Wireless 802.11g USB 2.0 Adapter

User's Guide

Version 1.5

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1. Introduction

Thank you for purchasing your Wireless LAN 802.11g Adapter. This User's Guide will assist you with the installation procedure.

The package you have received should contain the following items:

- Wireless LAN 802.11g Adapter
- Quick Installation Guide
- CD containing Wireless network adapter utility & drivers and User's Guide Note: if anything is missing, please contact your vendor

Note: This manual is valid for all Wireless LAN 11g Series products, such as PC Card, USB, mini-USB, PCI adapter, mini-PCI...etc.

2. Wireless LAN Basics

Wireless LAN (Local Area Networks) systems offer a great number of advantages over a traditional, wired system. Wireless LANs (WLANs) are more flexible, easier to setup and manage and often more cost effective than their wired equivalence.

Using radio frequency (RF) technology, WLANs transmit and receive data over the air, minimizing the need for wired connections. Thus, WLANs combine data connectivity with user mobility, and, through simplified configuration, enable movable LANs.

With wireless LANs, users can access shared information without looking for a place to plug in and network managers can set up or augment networks without installing or moving wires. Wireless LANs offer the following productivity, convenience and cost advantages over traditional wired networks:

- Mobility Wireless LAN systems can provide LAN users with access to real-time information anywhere in their organization. This mobility supports productivity and service opportunities not possible with wired networks.
- Installation Speed and Simplicity Installing a wireless LAN system can be fast and easy and can eliminate the need to pull cable through walls and ceilings.
- Installation Flexibility Wireless technology allows the network to go where wires cannot go.
- Reduced Cost-of-Ownership While the initial investment required for wireless LAN hardware might be higher than the cost of wired LAN hardware, overall installation expenses and life-cycle costs will be significantly lower. Long-term cost benefits are greatest in dynamic environments requiring frequent moves, adds, and changes.
- Scalability Wireless LAN systems can be configured in a variety of topologies to meet the needs
 of specific applications and installations. Configurations are easily changed and range from peerto-peer to full infrastructure networks, also allow roaming over a broad area.

3. Installation for Windows platform

The following section will assist you in installing wireless LAN Adapter successfully. You will first install software (Utility) and then insert / attach the Wireless LAN Adapter to your system, and finally set the network properties to accommodate resource sharing and select the type of wireless network that you wish to install. The Wireless LAN card can easily be installed and used, without bothering to connect cables for keeping your computer to use network resources.

3.1. Installation Overview

Here are some steps you will perform in establishing your wireless network connection:

- Install the Access Point at first. AP is needed in case of Infrastructure network mode.
- Install the software using the Install CD.
- Install the Wireless LAN Card (WIRELESS LAN 802.11g Adapter).
- Install the network protocol(s) required to communicate on your network. Most likely you will need the TCP/IP protocol.

3.2. Install Procedure for Windows XP

Note: Do not insert the **WLAN Adapter** until you are asked to do so, failure of which may result in unsuccessful installation of your **WLAN device.**

- Insert the given Installation CD in the CD-ROM, then browse the CD content and find a file which be named **setup.exe**, double click it for beginning the installation.
 Follow the instruction to finish the installation.
- 2. After complete the procedure, insert your WLAN card into PCMCIA/PCI slot or USB connector of your system, and then system will detect new hardware.

Found New Hardware Wi	zard
	Welcome to the Found New Hardware Wizard This wizard helps you install software for: Dynex DX-WUSBG USB Wireless LAN Card Dongle
	If your hardware came with an installation CD or floppy disk, insert it now.
	What do you want the wizard to do? Install the software automatically (Recommended) Install from a list or specific location (Advanced)
general distances	Click Next to continue.
	< Back Next > Cancel

Select "Install the software automatically (Recommended) ", and then click Next to continue.

Once your system detected the driver, Microsoft will show a warning message as below.



Click " Continue Anyway " for next step.

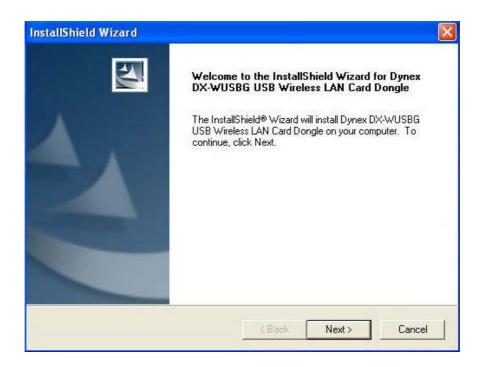
Please wa	it while the wizar	d installs the softw	vare	E.
H	Dynex DX-WUSB(G USB Wireless LAN I	Card Dongle	
	3		D	
		em restore point and b tem needs to be restor		
			Back Next>	Cancel

After copy the file to your system, then the setup is finish.

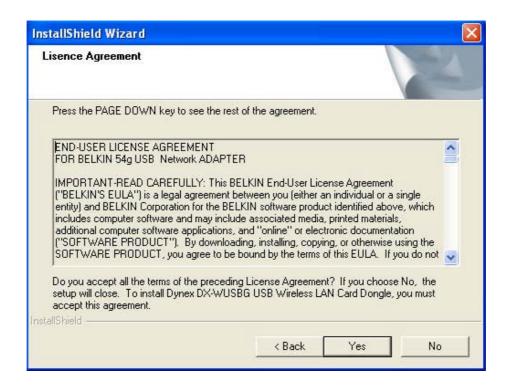
3.3. Install Procedure for Windows 98/ME/2000

Note: Do not insert the **WLAN Adapter** until you are asked to do so, failure of which may result in unsuccessful installation of your WLAN **device**.

- 1. Power on your computer and allow Windows 98/ME/2000 to load fully.
- 2. Be sure that the Wireless LAN 802.11g Adapter is not inserted yet.
- 3. Insert the given Installation CD in the CD-ROM, then browse the CD content and find a file which be named **setup.exe**, double click it for beginning the installation.



At the "Welcome" window, click Next.



Accept the license agreement. Click Yes to accept.

noose Destination Location		
Setup will install Dynex DX-WUSB following folder.	IG USB Wireless LAN Card Dong	le Software in the
To install to this folder, click "Next select another folder and click "No		lick "Browse", then
- Destination Folder		
Destination Folder	Wireless LAN Card Dongle	Browse
	Wireless LAN Card Dongle	Browse



Click **Next** to finish the setup.

5. Insert / attach Wireless LAN 802.11g Adapter to your system

Windows will recognize the WLAN adapter and auto detect the driver, if the system did not find the driver automatically, please install the driver manually.

Found Ne	w Hardware
H H	Network Controller
Please v	vait



Click Yes to finish the installation.

 Click the right button of mouse on My Computer → Properties → Hardware → Device Manager. Check whether it has WLAN adapter in one of the sockets or not. If you find Wireless Network PC
 Card in one of the sockets, it means the card is detected properly.



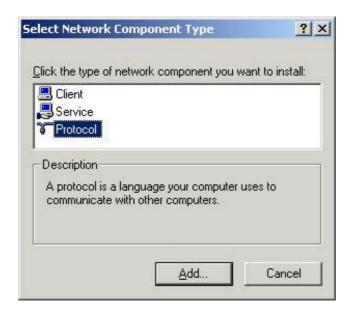
7. Click right button of mouse on the **Network Neighborhood**.

8. Select **Properties** from the pop up menu. For Windows 98 the network's properties box appears.

* For Windows ME and 2000, please select the Local Area Connection's properties to check the following menu.

eral Sharing nnect using Wireless Network Pi mponents checked are	used by this conne	<u>Configu</u>	ie
Wireless Network Pi	used by this conne		ie
mponents checked are	used by this conne		Te
			re
Elization Microsof			-
	I Networks	Manage and	
🛛 📑 File and Printer Sh		Networks	
1 TInternet Protocol (
	0.0349.0349		
Install	Uninstall	Properties	
Description			
Allows your computer to network.	access resources	on a Microsoft	
Sho <u>w</u> icon in taskbar v	when connected		
	(ок I Car	ncel

9. Click on the **General** tab and then click on the **Install** button. Select Network Component Type box appears. Click on the **Protocol** then click the **Add** button.



10. Select Network Protocols box appears. From the list of network protocols list, select **NetBEUI**, then click **OK**.

5elect N	Network Protocol	×
Ť	 Click the Network Protocol that you want to install, then click OK. If you an installation disk for this component, click Have Disk. 	i have
Network	rk <u>P</u> rotocol:	
DLC F NetB	eTalk Protocol Protocol EUI Protocol vork Monitor Driver .ink IPX/SPX/NetBIOS Compatible Transport Protocol	
	<u>H</u> ave Disk	
	OK Canc	el

- 11. The **NetBEUI** protocol is now installed. After clicking on **OK** return back to Network Component Type box.
- 12. Repeat the step 9 and 10 to add IPX/SPX protocol.

13. Click on the TCP/IP option for setting the IP address for your computer. You can select either Obtain an IP address automatically or Use the following IP address setting. If your choice is the second one then enter the IP value, Subnet masking, DNS, Domain/ Workgroup name, and Gateway Address values. After setting these parameters appropriately, click OK to return to Network Component Type and you can select the File and Printer Sharing options as well for sharing your computers resources. Click on OK.

neral	
	automatically if your network supports ed to ask your network administrator for
C Obtain an IP address autor	natically
Use the following IP address	SS:
IP address:	192 . 168 . 2 . 210
S <u>u</u> bnet mask:	255.255.0.0
Default gateway:	192.168.1.254
C Obtain DNS server address	automaticallu
Use the following DNS service of the service of	
Preferred DNS server:	192.168.1.1
Alternate DNS server:	x x x
	Ad <u>v</u> anced

14. Screen message **do want to restart your Computer** will pop up. Select **Yes**. It will shut down your computer and restart.

<u>Important</u>: In order to make sure that the changed values could take effect, please Restart your computer before continue.

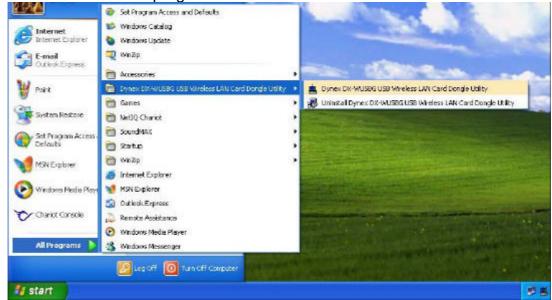
Uninstall Procedure

Step 1:

If you want to uninstall the WLAN adapter, just simply click

Start Menu \rightarrow Program \rightarrow Dynex DX-WUSBG USB Wireless LAN Card Dongled Utility \rightarrow Uninstall,

it shall uninstall all related programs.



Step 2:

Restart your Computer.

4. Configuration Utility

Wireless LAN 802.11g Wireless LAN adapter uses its own management software. All functions controlled by user are provided by this application. Usually this application starts automatically,

or click 📥 icon from Start Menu to start the Utility application.

A new icon - should appear in your Icon tray. If the icon is in red, it means that Wireless LAN 802.11g NIC configuration is invalid or incomplete.

Figure 1 Icon tray with a new icon



User can navigate through "sheets", by clicking tabs. "X" button will minimize window. To provide more information, click "More…" button. Below description explains the use and meanings of the various screen messages.



4.1 Link Information

- Connected To Network

Vireless Information	
Connect To Network :	wireless [00:C0:02:FA:53:12]
Network Type :	Access Point
Channel :	6
Encryption :	Off
Link Speed :	11 Mbits / sec
Signal Strength	Link Quality
DHCP Status :	Enable
	Enable 192.168.2.57
5335373537353944	192.168.2.57
DHCP Status : Current IP :	192.168.2.57 255.255.255.0

This field is used to display the current status of connection. When the state shows "Connected to Network" means normal flow of operation in Infrastructure mode. The PC is connected to access point. Networking is available.

A state of "Scanning" means that the node is searching for available access point and detecting the SSID for an available access point within range.

This field will also display an error message for some reason if the driver fails to initialize.

• Network Type

Infrastructure Mode - The driver will scan all available channels continuously until it finds one or more Access Points that match its SSID. At that point it will try and authenticate and associate with the Access Point.

Peer to Peer Mode - The driver will scan for 5 seconds looking for an existing Ad Hoc network using the same SSID.

Current Channel and Transmit Rate

Shows the channel of the radio and transmit rate being currently used for an active connection.

This value has no meaning when the radio is "Scanning"

Link Quality

The Link Quality bar graph is only active when the node is in Infrastructure Mode. The bar graph displays the quality of the link between the node and Access Point.

Signal Strength

The signal strength bar graph is only active when the node is in infrastructure mode. The bar graph displays normalized signal strength as reported by the radio, averaged over all frames over 100 bytes long that are received from the AP.

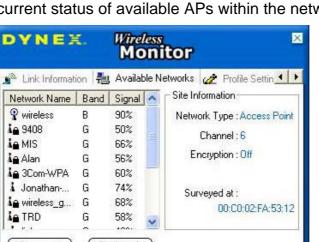
4.2 Availiable Networks

× DYNEX. Wireless Monitor 🔊 Link Information 🍓 Available Networks 🌈 Profile Settin 💶 🕨 Site Information-Network Name | Band | Signal | 🔺 **wireless** В 90% Network Type : Access Point ie 9408 G 50% Channel:6 ie MIS G 66% Encryption : Off 🔓 Alan G 56% La 3Com-WPA G 60% 1 Jonathan-... G 74% Surveyed at : **i**⊜ wireless_g... G 68% 00:C0:02:FA:53:12 In TRD 58% G Y Connect Refresh Ĺ www.dynexproducts.com

The Connections Tab shows current status of available APs within the network.

User may select profile or ESSID from above list, click "Connect" to connect with the AP.

Click "Refresh" to rescan the network, this utility with site survey function, it will detect and list all available AP's within network.



4.3 Profile Setting

Profile Setting allows user to create profiles for different network environments.

Available Ne Profile Name	tworks 🥢 Profile S	Setting 🛛 🧖 About 📃 🚺
AIS:	MIS	Network Type : Access Point Channel : 11 Encryption : On IP Setting : Off
Add	Edit	Delete Connect

Click "**Add**" button to create new profiles. "**Edit**" for editing current exist profile. Click "**Delete**" button if you wish to delete profiles.

Network Type

This field allows you to select from a list of supported Network "Modes". The modes displayed will have two values: "Peer to Peer" and "Access Point".

DYNEX. Wireless	Monitor	\mathbf{X}
Profile S	Setting	
Network Name :	MIS	_
Network Type :	👗 Access Point	•
Transfer Rate :	CAutomatic	•
	🖨 18 Mbps (11g)	~
	data 36 Mbps (11g) data 36 Mbps (11g)	
	48 Mbps(11g)	~
	AB	C
Back N	ext Exit	

Peer to Peer - This is the 802.11g peer-to-peer mode of operation. In 802.11g Ad Hoc, only one wireless "cell" is supported for each different SSID. All communication is done from Client to Client without the use of an Access Point. 802.11g Ad Hoc networking uses the same SSID for

establishing the wireless connection.

- Access Point This mode of operation requires the presence of an 802.11g / 802.11b Access Point. All communication is done via the Access Point, which relays packets to other wireless Clients in the BSS as well as to nodes on a wired network such as Ethernet.
- Transmit Rate The transmission rate at which client of AP transmits the data packets. You may set this to fixed 1Mbps, fixed 2 Mbps, fixed 5.5 Mbps, fixed 11 Mbps or Automatic for 802.11b's AP and fixed 6Mbps, fixed 9Mbps, fixed 12Mbps, fixed 18Mbps, fixed 24Mbps, fixed 36Mbps, fixed 48Mbps, fixed 54Mbps or Automatic for 802.11g's AP.
- **Encryption (WEP)** You may desire an additional measure of security on your wireless network, which can be achieved by using WEP (Wired Equivalent Privacy) encryption and WPA preshared key.

Monitor	×
Setting	
🖳 Disable 📃 💌	
🚍 Disable	
🗐 Enable	
010101010101010 010101010101010 01010101010101010 101010101010101010]
	Getting

When an encrypted frame is received it will only be accepted if it decrypts correctly. This will only happen if the receiver has the WEP Key used by the transmitter.

DYNEX. Wireless	Monitor 🛛 🛛
Profile S	Setting
Input Method : Key :	Passphrase
Key Index :	⊈ >(1) ▼
Back N	ext Exit

This panel allows to entry for 64/128-bit encryption according to WEP function select. To be written to the driver and registry, such as Hexadecimal format, each key must consist of hex digits, which means that only digit 0-9 and letters A-F are valid entries. If entered incorrectly program will not write keys to a driver.

WPA pre-shared key is one advanced security for wireless network. There are 2 types algorithm could be supported – one is TKIP, and the other is AES.

To use WPA Pre-Shared Key, enter a password in the WPA Shared Key field between 8 and 63 characters long.

To enable the used of IP Setting, please select enable.

DYNEX. Wireless	Monitor	×
Profile S	letting	
Authentication Mode :	🔒 Open System	-
Encryption :	🔒 128 bits	
		2
Back Ne	ext Exit	

The main purpose to make used of this function is to properly configure the TCP/IP setting of each wireless connection.

Please define if the current Profile IP setting will be assign by a DHCP Server or just assign by a fixed IP that is determinate by the Network Administrator.

DYNEX. Wireless	Monitor 🛛 🛛
Profile S	letting
DHCP Status :	💿 Enable 💌
IP Address :	😐 Enable
Subnet Mask :	• Disable
Default Gateway :	
DNS Server :	
IP:#.x.x.x Subnet Mask:#.x.x.x DNS:#.x.x.x	
Back Com	plete Exit

When the DHCP Status is Enable, the TCP/IP information will be assigned by a DHCP Server. Or otherwise please fill up with the correspondence data of the IP settings.

4.4 About



"About" tab shows the product version including the detail of Driver, Application and firmware versions. Users must use this version number when reporting their problems to technical support.

5. Troubleshooting

If you encounter any problems during the installation, or to confirm that the WLAN 11Mbps device is installed properly, please read the following troubleshooting section.

In Windows 98:

To check that the **WLAN 802.11g device** is installed properly, please do the following:

 Go to START>SETTINGS>CONTROL PANEL>NETWORK. Choose the Configuration Tab. If you find the WLAN 802.11g Adapter, it means the card is installed properly. If you see the Yellow Question-mark (?) means the resources are conflicting. (Please read further in this section for solutions.)

-or-

- Right click on My Computer and select Properties. Select the Device Manager and click on the Network Adapter. You will find the WLAN 802.11g Adapter if it is installed successfully. If you see the Yellow sign, the resources are conflicting. Click on the PCMCIA Card and then on the PCMCIA Card Service, you can see the status of the PC card. If there is a yellow sign either on the adapter or the PC card, please check the following.
 - 1. Check to see if your computer has a free **IRQ.** If not, make an IRQ free by assigning the same IRQ to some devices, for example COM 1; COM 2 can be assigned the same IRQ values.
 - 2. Check that you have inserted the right card and have installed the proper driver.

In Windows 2000:

- Check the Windows 2000 Diagnostics. See if there is any conflict in the resource allocation or the I/O Address, IRQ allocations. If you find that the IRQ or I/O Addresses are already assigned to some other devices, you must change that value. I/O Address needs 40h byte length.
- 2. Go to the **Control panel.** Double click on the **PCMCIA Card** and you will see **WLAN Adapter.** Double clicking on that will show you the **Card Information**, driver name and the driver **file.** If you do not find the names, there are some problems and the driver is not installed properly. Reinstall the driver.

Note: Check the PnP BIOS setup menu and select **no** in case of the WLAN Adapter installation.

6. Appendix

6.1 Using WinXP Wireless Zero configuration for WPA setup

Step1:

Check and make sure that the Wireless Zero Configuration service is running. Click Start \rightarrow Settings \rightarrow Control Panel \rightarrow Administrative Tools \rightarrow Services

File Action View	Help						
⊨ → 🖬 🛱 [∄ , 👩 → ■ 🗉 ₽►						
Services (Local)	Services (Local)						
	Wireless Zero Configuration	Name /	Description	Status	Rarbup Type	Log On As	
	Wireless Zero Coniguration	Shell Hardware Detection		Started	Automatic	Local System	
	Stop the service	Simple Mail Transfer Protocol (SMTP)	Transports		Automatic	Local System	
	Restart the service	Smart Cerd	Manages a		Manual	Local Service	
	200	Smart Card Helper	Enables su		Manual	Local Service	
	Description:	S50P Discovery Service	Enables dis		Manual	Local Service	
	Provides automatic configuration for the	System Event Notification	Tradis syst		0.000	Local System	
	882.11 edepters	System Event Notification			Automatic Automatic		
		Task Scheduler	Performe e Enables a		Automatic	Local System Local System	
		TCP/IP Not8305 Halper	Enables a		Automatic	Local Service	
		S Telephony					
		So Telet	Provides T Enables a r		Manual Manual	Local System	
		Services	Alows nult		Manual	Local System Local System	
		Strenge Certified Dervices	Provides u		Automatic	Local System	
					Manual	Local Service	
		Subinterruptible Power Supply	Monages a		Manual	Local Service	
		Surveysal Plug and Play Device Host	Provides s	Sec. in	2.000.000 a.v.		
		🍓 Upload Manager	Manages s	Rarted	Automatic	Local System	
		USB2.0G Wireless Service	Wireless L	40.23	Automatic	Local System	
		Wilware Authorization Service	Authorizati		Autoriatic	Local System	
		Whiwere DriCP Service	DHCP servi		Automatic	Local System	
		Suntware NAT Service	Network a	Contraction of the	Automatic	Local System	
		Solume Shedow Copy	Manages a		Manual	Local System	
		Se WebClient	Enables Wi	1000000000	Automatic	Local Service	
		Swindows Audio	Manages a		Automatic	Local System	
		SWindows Image Acquisition (WIA)	Provides in		Manual	Local System	
		Swindows Installer	Instals, res		Manual	Local System	
		Windows Management Instrumenta		Started	Automatic	Local System	
		Windows Management Instrumenta		Sciences St.	Manual	Local System	
		S Windows Time	Maintains d		Automatic	Local System	
		Swireless Zero Configuration	Provides a		Automatic	Local System	
		W/YE Performance Adapter	Provides p		Manual	Local System	
		Section 2010	Creates an		Automatic	Local System	
		World Wide Web Publishing	Provides W	Started	Automatic	Local System	
	Estended / Standard /						

Since WPA security standard has been defined after Windows XP lunch date, then you should also update your current Wireless Zero Configuration utility version to the latest. In order to do so, you must run the patch file which be included the CD or please visit the following website for download it.

http://www.microsoft.com/downloads/details.aspx?displaylang=en&familyid=009D8425-CE2B-47A4-ABEC-274845DC9E91

Once the above steps are complete, please proceed to the following page.

Step2:

Open the Wireless utility

Wireless Network Conr	nection ? 🔀
	rork(s) are available. To access a rom the list, and then click Connect.
i 1590	<u> </u>
ap11g	
This wireless network requir access this network, type th Network key:	res the use of a network key (WEP). To ne key, then click Connect.
Confirm network key:	
Enable IEEE 802.1	x authentication for this network
If you are having difficulty c	onnecting to a network, click Advanced.
Advanced	Connect Cancel

Click Advanced and the following screen will appear. Over the WPA wireless Network, click Configure.

eneral	Wireless Networks	Advanced	
🛛 Use	• <u>W</u> indows to configur	e my wireless r	etwork settings
	able <u>n</u> etworks: onnect to an available	e network, click	Configure.
8	ap11g		Configure
1.000	NASA3F		
Prefe	1590 rred networks: matically connect to a v:	vailable networ	ks in the order listed
Prefe	rred networks: matically connect to a	vailable netwo	
Prefe Autor	rred networks: matically connect to a	vailable netwo	ks in the order listed
Prefe Autor belov	rred networks: matically connect to a		ks in the order listed

Step3:

Verify that the Network Authentication is WPA and the Data encryption is TKIP or AES. (The encryption type should match the WPA setting of your Access Point.)

Authentication	
Network <u>n</u> ame (SSID):	p11g
This network requires a key f	for the following:
Network Authentication:	WPA 💌
Data encryption:	ТКІР
Network key:	
Confirm network key:	
Key inde <u>s</u> (advanced)	
The key is provided for m	e automatically
This is a <u>c</u> omputer-to-compu access points are not used	uter (ad hoc) network; wireless

Step4:

Click Authentication tab to select EAP type. (The EAP type should match the authentication server before access the authenticated network.)

Wireless ne	twork properties	×
Association	Authentication	_
	option to provide authenticated network access for nernet networks.	
Enable	IEEE 802.1x authentication for this network	
EAP <u>t</u> ype:	Smart Card or other Certificate Protected EAP (PEAP) Smart Card or other Certificate Properties	
	icate as <u>c</u> omputer when computer information is availab icate as guest when user or computer information is able	le
	OK Cancel	

After clicking OK, the Wireless workstation will be able to associate with the AP previously get authenticated by an authentication Server.

7. Certification:

FCC Compliant:

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.

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.

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

Dynex declares that DX-WUSBG (FCC ID: MXF-U940722G) is limited in CH1~CH11 for 2.4 GHz by specified firmware controlled in U.S.A.

Maximum average SAR(1g) is 0.474W/kg

IC Compliant

IC statement

Operation is subject to the following two conditions:

1) This device may not cause interference and

2) This device must accept any interference, including interference that may cause undesired operation of the device.