

Wireless-N USB Adapter User's Manual



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Preface

Thank you for purchasing the 1T2R11N Wireless LAN USB Adapter. This manual will assist you with the installation procedure.

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 are more cost effective than their wired equivalents.

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, additions, and modifications.
- 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 peer-to-peer to full infrastructure networks. They also allow roaming over a broad area.

Warning

- Compatibility with IEEE 802.11n future versions is not guaranteed.
- Compatibility with IEEE 802.11n draft devices from other manufacturers is not guaranteed.

Installation Overview

Introduction

Before installing the 1T2R11N Wireless USB Adapter, make sure that there is already an Access Point existing on the wireless network. It is necessary for use with the Infrastructure network mode.

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

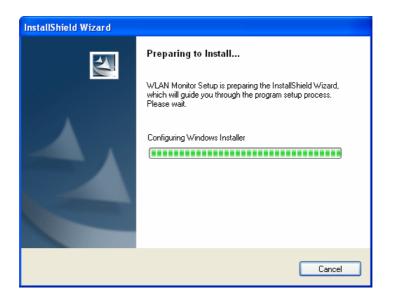
- Install the USB Driver for the 1T2R11N Wireless USB Adapter by using the Install CD.
- Install the Wireless card.
- Configure network protocol(s) required to communicate on your network. Most likely you will need the TCP/IP protocol.

Installation Procedure

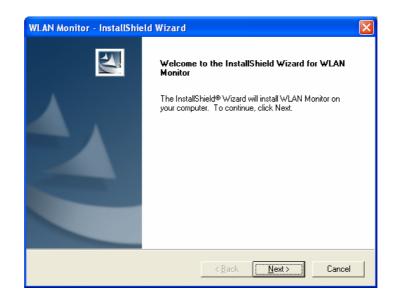
Important !! Do not insert the wireless adapter in your computer before you install the USB driver for the 1T2R 11N USB Adapter

Follow the steps below to install the USB driver.

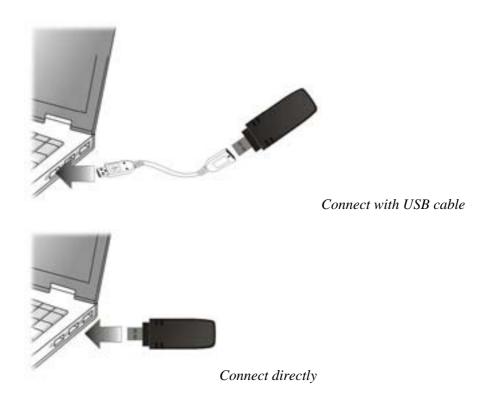
1. Insert the CD into your computer. The following opening **InstallShield Wizard** window will appear:



2. The InstallShield Wizard window will appear as follows. Please click Next.



3. Now, you can insert the 1T2R11N into the USB port of your computer.



4. The default destination folder will be specified in this **InstallShield Wizard** window. Also, you can click **Browse...** to choose another folder for storing the driver. Click **Next**.

WLAN Monitor - InstallShield Wizard	X
Choose Destination Location Select folder where setup will install files.	
Setup will install WLAN Monitor in the following folder.	
To install to this folder, click Next. To install to a different folder, click Browse a another folder.	and select
Destination Folder	
C:\Program Files\Normal\WLAN Monitor\	Browse
nstallShield	Cancel

5. A default Program Folder will be offered by the setup program in this **InstallShield Wizard** window. If you do not want to change it, simply click **Next**.

WLAN Monitor - InstallShield Wizard	×
Select Program Folder Please select a program folder.	
Setup will add program icons to the Program Folder listed below. You may type a new folder name, or select one from the existing folders list. Click Next to continue. <u>P</u> rogram Folder:	
NormalWvLAN Monitor Existing Folders: Accessories	
Startup	
InstallShield	

6. The setup program executes the installation by copying corresponding files to your computer in this **InstallShield Wizard** window.

WLAN Monitor - InstallShield Wizard Setup Status	×
WLAN Monitor is configuring your new software installation.	
C:\Program Files\Normal\WLAN Monitor\Drivers\rt2860.inf	
InstallShield	Cancel

7. Now the system will ask you to restart your computer to complete the whole installation. After choosing the proper setting, please click **Finish**.

WLAN Monitor - InstallShield Wizard				
	InstallShield Wizard Complete The InstallShield Wizard has successfully installed WLAN Monitor. Before you can use the program, you must restart your computer. Yes, I want to restart my computer now: No, I will restart my computer later. Remove any disks from their drives, and then click Finish to complete setup.			
< <u>B</u> ack. Finish Cancel				

8. After restarting your computer, the system will find the hardware (wireless LAN card) automatically. When it is located, a message will be shown on the system tray.

	IEEE802.11b/g/n Wireless USB Adapter AP: default
<) 👽 🕬 🕵 🍸 🕨 🐠 🛲 - 11:13 AM -

9. Now, you can find the 1T2R11N utility icon in the system tray. Double-click it to open the configuration window of 1T2R11N wireless adapter.



Uninstalling the USB Driver

If you want to remove the driver for this wireless card, please do the following:

1. Run Start > Programs > Normal > WLAN Monitor > Utility Uninstallation.

		🛅 D-Link	•	👸 Utility Uninstallation
🦺 start 👘	- 💿 (💼 Normal	🕨 🖬 🗰 WLAN Monitor 🕨	🖌 🛰 WLAN Monitor

2. The following **InstallShield Wizard** window will appear:

InstallShield Wizard
WLAN Monitor Setup is preparing the InstallShield Wizard, which will guide you through the program setup process. Please wait.

3. When the following **Confirm Uninstall** window appears, please click **OK**.

Confirm Uninstall	
Do you want to completely remove the selected application and all of its f	eatures?
Cancel	

4. Now, the system will start to remove the corresponding files in the following **InstallShield Wizard** window.

WLAN Monitor - InstallShield Wizard	\mathbf{X}
Setup Status	
WLAN Monitor is configuring your new software installation.	
InstallShield ————————————————————————————————————	Cancel

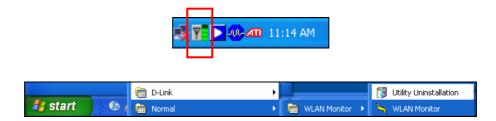
5. When the following InstallShield Wizard window appears, click Finish.

WLAN Monitor - InstallShield Wizard				
	Maintenance Complete InstallShield Wizard has finished performing maintenance operations on WLAN Monitor.			
	< Back [Finish] Cancel			

Configuration

Wireless USB Adapter Utility

After the driver installation is finished, it is the time to configure the wireless utility for accessing the Internet through a wireless connection. Double-click the 1T2R11N utility icon on the system tray. Or open the wireless monitor utility by clicking **Start > Programs > Normal > WLAN Monitor > WLAN Monitor**.



The **WLAN Monitor** window will appear as follows. The software will scan and display available wireless Access Points automatically.

WLAN Monitor						
Configuration Status Option Ab	out					
Available WLANs:						
To connect to available WLAN Refresh Connect						
SSID 🛆	MAC(BSSID)	Signal	Security	СН 🛛 🔼		
L 0():19:5B:EF:03:AD 👘 🔊	42%	Disable	6		
. O	0:01:71:93:22:01 🛛 🔊	38% 🕬	WPA	6		
1/ 0	D:19:5B:EF:48:E8 🍡 🔊	34% 🕬 \	WPA / WPA2	1		
1 000A79A2BC63 0	0:19:5B:EF:03:AD 위 0:01:71:93:22:01 위 0:19:5B:EF:48:E8 위 0:04:79:A2:BC:62 위 0:80:C8:00:27:09 위	34% 🕬 \	WPA / WPA2	4		
👗 11g-2702 0	0:80:C8:00:27:09 👘 🔊	62% 🕬	WPA2_PSK	1		
1 3800DHCP_i15 0-	4:13:9A:B8:A0:13 🍡 🔊	22%	Disable	5 💌		
Profile Group Control Preferred WLANs: Please select a profile group to apply : Automatically connect to available WLAN per below order: New SSID						
Rename	R default	Open Sy	Remo <u>v</u> e	E <u>xport</u>		
Delete				Import		
OK Cancel Apply						

This chapter will introduce each tab in detail. Also, an example of configuration will be provided for your reference.

Configuration

The wireless USB adapter utility will find all the available Access Points and then list them automatically for you to choose from. The following figure is just an example. The actual available list depends on the AP(s) that are found around your computer system.

	Option About						
Available WLANs: To connect to available	WLAN					R <u>e</u> fresh	Connect
SSID 🛆		AC(BSSID)		Signal		Security	СН 🔼 🔨
Å	00:19	:5B:EF:03:AD	. .	42%		Disable	6
λ.	00:01	1:71:93:22:01	ച	38%	⊗∞	WPA	6
1/	00:19	:5B:EF:48:E8	J	34%	<u>@</u> \$\$	WPA / WPA2	1
👗 000A79A2BC63	00:04	:79:A2:BC:62	7	34%	⊗∞	WPA / WPA2	4
👗 11g-2702	00:80):C8:00:27:09		62%	<u>@</u> \$\$	WPA2_PSK	1
👗 3800DHCP_i15	04:13	:9A:B8:A0:13	្តិភា	22%		Disable	5 💌
Profile <u>G</u> roup Control —		Preferred V	/LANs:				
Please select a profile g		Automatical	y connec			AN per below order:	_
	roup to apply : Ne <u>w</u>	Automatical SSID	y connec	Sec	curity	<u>N</u> ew	Move to
		Automatical SSID	y connec	Sec		<u>N</u> ew	Move to
	New	Automatical SSID	y connec	Sec	curity	New Remove Propertie	Move to Export
	Ne <u>w</u> Rena <u>m</u> e	Automatical SSID	y connec	Sec	curity	New Remove Propertie	Move to Export

In the Available WLANs section, you can see:

SSID This displays the SSID of the AP. Å This means the AP is ready for you to connect. \mathbf{Q} This means a successful connection to an AP. X This means the connection has failed. If there are many available APs, scroll bars will appear for the user to scroll and select the preferred AP. Please select the Access Point that you want to connect to for accessing the Internet. MAC (BSSID) This is the MAC address of the current wireless card. Signal The greater the percentage, the better the link quality will be. Security This displays the security method that the AP is using. CH This displays the connection channel that the AP is using. Refresh This button can initiate a new search for available APs on the wireless network whenever the user clicks it. In addition, the whole list will be periodically refreshed automatically.

Connect

This button starts the process of creating a connection between the station (client) and the AP.

In the Profile Group Control section, you can see:

- Profile <u>G</u> roup Control Please select a profile group to apply :		
Ne <u>w</u>		
Rena <u>m</u> e		
Delete		
Select		

New

This allows you to add a new profile to group several APs. Click New to open the following dialog box. Type a new name in the box and click **OK**.

Group Rename 🛛 🔀
Please input the new name for this group
three
<u>O</u> K <u>C</u> ancel

The new group with the name you typed will be shown as the following.

Profile <u>G</u> roup Control Please select a profile group to apply :		
	New	
<caption> three</caption>	Rena <u>m</u> e	
	Delete	
	Select	

Rename	This allows you to modify the selected profile name.
Delete	This allows you to delete the selected profile.
	Wireless Network Configuration
	Please kindly notice that delete the group that it will contain all profile of the group. Are you sure?
	Yes No
Select	This allows you to select one profile for use.

In the Preferred WLANs section, you can see:

SSID	This displays the SSID of the AP.
Security	This displays the security method that the AP is using.
New	This allows you to add a new profile.
Move to	This allows you to move a selected profile to another profile group. After clicking this button, the following dialog will

Move to another group 🔀 Please select a group : Group-1 Group-2 OK Cancel

This allows you to select and remove one of the existing profiles.

This allows you to save the profile record as a file with the file format .AWP. Please type the required password as shown in the following dialog.

appear for you to assign which group that you want to move to.

Profile Password	
Input profile password:	
Confirm again :	
<u>O</u> K	Cancel

This displays properties of the current connected AP.

ImportThis allows you to load a pre-saved profile record into a
currently connected AP. When you want to import such a
profile, you have to type the correct password for that AWP file.

Profile Password	X
Input profile password: ***	
<u>O</u> K	Cancel

Re-Connect

Remove

Export

Properties

This allows you to select one of the existing profiles to apply with a currently connected Access Point.

To add a new WLAN AP, please click New to open the following dialog.

Wireless Network Prope	rties	×
Wireless network <u>n</u> ame (SS	SID):	
Wireless network key —	for the following of	
This network requires a k A <u>u</u> thentication Mode:	Open System	~
Data <u>Encryption</u> :	Disable	*
Key length: 64 bits	(40+24) - 10 Hexadecimal digit	~
Default <u>k</u> ey: Key 1		~
Network <u>K</u> ey :		
Con <u>f</u> irm Key		
	Authentication Confi	g
This is a computer to computer (ad <u>h</u> oc) network; no access points are used.		
IP & Proxy Setting	<u>O</u> K <u>C</u> ancel	

Different authentication mode will guide different data encryption, key length, default key, and so on.

	Please type the name for the AP or wireless router you want to connect to.			
	There are six modes provided for you to choose for data encryption.			
	A <u>u</u> thentication Mode:	Open System	*	
	Data Encryption.	Open System Shared Source Scotter / Shared Kare		
		Open System / Shared Key WPA WPA-PSK		
		WPA2 WPA2_PSK		
Data Encryption	you choose. For Open System/Sh	according to the Authen ared Key and Open Sys abled or assigned with W	tem, the data	
	Data <u>E</u> ncryption: Key <u>l</u> ength: 64 bits (*	Disable Disable WEP	*	
	data encryption can b	VPA-PSK, WPA2 , and V e TKIP or AES . You hav e with the setting configu o.	ve to choose the	
	A <u>u</u> thentication Mode:	WPA	~	
	Data Engenetions	TIME		

Automation Mode.	WIA	*
Data <u>E</u> ncryption:	ТКІР	~
Variation of the second	TKIP	
Key length: 64 bits (AES	

Key Length	Choose the key length for the wireless card. The method you
	choose here must be the same as the method set in the
	connected AP.

Key <u>l</u> ength:	64 bits (40+24) - 10 Hexadecimal digit 💌
Default <u>k</u> ey:	64 bits (40+24) - 10 Hexadecimal digits 128 bits (104+24) - 26 Hexadecimal digits 64 bits (40+24) - 5 ASCII digits 128 bits (104+24) - 13 ASCII digits
Network <u>K</u> ey :	64 bits (40+24) - 5 ASCII digits 128 bits (104+24) - 13 ASCII digits

The number you typed here should be the same as the number set in the connected AP. According to the input method you selected, the characters that you have to set will differ. For **10/26 Hexadecimal digits:** Type 10/26 hexadecimal numbers in this field.

For **5/13 ASCII digits**: Type 5/13 ASCII characters in this field.

Default Key Specify the Default Key which is the same as the setting in the connected AP.

Default <u>k</u> ey:	Key 1	~
Network <u>K</u> ey :	Key 1 Key 2 Key 3	
Con <u>f</u> irm Key	Key 4	

Enable 802.1X This will be available when you choose Open System.

Authentication Config This

This button will be available after you tick the **Enable 802.1X** check box.

You have to type the same parameters as set in the connected AP. Otherwise the connection will not be successful.

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Advance Security Set	ttings 🛛 🗙
- WPA-PSK	
WPA <u>P</u> assphrase	
Check Passp <u>h</u> rs	lise
ЕАР Туре	
<u>Е</u> АР Туре:	EAP-TLS
Certificate	
U <u>s</u> er Certificate	×
■ Validate Server	Certificate
User Information	
<u>U</u> ser Name	Domain Name
Pass <u>w</u> ord	
Confirm Password	
TTLS Identity	
<u>T</u> TLS Identity	
Trust CA List	
	Add
	Remove
	<u>OK</u> <u>C</u> ancel

WPA Passphrase - Type the password for authentication with AP while using WPA PSK mode.

Check Passphrase - Tick this check box to allow the characters of passwords to be visible.

EAP Type - A type for authentication between station and RADIUS server while executing 802.1X mode. For some EAP types, you have to choose a sub-item from the drop-down menu on its right side for using together. Refer to the following sample graphics.

<u>E</u> AP Type:	PEAP 🔽	
e er Certificate	EAP-TLS LEAP EAP-TTLS PEAP	

e CHAP er Certificate MSCHAPV2 EAP-MD5 EAP-Token Card	EAP Type: EAP-TTLS	V PAP V
er Certificate MSCHAPV2 EAP-MD5 Bidate Server Certificate EAP-Token Card	e	
lidate Server Certificate EAP-Token Card	er Certificate	MSCHAPV2
EAP-MSCHAPV2	ulidate Server Certificate	

EAP Type:	PEAP	1	EAP-MD5	*
e			EAP-MD5 EAP-Token Card EAP-MSCHAPV2	

User Certificate – The RADIUS server will assign a user certificate for users. Type the characters in this box.

Validate Server Certificate - Tick this check box to validate the server certificate for RADIUS server.

User Name - Type the certificate account for the RADIUS server.

Domain Name - Type the domain name for the RADIUS server. **Password** – Type the password for connection in WPA-PSK mode.

Confirm Password - Type the password again to confirm it. **TTLS Identify** – Type the TTLS ID for the RADIUS server. **Add** – You can add a trusted CA server by clicking **Add**. The following dialog will appear for you to enter a new name.

Add trust server	
Enter the trust server :	
1	
<u>O</u> K	Cancel

Remove – For a CA server which is not wanted, please select it from the Trusted CA List and then click this button to delete it.

IP & Proxy Setting

This setting allows you to set the IP and proxy. Please click this button to open the following window.

LAN Settings		×
IP Config ProxySetting		_
🗹 Obtain an IP address automatica	llv	
└ IP address setting		
IP address:		
<u>S</u> ubnet mask:	and the second second	
Default gateway:		
Obtain DNS server address auto DNS server address setting Preferred DNS server: <u>A</u> lternate DNS server:	matically	
- WINS address setting		
Primary <u>W</u> INS:	· · ·	
S <u>e</u> condary WINS:	· · ·	
	OK Cancel	

Obtain an IP address automatically – Tick this check box to get an IP address automatically for the wireless card. If you do not tick this check box, you have to type the IP address, subnet mask, and default gateway manually.

IP Address – Type the LAN IP address for the wireless card. **Subnet mask** – Type the subnet mask for the wireless card. **Default gateway** – Type the default gateway for the wireless card.

Obtain DNS server address automatically - Tick this check box to get a DNS server address automatically. If you do not tick this check box, you have to type a Preferred DNS server address and Alternative DNS server manually.

Preferred DNS server – Type the address for the primary DNS server.

Alternate DNS server – Type the address for the secondary DNS server.

Primary WINS - Type the IP address for the primary WINS. **Secondary WINS** - Type the IP address for the secondary WINS.

To set a proxy setting, click the **ProxySetting** tab. The following window appears:

LAN Settings	×
IP Config ProxySetting	
- Automatic Configuration	
Automatically detect settings	
Use automatic configuration script	
Address	
Proxy Server	
Use a proxy server for LAN.	
Bypass proxy server for local addresses.	
HTTP: Port:	
Use the same proxy server for all protocols.	
Secure : Port :	
<u>F</u> TP : Port :	
Gopher: Port:	
Socks: Port:	
Exceptions	
Do not use proxy server for address beginning with :	
(null)	
Use semicolons(;) to separate entrys.	
o se senneouons(,) to separate entrys.	
QK Cancel	

Automatically detect settings – Tick this check box to allow the system to detect proxy settings automatically.

Use automatic configuration script – Tick this check box to use the configuration script automatically according to the IP address typed below.

Address - Type the LAN IP address to get the configuration information for the proxy.

Use a proxy server for LAN – Tick this check box to enable the proxy server to be used for the LAN.

Bypass proxy server for local address – The proxy server will not be used for a local address if you tick this check box. **HTTP/Port** – Type the proxy IP and port number used for HTTP. Use the same proxy server for all protocols - Tick this check box to make all the protocols use the same proxy server. Secure/Port – Type the proxy IP and port number for security. FTP/Port - Type proxy IP and port number for FTP. Gopher/Port – Type the proxy IP and port number for Gopher. Socks/Port - Type the proxy IP and port number for Socks. Do not use proxy server for address beginning with - Type the heading of the IP address that you do not want to use as a proxy server.

Status

This tab provides connection status and hardware information for the device. To view this tab, simply click **Status** on the **WLAN Monitor** window.

WLAN Monitor	
Configuration Status Option About	
Connection State	
Connection Status :	Connected
SSID:	default
BSSID:	00:11:95:C7:F6:7E
Network Type :	Infrastructure
Frequency :	802.11g-2.4GHz
Channel :	6
Data Encryption :	Disable
Speed :	54.0 Mbps
Authentication State :	Connected
Signal Strength :	
Hardware Information	Advance State
MAC Address : 00:18:02:32:8C:8D	Radio Status: ON
Regulatory Domain : FCC	
	OK Cancel Apply

Connection Status	This displays the current status of the connection.		
SSID	This displays the SSID of the AP that your computer is connected to.		
BSSID	This displays the MAC address for the current device.		
Network Type	This displays the mode (Infrastructure or Ad-Hoc) that you set for connecting to the AP.		
Frequency	This displays the frequency that this wireless card is using.		
Channel	This displays the channel being used by this wireless card.		
Data Encryption	This displays the encryption type of the authentication mode being used for this wireless card.		
Speed	This displays the current transferring rate for the link.		
Authentication State	This displays the encryption status for the connection.		
Signal Strength	The longer the signal strength red bar, the better the connection will be. The graph is active only when you choose Access Point as the network type.		
MAC Address	This displays the MAC address for the AP or the wireless router that the station is connected to.		
Regulatory Domain	This displays the Regulatory Domain for different areas. For example, it will display ETSI (CH1~CH13) for nations in Europe, FCC (CH1~CH11) for USA, etc.		
Radio Status	This displays whether the wireless card is ON or OFF.		

Option

This tab displays miscellaneous options. To view this tab, simply click **Option** on the **WLAN Monitor** window.

Vigor N61 802.11n Wireless USB Adapter Utility			×
Configuration Status Option About			
General Setting Auto launch when Windows start up Remember mini status position Auto hide mini status Set mini status always on top Enable IP Setting and Proxy Setting in Profile Group Roaming Ad-hoc	Advance Setting Disable Radio Fragmentation Threshold : RTS Threshold : Frequency : Ad-hoc Channel: Power Save Mode:	2346 2347 802.11b/g/n - 2.4GH • 1 • Disable •	
WLAN type to connect Infrastructure and Ad-hoc network Infrastructure network only Ad-hoc network only Automatically connect to non-preferred networks 	Tx <u>B</u> urst :	Cancel Apply	

Auto launch when Windows start up	Tick this check box to launch the wireless connection when Windows starts up. If you do not tick this check box, you must launch the wireless connection manually.
Remember mini status position	Tick this check box to remember and fix the position of the mini status dialog.
Auto hide mini status	Tick this check box to hide the mini status icon that appears at the right bottom corner of the desktop.
Set mini status always on top	Tick this check box to set the mini status icon to be displayed on the top of the desktop.
Enable IP Setting and Proxy Setting in Profile	Check this box to enable IP setting and Proxy Setting in profile. Refer to IP & Proxy Setting on page 20 for more information.
Group Roaming	You can configure several groups with different APs. The wireless card allows the station to be roamed among different groups of APs. Simply tick this check box to enable group roaming.
Infrastructure and Ad-hoc network	Infrastructure and Ad-hoc network are the common two types for connection through wireless LAN. Click this radio button to select the suitable type for your device.
Infrastructure network only	Click this radio button to use infrastructure network only.
Ad-hoc network only	Click this radio button to use ad-hoc network only.
Automatically connect to non-preferred	Tick this check box to allow your wireless card to connect to any non-preferred networks if the network you want to connect to

networks	has failed.			
Disable Radio	Tick this check box to disable the connection function of this wireless card.			
Fragmentation Threshold	Set the value for the fragmentation threshold. The default value is 2346.			
RTS Threshold	Set the value for the RTS threshold. The default value is 2347.			
Frequency	Choose the wireless frequency for this card.			
	Frequency : 802.11b/g/n - 2.4GH 802.11b-2.4GHz 802.11b/g-2.4GHz 802.11b/g/n - 2.4GHz			
Ad-hoc Channel	Choose one channel. This must match the channel set in the AP.			
	Ad-hoc Channel: 1			
Power Save Mode	To save power, you can choose Max Save or Fast Save . The default setting is Disable .			
	Power Save Mode: Disable Disable Max Save Fast Save Fast Save MaxSave – This can save a lot of power. However, the wireless signal will be significantly weaker. FastSave- This is the standard mode for power saving. Disable – Power will not be saved, yet the wireless signal will			
T D (be better.			
Tx Burst	Such a function can increase the data transmission rate within a short time. Choose Enable to activate the function, otherwise, choose Disable to deactivate the function.			
	Tx Burst : Disable Disable Enable			

About

This tab provides software information such as utility version and driver versions. To view this tab, simply click **About** on the **WLAN Monitor** window.

_AN Monitor	
Configuration Status Option About	
Utility Version	n: V3.0.44.0831
Driver Version	n: 1.00.04.0000
Secure	ed by Odyssey
Copyright 2007, Normal C	orporation. All Rights Reserved.
	OK Cancel Apply

Utility VersionThis displays the version number of the utility.Driver VersionThis displays the driver version of the wireless card.

Miscellaneous

Windows Zero Configuration

Each time you power on your computer, the wireless monitor utility will be activated automatically once you have configured your PC. If you do not want the wireless monitor utility to be opened automatically, but prefer to simply enable the wireless connection, activate Windows Zero Configuration.

First, you have to check if Windows Zero Configuration is enabled or not. Go to **Start > Settings > Control Panel** and double-click **System Administrative Tools > Service**. The **Services** window will appear as follows.

	Help					
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/ices (Local)	Services (Local)					
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	Wireless Zero Configuration	Name A	Description	Status	Startup Type	Log On As
	_	RT73 USB Wireless LAN Card Serv	Wireless LAN Service	Started	Automatic	Local System
	Start the service	Secondary Logon	Enables starting processes	Started	Automatic	Local System
		Security Accounts Manager	Stores security informatio	Started	Automatic	Local System
	Description:	Security Center	Monitors system security s	Started	Automatic	Local System
	Provides automatic configuration for the	Server	Supports file, print, and n	Started	Automatic	Local System
	802.11 adapters	Shell Hardware Detection		Started	Automatic	Local System
		Simple Mail Transfer Protocol (SMTP)	Transports electronic mail	Started	Automatic	Local System
		Smart Card	Manages access to smart		Manual	Local Service
		SSDP Discovery Service	Enables discovery of UPnP	Started	Automatic	Local Service
		System Event Notification	Tracks system events suc	Started	Automatic	Local System
		System Restore Service	Performs system restore f		Automatic	Local System
		Task Scheduler	Enables a user to configur	Started	Automatic	Local System
		TCP/IP NetBIOS Helper	Enables support for NetBI	Started	Automatic	Local Service
		Telephony Telephony	Provides Telephony API (T	Started	Manual	Local System
		Telnet	Enables a remote user to I		Manual	Local System
		Terminal Services	Allows multiple users to be	Started	Manual	Local System
		Themes	Provides user experience t	Started	Automatic	Local System
		Uninterruptible Power Supply	Manages an uninterruptibl		Manual	Local System
		Universal Plug and Play Device Host	Provides support to host U	Started	Automatic	Local Service
		VNC Server Version 4		Started	Automatic	Local System
		Volume Shadow Copy	Manages and implements		Manual	Local System
		WebClient	Enables Windows-based p	Started	Automatic	Local Service
		Windows Audio	Manages audio devices for	Started	Automatic	Local System
		Windows Firewall/Internet Conne	Provides network address	Started	Automatic	Local System
		Windows Image Acquisition (WIA)	Provides image acquisition	Started	Manual	Local System
		Windows Installer	Adds, modifies, and remov		Manual	Local System
		Windows Management Instrumen	Provides a common interfa	Started	Automatic	Local System
		Windows Management Instrumen	Provides systems manage		Manual	Local System
		Windows Time	Maintains date and time sy	Started	Automatic	Local System
		Wireless Zero Configuration	Provides automatic config	2 car cod	Automatic	Local System
		WMI Performance Adapter	Provides performance libra		Manual	Local System
		Workstation	Creates and maintains clie	Started	Automatic	Local System
		Se World Wide Web Dubliching	Drouidos Wob connectivitu	Charled	Automatic	Local System

Locate Wireless Zero Configuration. If you find that the status of WZC is not enabled, please click the wireless monitor utility icon and choose **Enable Windows Zero Configuration** (WZC) to activate it.

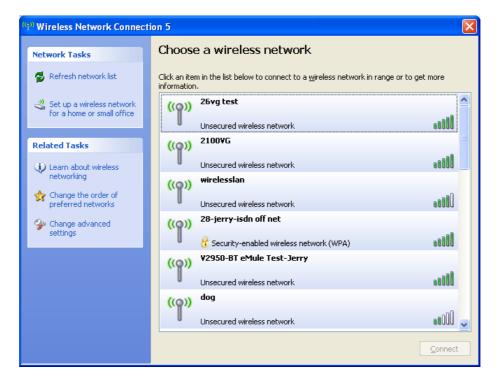


Then follow the steps below to configure WZC.

1. Double-click the wireless connection icon in the system tray.



2. Next, the following window will appear.



3. Click **Change Advanced Settings** and the following window will open. Next, click the **Wireless Networks** tab.

🕹 Wireless Network Connection 5 Properties 👘 🕐 🔀
General Wireless Networks Advanced
✓ Use Windows to configure my wireless network settings
Available networks:
To connect to, disconnect from, or find out more information about wireless networks in range, click the button below.
View Wireless Networks
Preferred networks: Automatically connect to available networks in the order listed below:
Move <u>up</u>
Move <u>d</u> own
<u>A</u> dd <u>Remove</u> Properties Learn about <u>setting up wireless network</u> Ad <u>vanced</u>
OK Cancel

4. Click **Add** to open the next window. In this window, type the SSID of the AP that you want to connect with the wireless card. Here, **Tom** is entered as an example. Choose WPA-PSK as the Network Authentication method and TKIP as the Data encryption method. Then, enter the encryption key characters.

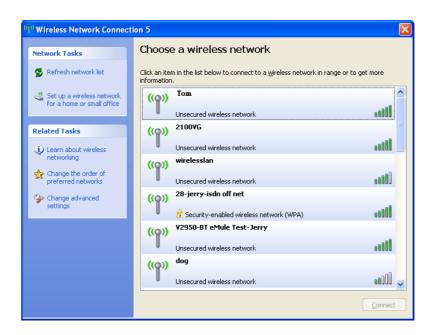
Wireless network propertie	s 🛛 🛛 🔀
Association Authentication Co	onnection
Network <u>n</u> ame (SSID):	
Wireless network key	
This network requires a key fo	or the following:
Network <u>A</u> uthentication:	WPA-PSK 💌
Data encryption:	TKIP
Network <u>k</u> ey:	•••••
Confirm network key:	•••••
Key inde <u>x</u> (advanced): 1	automatically
This is a <u>computer-to-compu</u> access points are not used	ter (ad hoc) network; wireless
	OK Cancel

The type for Network Authentication, Data encryption, and the keys must be the same values as configured in the AP that you want to connect to.

5. Click the **Authentication** tab. Choose the EAP type which is the same as configured in the AP.

Wireless network properties
Association Authentication Connection
Select this option to provide authenticated network access for wireless Ethernet networks.
EAP type: Smart Card or other Certificate Protected EAP (PEAP) Smart Card or other Certificate Properties
 Authenticate as computer when computer information is available Authenticate as guest when user or computer information is unavailable
OK Cancel

- 6. After clicking **OK**, the wireless station can be associated with the AP.
- 7. Open the **Wireless Network Connection** window. Please choose "Tom" (as an example) and then click **Connect**.



8. The wireless connection process will begin. Please wait for it to complete.

Wireless Network Connection
•••
Please wait while Windows connects to the 'Tom ' network.
Detecting network type
Cancel

9. The wireless connection has now been established and you are ready to use your WLAN.