e. packets	successfully s successfully s ailed transmi successfully r failed to rec	ent. Sent wit it after eceive Seive C

Receive Statistics Tab

Frames Received Successfully	Shows information of packets received successfully.
Frames Received With CRC Error	Shows information of packets received with CRC error.
Frames Dropped Due To Out-of-Resource	Shows information of packets dropped due to resource issue.
Duplicate Frames Received	Shows information of packets received more than twice.
Reset Counter	Click this button to reset counters to zero.

WMM/ QoS

The WMM page shows the Wi-Fi Multi-Media power save function and Direct Link Setup that ensure the wireless network linking quality.

P		6	M	0.5	0	°	e
Profile	Network	Advanced	Statistics	WMM	WPS	Radio On/Off	About
VMM Setup <mark>S</mark> tatus —							
WMM >> E	nabled	Power Save >	> Disabled		Di	rect Link >> Disabled	
WAW	A Enable						
	WMM - Power Sav	e Enable					
	AC_BK	AC_BE	AC_VI	AC_VO			
	Direct Link Setup	Enable					
	MAC Address >>			Timeout Value >>	60 set	D	
						Ap	oply
						Tear	Down
						1 Chi	bomi

WMM / QoS Tab	
WMM Enable	Check the box to enable Wi-Fi Multi-Media function that is meant to improve audio, video and voice applications transmitted over Wi-Fi.
WMM- Power Save Enable	 Select a power save mode that preferred. AC_BK (Access Category Background) AC_BE (Access Category Best Effort) AC_VI (Access Category Video) AC_VO (Access Category Voice)
Direct Link Setup Enable	Check the box to enable Direct Link Setup (DLS). This function will be enabled under the connection with AP which must support the DLS function. Direct Link Setup allows direct STA-to-STA frame transfer within a BSS (Basic Service Set). This is designed for consumer use, where STA-to-STA transfer is more commonly used.
MAC Address	 Fill in the blanks of Direct Link with MAC Address of target STA, and the STA must conform to two conditions: Connecting with the same AP that supports DLS feature. DLS enabled.
Timeout Value	Timeout Value represents that it disconnect automatically after few seconds. The value is integer that must be between 0~65535. It represents that it always connects if the value is zero. (Default value of Timeout Value is 60 seconds.)
Apply	Click this button to apply the settings.
Tear Down	Select a direct link STA, then click "Tear Down" button to disconnect the STA.

WPS

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 Wireles:	s Utiltiy						
Profile	Network	Advanced	Statistics	GOS WMM	W PS	Radio On/	Off About
â			PS AP List			1	100 .
ID :	Cherry	_test_11n_ Route	er	00-0C-43-28-60-E0	6	9	Information
							Pin Code
							30650121 Renew
		WP5	Profile List				Config Mode
Cherry_test_11	n_ Router				7		Enrollee 💌
							Detail
•	78-22		m		_	•	Connect
PIN	WPS Associate I	E		Progress >> 100%			Rotate
PBC	WPS Probe IE	PBC - 0	Get WPS profile s	uccessfully.			Disconnect
							Export Profile
							Delete

WPS Tab

WPS AP List	Display the information of surrounding APs with WPS IE from last scan result. List information included SSID, BSSID, Channel, ID (Device Password ID), Security-Enabled.
	Issue a rescan command to wireless NIC to update
Rescan	information on surrounding wireless network.
	Display the information about WPS IE on the selected network. List information included Authentication Type, Encryption Type, Config Methods, Device Password ID, Selected Registrar, State, Version, AP Setup Locked, UUID-E and RF Bands.

	General WPS	LCA	002.1111	
nformation	Authentication Type >>	Unknown	State >>	Configured
	Encryption Type >>	None	Version >>	1.0
	Config Methods >>	0x0086	AP Setup Locked >>	
	Device Password ID >>		UUID-E >>	6304125310192006122800E04C865101
	Selected Registrar >>	Unknown	RF Bands >>	Unknown
		1000	Close	

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.
Config Mode	Select from the pull-down menu to decide the station role- playing as an Enrollee or an external Registrar.

	Click the Detail button to show the information about Security and Key in the credential. Cick the Detail button to see more AP information.
	SSID: Shows the connected AP network name.
	BSSID: The MAC address of the connected AP. Fixed and cannot be changed.
	Authentication Type: The authentication type support Open, WPA-PSK and WPA2-PSK.
Detail	<i>Encryption Type</i> : For Open authentication mode, the selection of encryption type are NONE and WEP. For WPA-PSK and WPA2-PSK authentication mode, the encryption type supports both TKIP and AES.
	Key Length: Only valid when using Open authentication mode and WEP encryption. There are key lengths 5, 10, 13 and 26.
	Key Index: Only valid when using Open authentication mode and WEP encryption. There are 1~4 key index.
	<i>Key Material</i> : The key material can be used to ensure the security of the wireless network. Fill in the appropriate value or phrase in Key Material field.
	Show Password: Check this box to show the passwords that have been entered.
Connect	Command to connect to the selected network inside credentials. The active selected credential is as like as the active selected Profile.
Rotate	Command to rotate to connect to the next network inside credentials.
Disconnect	Stop WPS action and disconnect this active link. And then select the last profile at the Profile Page. If there is an empty profile page, the driver will select any non-security AP.
Export Profile	Export all credentials to Profile.
Delete	Delete an existing credential. And then select the next credential if exist. If there is an empty credential, the driver will select any non-security AP
PIN	Registrar: Add the AP's PIN code into the PIN code column, and press the device PIN button. It will connect with the AP in two minutes and get IP address. Enrollee: Input the device's PIN code into the PIN code column of AP. Start AP WPS process and click device PIN button. Then, the device will connect to AP in two minutes and get IP address.

PBC	Start to add to AP using PBC (Push Button Configuration) method. Click this button to connect the AP which
	supported WPS function within two minutes. Meanwhile, the
Note: After the users the connection. If use or click "Disconnect"	click PIN or PBC, please do not rescan within two minutes of rs want to stop this setup within the interval, restart PIN/PBC to stop WPS action
WPS Associate IE	Send the association request with WPS IE during WPS setup. It is optional for STA.
WPS Probe IE	Send the probe request with WPS IE during WPS setup. It is optional for STA.
Progress Bar	Display rate of progress from Start to Connected status
Status Bar	Display currently WPS Status

Radio On/Off

Click this button to turn on or off radio function.





This icon shows radio on, click to turn it off.

This icon shows radio off, click to turn it on.

2	_			_	_														_	_	_	-			_	_	_			_	_	_			_	_	_	-			_	_	_	_	_		 						_	_	_	_	-				_	_	_	_	•
I.	ι	Jt	il	it	У	1	1	e	n	U	I	L	is	st																																																			ļ
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To access Windows Vista utility menu list, please right click the utility icon on the task bar.



- Launch Config Utility: Select to open the utility screen.
- Switch to AP Mode: Select to make the Wireless LAN USB Adapter act as a wireless AP.
- Exit: Select to close the utility program.

-		-			-	-	-					- 1			 -	-	-	-	-	-	-	-	-	-	-	- 1			 -	-	-	-		 -	-	-	-		 	-	-	-	-	-	-		 -	-	-	
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Config	
SSID	AP name of user type. Users also can click Use Mac Address button to display it.
Channel	Manually force the AP using the channel. (The system default is CH 1.)
Wireless Mode	Here supports 2.4G (included 802.11b/g/n) wireless mode.

Use MAC Address Click this button to replace SSID by MAC address.

WPA Pre-shared-Key	Ē				0	
Group Rekey Interva		60 10 seco	nds			
∟ Wep Key						
€ Key#1	Hex	<u> </u>				
C Key#2	Hex	*				
C Key#3	Hex	<u> </u>				
C Key#4	Hex	<u> </u>				
* WEP 64 Bits I WEP 128 Bits F	incryption: incryption:	Please Keyin 1 Please Keyin 2	0 HEX ch 6 HEX ch	aracters or 5 / aracters or 13	SCII characte ASCII characte	rs × ers

Security Settings

Authentication Type: There are several types of authentication modes including Open, Shared, WPA-PSK, WPA2-PSK, and WPA-PSK/ WPA2-PSK. (System authentication type default is Open.)

Encryption Type: For Open and Shared authentication mode, the selections of encryption type are Not Use and WEP. For WPA-PSK, WPA2-PSK, and WPA-PSK/ WPA2-PSK authentication mode, the encryption type supports both TKIP and AES. (System authentication type default is Not Use.)

WPA Pre-shared Key: This is the shared secret between AP and STA. For WPA-PSK and WPA2-PSK and WPA-PSK/

Apply	Click to apply the above settings.
Default	Use the system default value.
	Spported link speed up to 150Mbps onl. Mvix Nubbin MS-811N, DOES NOT support link speed of 300Mbps.
Allow BW 40MHz	Click to disable this function. (System default is enabled.) This function enables the adapter to deliver better throughput, enable this function the link speed will up to 300Mbps, disable this function the link speed will up to 150Mbps only.
Hide SSID	Do not display AP name. (System default no hide.)
No forwarding among wireless clients	No beacon among wireless client, clients can share information each other. (The system default is no forwarding.)
Idle time(60-3600)(s)	It represents that the AP will idle after few seconds. The time must be set between 60~3600 seconds. (Default value of idle time is 300 seconds.)
TX Power	Manually force the AP transmits power from the pull down list 100%, 75%, 50%, 25% and Lowest. (The system default is 100%.)
Beacon (ms)	The time between two beacons. (The system default is 100 ms.)
	Show Password : Check this box to show the passwords that have been entered.
	 a~f). Hexadecimal (128 bits): 26 Hex characters (0~9, a~f).
	 Hexadecimal (64 bits): 10 Hex characters (0~9,
	 ASCII (64 bits): 5 ASCII characters (case sensitivity). ASCII (128 bits): 13 ASCII characters (case
	WEP Key : Only valid when using WEP encryption algorithm. The key must match with the AP's key. There are four formats to enter the keys.
	mode to renew key. Users can set to change by seconds or packets. (Default is 600 seconds.)
	Group Re-key Interval : Only valid when using WPA-PSK,
	WPA2-PSK authentication mode, this field must be filled with character longer than 8 and less than 64 lengths.

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Access Control

Access Policy		Disable		•
MAC Address				······
MAC Address				
	Add			
	Delete			
	Remove All	1		
		-		
			Арр	bly

Access Control	
Access Policy	 User chooses whether AP start the function or not. (System default is Disable.) Disable: Do not use this access control function. Allow All: Only the MAC address listed in the Access List can connect with this soft AP. Reject All: Only the MAC address listed in the Access List can NOT connect with this soft AP.
MAC Address	Manually force the Mac address using the function. Enter the MAC address in the column and click Add button, then the MAC address will be listed in the Access List pool.
Access List	Display all MAC Address that users have set.
Add	Add the MAC address that users would like to set.
Delete	Delete the MAC address that users have set.
Remove All	Remove all MAC address in the Access List.
Apply	Apply the above changes.

MAC Table

(,
	,		

MAC Table	
MAC Address	The station MAC address of current connection.
AID	Raise value by current connection.
Power Saving Mode	The station of current connect whether it have to support.
Status	The status of current connection.

Event Log

Event Time (yy/mm/dd-hh:mm:ss)	Message	
2008 / 06 / 06 - 11 : 26 : 49	Restart Access Point	
2008 / 06 / 06 - 11 : 26 : 50	Restart Access Point	
2008 / 06 / 06 - 11 : 26 : 50	Restart Access Point	
		lear
		Jeal

Statistics

Transmit Statistics		
Frames Transmitted Successfully	=	331
Frames Fail To Receive ACK After All Retries	=	0
RTS Frames Successfully Receive CTS	=	0
RTS Frames Fail To Receive CTS	=	0
Frames Transmitted Successfully After Retry	=	0
Receive Statistics		
Frames Received Successfully	=	206
Frames Received With CRC Error	=	123
Frames Dropped Due To Out-of-Resource	-	0
Duplicate Frames Received	-	0
		RESET COUNTERS

Transmit Statistics

Frames Transmitted Successfully	Shows information of packets successfully sent.
Frames Fail To Receive ACK After All Retries	Shows information of packets failed transmit after hitting retry limit.
RTS Frames Successfully Receive CTS	Shows information of packets successfully receive CTS after sending RTS.
RTS Frames Fail To Receive CTS	Shows information of packets failed to receive CTS after sending RTS.
Frames Transmitted Successfully After Retry	Shows information of packets successfully sent with one or more reties.

Receive Statistics Frames Received Successfully Shows information of packets received successfully. Emmes Received With CRC

Frames Received With CRC Error	Shows information of packets received with CRC error.
Frames Dropped Due To Out-of-Resource	Shows information of packets dropped due to resource issue.
Duplicate Frames Received	The number of duplicate packets received.
Reset Counter	Reset counters to zero.

Chapter 4:	
Uninstall Driver and Utility / Application	

For Windows 2000/XP

To uninstall the utility and driver, please refer to steps below. (Driver is deleted automatically during un-installation of Utility / Application)

I. Go to Start > All Programs > Intelligent Wireless > Uninstall –Intelligent.



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



3. Then click Finish to complete the uninstallation process.



For Windows Vista

To uninstall the utility and driver, please refer to steps below. (Driver is deleted automatically during un-installation of Utility / Application)

- 🗑 Default Programs 🙆 Internet Explorer Windows Calendar Windows Contacts Cherry Windows Defender Windows Fax and Scan Documents 🎇 Windows Live Messenger Download Windows Mail Pictures 💟 Windows Media Player Space Windows Meeting Space Music Windows Movie Maker 🛅 Windows Photo Gallery Recent Items Þ Windows Update Accessories Computer Extras and Upgrades Network la Games Intelligent Wireless Connect To 1 Intelligent Wireless Utility 🚰 Uninstall - Intelligent Control Panel Maintenance Startup Default Programs Help and Support Back Q C Start Search
- I. Go to Start > Programs > Intelligent Wireless > Uninstall –Intelligent.

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



Caution:

During Un-installation process on Microsoft Vista 64-bit OS, the following popup request to insert Wireless LAN USB Adapter:.



3. Finally, click Finish to complete the uninstallation.



Limited Warranty

The Mvix Nubbin MS-811N Wireless-N USB2.0 Adapter comes with a full I-yr manufacturer's warranty on parts and labor. The Warranty coverage on this player begins the day you buy your product. This warranty covers defects in manufacturing only, and expressly excludes coverage for excessive wear and tear, physical or accidental abuse, loss and theft. Kindly contact your local distributor for the warranty and service procedures. Warranty service is available in all countries where the product is officially distributed. The warranty covers any service or exchange required for a defective unit during the coverage period. The service / exchange opportunity ends one year after the date of purchase. The replacement product is covered only for the warranty period of the original product. When the warranty on the original product expires, the warranty on all replaced products also expires. When it is necessary for you to ship the product to distributor / service center for service / exchange, you will pay the shipping costs for shipment to the distributor. The distributor will pay the shipping costs when returning the product to you.

To receive warranty service, please be sure to have your proof of purchase and a barcode from the product's packaging. Warranty requests cannot be processed without proof of purchase. In no event shall MvixUSA's (or its distributors') liability exceed the price paid for the product from direct, indirect, special, incidental, or consequential damages resulting from the use of the product, its software, or its documentation.

MvixUSA does not offer refunds for any product. As a part of our warranty service, we offer to repair or replace the product. We offer cross shipments, a faster process for processing and receiving your replacement. MvixUSA and its distributor pay for ground shipping only. Please contact MvixUSA's Distributor in your country for more details.

Specifically, your warranty does not cover the following:

- Shipping charges to return defective product.
- Labor charges for installation or setup of the product, adjustment of customer controls on the product, and installation or repair of systems outside of the product.
- Product repair and/or part replacement because of improper installation, connections to improper voltage supply, abuse, neglect, misuse, accident, unauthorized repair or other cause not within our control.
- Damage occurring to product during shipping when improperly packaged or cost associated with packaging.
- Incidental or consequential damages resulting from the product.

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