

# 802.11b/g /n USB Dongle

# User's Manual

K-500MWUN

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# 1. Introduction

Congratulations on your purchase of the Kozumi's K-500MWUN Wireless N USB Adapter. Its high bandwidth combined with extended wireless coverage delivers fast and reliable connection for all

of your networking applications when used with other Wireless N products.

A full range of security features such as WEP, WPA-PSK, and WPA2-PSK provide the highest level of wireless network security. The bundled Wireless Utility allows you to set up the adapter with an easy-to-use user interface. Best of all the Wireless N USB Adapter works with 802.11g and 802.11b network devices ensuring compatibility with your existing wireless products.

### 1.1 Package Contents

Before you begin the installation, please check the items of your package. The package should include the following items:

- Wireless N USB Adapter
- Installation CD (Driver/Utility/Manual)

### 1.2 Features

- Industry's highest wireless data rate with IEEE 802.11n draft specification 2.0
- 64-bit/128-bit WEP encryption, Pre-shared Key (PSK), and Wi-Fi Protected Access (WPA2 and WPA) support provide full protection for your wireless connection
- Higher data rate increases the reliability and stability of wireless connections
- Great for environments with higher wireless data traffic requirements
- Fully backward-compatible with 802.11b/g devices
- Works best with other Wireless N products

# 2. Installation

This section provides instructions on how to install the **Wireless N USB Adapter**. The driver is installed along with the utility.

**Step 1** Insert the USB adapter into an available USB port and turn on your computer.

**Step 2** After turning on the computer, Windows will launch the **Found New Hardware Wizard**. The Found New Hardware Wizard appears differently depending on your operating system. Click **Cancel** to quit the wizard and insert the Installation CD into your CD drive.

Found New Hardware Wi	zard
	Welcome to the Found New Hardware Wizard Windows will search for current and updated software by looking on your computer, on the hardware installation CD, or on the Windows Update Web site (with your permission). Read our privacy policy
	Can Windows connect to Windows Update to search for software? O Yes, this time only O Yes, now and every time I connect a device O No, not this time
	Click Next to continue.



**Step 3** Open Windows explorer and browse to the CD and open **Driver**\*RTL8188SU*.exe file.

**Note:** Otherwise, go to **Start**, **Run**, and type **D:\Driver\RTL8188SU.exe** (where **D** is the letter of your CD drive) and click **OK**.

*Windows Vista users:* At this point, you may get a warning message like the one below. Make sure that you click **Allow** to continue with the installation.

User Account Control
An unidentified program wants access to your computer
User Account Control stops unauthorized changes to your computer. The source and purpose of this program are unknown. Don't run the program unless you have used it before or know where it's from.
Unidentified Publisher
Cancel I don't know where this program is from or what it's for.
Allow I trust this program because I've used it before or I know where it's from.
☑ Details

Step 4 Select language and press Next at the welcome screen.

REA	LTEK 11n USB Wireless LAN Software - InstallShield Wizard	
Cł	hoose Setup Language Select the language for the installation from the choices below.	22
	Basque Bulgarian Catalan Chinese (Simplified) Chinese (Traditional) Croatian Czech Danish Dutch English Finnish French (Canadian) French (Canadian) French (Standard) German Greek	
Insta	< <u>B</u> ack <u>N</u> ext >	Cancel

**Step 5** Click **Next** to continue.



Step 6 Click Install to begin install.





**Step 6** Click **Continue Anyway** at the Windows Logo Screen. (For Windows 2000, click **Yes** at the Digital Signature Not Found prompt).

Software	e Installation
1	The software you are installing has not passed Windows Logo testing to verify its compatibility with Windows XP. ( <u>Tell me why</u> <u>this testing is important.</u> ) Continuing your installation of this software may impair
	or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the software vendor for software that has passed Windows Logo testing.
	Continue Anyway STOP Installation

For Windows Vista, click the **Install this driver software anyway** button when the security warning appears.



#### Step 7 Click Finish.



# 3. Configuring the Adapter

This section describes how to connect your wireless adapter to a wireless network.

#### Note to Windows XP Users:

You must disable the Wireless Zero Configuration Utility in order to use the bundled Wireless Utility. Please follow the steps below to disable XP's wireless utility. Windows Vista users can skip the following instructions and go to **Step 1** 

Double-click on the **Wireless Network Connection Icon** in the system tray and then click on **Properties** or **Advanced**.



When the new wireless network connection properties window appears, go to the **Wireless Networks** tab, uncheck the **"Use Windows to configure my wireless network settings"** check box and click **OK**.

	ss Neti	ork Con	nection	12 Proj	perties
neral	Wireless	Networks	Advance	:d	
Use \	Vindows	to configu	re my wirele	ess netwo	rk settings
Availat	ole netwo	orks: ——			
To cor	nect to a	an available	e network,	click Con	figure.
i w	ireless			^	Configure
	J8AP efault			-	Refresh
1 1 0				-	
xu					
Preferr	ed netwo	arks:	2.1.1		
Preferr Autom below:	ed netwo stically c	orks: onnect to a	available ne	etworks in	the order listed
Preferr Autom below:	ed netwo	onnect to a	available ne	etworks in	the order listed
Preferr Autom below:	ed netwo	<mark>πks:</mark> onnect to a	available ne	etworks in	the order listed Move up Move down
Prefem Autom below:	ed netwo atically c d	orks: onnect to a	available ne	etworks in Propertie	the order listed Move up Move down

**Step 1** To open the utility, double click on the Wireless Monitor icon in the system tray at the bottom right-hand corner of your screen.



**Step 2** Go to the **Available Network** tab, select the **SSID** (Network Name) of the wireless network you wish to connect to, and double click **Add to Profile**.

🖧 REALTEK 11n USB Wi	ireless LAN Utility	
Refresh( <u>R</u> ) Mode( <u>M</u> ) Abou	t(A)	
🖃 💡 MyComputer	General Profi <mark>e Available Network S</mark> atus Statistics Wi-Fi Protect Setup	
Realtek R1L818	Available Network(s)	
	SSID Channel Encryption Network Authentication Sign	nal 1
	1 WEP Unknown 58	⁰⁄₀ Ir
	Pdefault_jeff 7 None Unknown 70	.96 Ir
	11 WEP UNKNOWN 24	∽₀ Ir
		>
	Refresh Add to Profile	
	Note	
	Double click on item to join/create profile.	
<		
Show Tray Icon	Disable Adapter	lose
🔲 Radio Off	🗌 Windows Zero Config	

If the network you are attempting to connect to is configured for encryption, you will see an orange lock icon next to the network.

REALTEK 11n USB Wire	less LAN Utility				
${\sf Refresh}({\sf R})  {\sf Mode}({\sf M})  {\sf View}({\sf V})$	About( <u>A</u> )				
🖃 😼 MyComputer	General Profile Available Ne	twork Status	Statistics V	Vi-Fi Protect Setup	
Realtek RTL81885L	Available Network(s)				
	SSID	Channel	Encryption	Network Authentication	Sigr 📥
	<b>1</b> <sub>0</sub>	2	None	Unknown	50
	1 <sup>20</sup> mecimex	З	WEP	Unknown	48
	<b>I</b> <sup>39</sup> obie	3	WEP	Unknown	48
	🕄 sam123456	3	None	Unknown	72
	I.0	6	None	Unknown	28
	1F_Flytech	6	WEP	Unknown	28
	TP-LINK_D5FBF0	6	WEP	Unknown	48
	🕻 🖤 default	6	None	Unknown	46
	t <sup>iii</sup> huanchensmc	6	WEP	Unknown	28
	1 <sup>0)</sup> carot	8	TKIP	WPA Pre-Shared Key	48
	🕻 🖓 lanready	9	TKIP	WPA Pre-Shared Key	62
	<b>1</b> <sup>3)</sup>	11	WEP	Unknown	44
	1 <sup>20</sup> AvantCom	11	WEP	Unknown	28 👝
		4.4	14700	Lielassi us	>
	Refres	sh		Add to Profile	
_	Note Double click on item	to join/creat	e profile.		
< >					
✓ Show Tray Icon Radio Off		Disable Adap	ter	C	Close
Ready					NUM

When you click on it and click connect, a box will pop up requesting the wireless encryption key for the router. Enter the encryption key into the box and click **OK**.

Wireless Network Properties:	
Profile Name:	802.1x configure
Network Name(SSID):	EAP TYPE :
	GTC
- This is a computer-to-computer(ad hoc) petwork: wireless	Tunnel : Privision Mode :
access points are not used.	
Channel: 1 (2412MHz) 👻	Use saved user credential
	Username :
Wireless network security	
I his network requires a key for the following:	Identity :
	Domain :
ASCII PASSPHRASE	Password :
Key index (advanced): 1	Certificate :
Network key:	
Confirm actional Lang	PAC : Auto Select PAC
	]
OK Cancel	

**Step 3** You should now be connected. You should see "Status" in the top, middle , and SSID, signal Strength, Link Quality.

REAL TEK 11n USB Wire	less LAN Utility	
Refresh( <u>R)</u> Mode( <u>M</u> ) View( <u>V</u> )	About( <u>A</u> )	
MyComputer Realtek RTL81885L	General Profile Available Network Status Statistics Wi-Fi Protect Setup	
	Status: Associated	
	Speed: Tx:48 Mbps Rx:48 Mbps	
	Type: Infrastructure	
	Encryption: None	
	SSID: sam123456	
	Signal Strength: 72%	
	Link Quality:	
	100%	
	Network Address:	
	MAC Address: 00:E0:4C:71:00:47	
	IP Address: 192.168.3.103	
	Subnet Mask: 255,255,255,0	
	Gateway: 192.168.3.1	
	ReNew IP	
Show Tray Icon Radio Off	Disable Adapter	Close
Ready		NUM

**Troubleshooting:** If you are experiencing problems with the connection (unable to connect, low signal strength, slow connection speed, not working, unstable wireless connection) you will want to tune your router's signal by changing channels on the router.

You do not need to change the channel on the card, it will automatically pick up the new channel after you reboot. The only channel that you need to change is the router's channel.

Your router has 11 different channels to choose from. Start with channel 1 and work your way up. Each time you change the channel on the router, make sure that you restart the wireless computer before trying to connect again. Keep going through the channels until you find one that gives you a stable connection.

For instructions on changing channels, refer to the documentation that came with your router.

# 4. Wireless Utility

This section describes the various functions of the Wireless Monitor that you can configure, including the settings of wireless encryption.

### 4.1 General

The **General** box, you with the status of the current connection, including status, speed, type, encryption, network name (SSID), signal, link quality, and Network Address (MAC Address, IP Address, Subnet Mask, Gateway).

REAL TEK 11n USB Wire	less LAN Utility	
Refresh( <u>R)</u> Mode( <u>M)</u> View( <u>V</u> )	About( <u>A</u> )	
MyComputer Realtek RTL81885L	General Profile Available Network Status Statistics Wi-Fi Protect Setup	
	Status: Associated	
	Speed: Tx:48 Mbps Rx:48 Mbps	
	Type: Infrastructure	
	Encryption: None	
	SSID: sam123456	
	Signal Strength:	
	Link Quality:	
	100%	
	Network Address:	
	MAC Address: 00:E0:4C:71:00:47	
	IP Address: 192.168.3.103	
	Subnet Mask: 255,255,255,0	
	Gateway: 192.168.3.1	
	ReNew IP	
Show Tray Icon	Disable Adapter	Close
Ready		NUM

## 4.2 Profile Settings

This section provides instructions on using the **Profile** section of the wireless monitor.

REALTEK 11n USB Wire	less LAN Utility 📃 🗖 🔀
Refresh( <u>R)</u> Mode( <u>M</u> ) View(⊻)	About( <u>A</u> )
MyComputer Realtek RTL8188SL	General Profile Available Network Status Statistics Wi-Fi Protect Setup Available Profile(s)
	Profile Name SSID Add
	Remove
	Edit
	Duplicate
	Set Default
< >	
Show Tray Icon	Disable Adapter
Ready	NUM

The **Available Profile(s)** box lists the different profiles you've created for the different networks that you use. Profiles are automatically created and added to this list when you connect to new networks. You can also manually add profiles.

To modify an existing profile, select that profile from the **Available Profile(s)** box and click on Edit.

To create a new profile, click on Add.

The **Profile** box will appear allowing you to specify the settings for your new profile or change settings for your existing profile.

Wireless Network Properties:			Þ
Profile Name: anready-wireless			
Network Name(SSID): lanready-wireless			
This is a computer-to-computer(ad hoc) ne access points are not used.	twork; wireless	802.1× configure EAP TYPE :	
Channel: 9 (2452MHz) 🗸		GTC	~
Wireless network security		Tunnel :	
This network requires a key for the following	.:		~
Network Authentication:	PA-PSK 🔽	Username :	
Data encryption: AE	:5 🔽		
ASCII		Identity :	
Key index (advanced): 1		Password :	
Network key:			
***		Certificate :	
Confirm network key:			<u> </u>
ale			
	ancel		

Once you are finished entering the settings, click **OK** to save the changes.

### 4.3 Available Network

The **Available Network** tab displays all the available wireless networks detected by the Wireless Adapter.

REALTEK 11n USB Wire	less LAN Utility				
$Refresh(\underline{R}) Mode(\underline{M}) View(\underline{V})$	About( <u>A</u> )				
🖃 💡 MyComputer	General Profile Available N	etwork Statu:	s Statistics V	Vi-Fi Protect Setup	
Realtek RTL81885L	Available Network(c)			1	
		<b>c</b> 1 1	1120000 percent		
	SSID	Channel	Encryption	Network Authentication	Sigr
		2	None	Unknown	50
	<sup>24</sup> mecimex 3 WEP Unknown				48
	<i>L</i> obie	3	WEP	Unknown	48
	C sam123456	3	None	Unknown	72
	17	6	None	Unknown	28
	1F_Flytech	6	WEP	Unknown	28
	1 <sup>20</sup> TP-LINK_D5FBF0	6	WEP	Unknown	48
	1 <sup>39</sup> default	6	None	Unknown	46
	1 <sup>30</sup> huanchensmc	6	WEP	Unknown	28
	1 <sup>30</sup> carot	8	TKIP	WPA Pre-Shared Key	48
	🔊 lanready	9	TKIP	WPA Pre-Shared Key	62
	<b>T</b> <sub>30</sub>	11	WEP	Unknown	44
	1 <sup>30</sup> AvantCom	11	WEP	Unknown	28
	DEAL MALDADOMA		142ED	Lielzeeure	<u>=0</u>
	Refre	sh		Add to Profile	
	Note				
	Double click on item	to join/creat	e profile.		
< >>					
✓ Show Tray Icon Radio Off		Disable Adap	iter	C	Close
Ready					NUM

Simply select the wireless network you wish to connect to and double click. If you have created multiple profiles, you can choice the SSID. Then click **Add to profile** to enable that profile.

## 4.4 Configuring Encryption

This section describes the different types of encryption available and how to configure them. In most cases, encryption will be automatically configured and all that will need to be entered is the key, as described in **Section 3 Step 2**. The only time you will need to manually configure the encryption settings is if you are creating a custom profile.

Click on **Profile** then **Add**.

The profile settings box will appear. This is where you will change your encryption settings. As you can see you have some different options to choose from.



Profile Name:       902.1x configure         Network Name(SSID):       902.1x configure         Channel:       (24120Hz)         Wreless network security       GC         This network security       Data encryption         Data encryption       Shared Key         Wreless network security       Weat-PSK         Network key:       Weat-PSK         WAR2-SQL1X       Weat-PSK         WPA2-SQL1X       WPA2-SQL1X         WPA2-SQL1X       Password :         Confirm network key:       Centred         OK       Cancel         Wireless Network Name(SSID):       Immedy-wireless         Profile Name:       Immedy-wireless         Confirm network key:       Immedy-wireless         OK       Cancel         Wireless Network Name(SSID):       Immedy-wireless         Profile Name:       Immedy-wireless         It his is a computer-to-computer(ad hoc) network; wireless       802.1x configure         EAP TYPE :       GC         This is a computer-to-computer(ad hoc) network; wireless       SCI         Channel:       9(24520Hz)       Tunnel :         This network security       This network security       GC         This network security       Immedy-wi	Profile Name:	Profile Name:   Network Name(SSID):     This is a computer-to-computer(ad hoc) network; wreless   Channel:   (24120Hz)     Wireless network security   This network suthentication   Open System   Data encryption   Shared Key   Wareless Network Properties:   Wireless Network Rey:   Confirm network key:   Confirm network key:   Confirm network key:     OK     Cancel     Wireless Network Stared (ad hoc) network; wireless   Network Name(SSID):     It is is a computer-to-computer(ad hoc) network; wireless   Confirm network key:     OK     Cancel     Wireless Network Stared(ad hoc) network; wireless     Profile Name:   Stared(ad hoc) network; wireless     Profile Name:     Stared(ad hoc) network; wireless     Profile Name:     Stared(ad hoc) network; wireless     Wireless Network Stare;     Profile Name:   Stared(ad hoc) network; wireless     Profile Name:     Stared(ad hoc) network; wireless     Profile Name:     Stared(ad hoc) network; wireless     Wireless Network Stare;     Wireless Network; Properties:     Profile Name:   Stared(ad hoc) network; wireless     Network;	Vireless Network Properties:	
Network Name(SSID):       #02.1 x configure         This is a computer-to-computer(ad hoc) network; wireless       #02.1 x configure         Channel:       [C4120HB]         Wireless network security       Image: Computer compu	Network Name(SSID):  This is a computer-to-computer(ad hoc) network; wireless Channel: [(24120H2)]  Network security  This network requires a key for the following: Data encryption: Channel: [(24120H2)]  Data encryption: Channel: [(24120H2)]  Network key:  Confirm	Network Name(SSID):            This is a computer-to-computer (ad hoc) network; wireless         access points are not used.             Channel: [ (24120Hz)             Wireless network requires a key for the following:             Network Authentication:         Open System             Data encryption:             Data encryption:             Network key:             OK             Confirm network key:             OK             Okennei:	Profile Name:	
This is a computer-to-computer(ad hoc) network; wireless   Channel:   Channel:   Channel:   Channel:   Data encryption:   Data encryption:   Open System   Data encryption:   Open System   Data encryption:   Open System   Data encryption:   Open System   WPA-PSK   WPA-PSK   WPA202.1X   WPA2002.1X   Webscription:   OK   Cancel      Virtuess Network Parenty-to-computer(ad hoc) network; wireless    Mire	This is a computer-to-computer(ad hoc) network; wireless   Channel:   Channel:   Channel:   Channel:   Channel:   Channel:   Data encryption:   Data encryption:   Data encryption:   Data encryption:   Weiters:   ASCII   PASSPHRASE   WPA 202.1X:   Weiters:   Confirm network requires a key for the following:   Weiters:   Confirm network key:	This is a computer-to-computer(ad hoc) network; wireless       602.1 x configure         Channel:       [2412096]         Wireless network security       Image: State of the following:         Data encryption       State of key         Data encryption       State of key         ASCII       PASSPHRACE         Wireless Network Rey:       Identity :         OK       Cancel         Vireless Network Rey:       Confirm network key:         OK       Cancel         Vireless Network Scority       State of cey         This is a computer-to-computer(ad hoc) network; wireless       State of cey         Network Name(SSID):       Iarready-wireless         Profile Name:       State of cey         Other Cancel       State of cey         Vireless Network Properties:       State of cey         Profile Name:       State of cey         Other Cancel       State of cey         Vireless network security       This network Authentication:         This network Authentication:       Open System         Data encryption:       Data encryption:         Data encryption:       Data encryption:         Data encryption:       Data encryption:         Data encryption:       Data encryption:	Network Name(SSID):	
This is a computer-to-computer(ad hoc) network; wireless       802.1 x configure         access points are not used.       EAP TYPE ;         Channel:       (24120Hz) *         Wireless network security       Image: Comparison of the following:         Network Authentications       Open System         Data encryption       Shared key         Data encryption       Shared key         Wireless Network Authentications       Open System         WPA-PSK       WPA-PSK         WPA2 802.1X       WPA2 802.1X         Password :       Password :         Confirm network key:       Certificate :         OK       Cancel	This is a computer-to-computer(ad hoc) network; wireless       B02.1x configure         Channel:       (24120HE2)         Wreless network sourtly       Image: State of the following:         Network Authentication:       Open System         Data encryption       Shared Kay         Shared Kay       WFA2-PS (KW)         ASCII       PASSPHRASE         WPA2-PS (KW)       WFA2-PS (KW)         Network Authentication:       Open System         Shared Kay       WFA2-PS (KW)         Network key:       WFA2-PS (KW)         OK       Cancel	This is a computer-to-computer (ad hoc) network; wireless access points are not used.       802.1x configure         Channel:       (24120Hz)         Wireless network security       Data encryption         Data encryption       Open System         Were data encryption       Were data encryption         Network kuthentication:       Open System         Were data encryption       Were data encryption         Network key:       Username :         OK       Cancel         Vire less Network Rey:       Certificate :         OK       Cancel         Vire less Network Name(SSID):       larready-wireless         Network Name(SSID):       larready-wireless         Wireless network easy for the following:       Network Authentication:         Network Name(SSID):       larready-wireless         Wireless network set/or the following:       Network Authentication:         Network Authentication:       Open System         Ota encryption       Desheld         Network Authentication:       Open System         Network Authentication:       Open System         Wireless network easy for the following:       Network Authentication:         Network Authentication:       Open System         Network kley:       Sesteled <tr< td=""><td>Network Numo(Sale /</td><td></td></tr<>	Network Numo(Sale /	
access points are not used.   Channel:   (24120/Hz)   Wireless network security   This network requires a key for the following:   Data encryption:   Open System   Data encryption:   Shared Key   WPA-PSK   WPA-PSK   WPA-PSK   WPA 802.1x   Wireless Network Rey:    Wireless network security  This is a computer-to-computer(ad hoc) network; wireless access points are not used.   Channel:   Channel:   (Channel:   (Channel	access points are not used.   Channel:   (24120Hz)   Wreless network security   This network requires a key for the following:   Data encryption:   Spen System   OK   Confirm network key:   Foolio Name:   Inteless Network Scurity   Wreless network security Wreless network security Wreless network security Wreless network key:   OK   Cancel Foolio Name:   Inteless Network Properties:   Profile Name:   Inteless Network scurity   Wreless network security This is a computer-to-computer (ad hoc) network; wireless   Channel:   It is is a computer-to-computer (ad hoc) network; wireless   Channel:   Inteless network Authentication:   Open System   Wreless network security   This is a computer-to-computer (ad hoc) network; wireless   Channel:   Inteless network security   This network Authentication:   Open System   Data encryption:   Dat	Confirm network key:      Confirm netwo		7 802.1× configure
Channel: (24120Hz) Wireless network security This network Authentication: Open System Data encryption: Shared Key WPA-PSK WP	Channel: [24120Hb]    Wreless network security   This network Authentication:   Data encryption   Shared Key   WPA2-PSK   Were   OK   Cancel               It is a computer-to-computer(ad hoc) network; wireless    Channel:   It is network requires a key for the following:   Network Authentication:   Data encryption   Da	Channel: (24120Hz) Wireless network security This network Authentication: Open System  Data encryption: Shared Key ASCII PASSPHRASE PASE: VPA2-PSK VPA2-PS	access points are not used.	EAP TYPE :
Wireless network security       Tunnel :         This network requires a key for the following:       Open System V         Data encryption       Open System V         Shared Key       WPA2-PSK         WPA2-PSK       WPA2-PSK         WPA2-802.1X       WPA2-9SK         Webwork key:       Certificate :         Cordination       Cancel         Vireless Network Properties:       Centel         Profile Name:       access         Wireless network security       Mined security         This is a computer-to-computer(ad hoc) network; wireless access points are not used.       B02.1x configure         Channel:       9 (2452MH2) *         Wireless network requires a key for the following:       GTC         Tunnel :       Tinnel :	Wireless network security       Tunnel :         It is network nequires a key for the following:       Username :         Data encryption:       Chan AB2_1X         Wireless Network key:       WPA_PSK, WPA_PSK	Wireless network security       Tunnel :         This network requires a key for the following:       Username :         Data encryption       Shared Key         ASCII       PASSPHRASE         WR2-PSK       WPA-PSK         WPA 802.1x       WPA 802.1x         Network key:       Certificate :         Confirm network key:       Certificate :         OK       Cancel         /ireless Network Propertiess       Some a key of the following:         Network Name(SSID):       Iarready-wireless         This is a computer-to-computer(ad hoc) network; wireless       S02.1x configure         Channel:       @ (24520Hz) @         Wireless network security       This is a computer-to-computer(ad hoc) network; wireless         Channel:       @ (24520Hz) @         Wireless network security       This network requires a key for the following:         Network Authentication:       Open System @         Data encryption:       Disabled @         Meters network (requires a key for the following:       Identity :         Network key:       Data encryption:       Disabled @         Password :	Channel: 1 (2412MHz) 👻	GTC
This network requires a key for the following:   Network Authentication   Data encryption   Shared Key   WPA2-PSK   Wealest calculation   OK   Cancel      Vireless Network Properties:   Profile Name:   access points are not used.   Channel:   Octoo      Participation <	This network requires a key for the following: Network Authentication: Open System V Data encryption: Shared Key WPA-25X WA-25X WPA-25X WPA-25X WA-25X WA-25X WPA-25X WA-25X WPA-25X WA-25X WA-25X WPA-25X W	This network requires a key for the following:   Data encryption   Shared Key   ASCII   PASSPHRASE   WPA-PSK   WPA-PSK   WPA-PSK   WPA-PSK   WPA-2800.1X   WPA 2800.1X   WeP   Portile Name:   Interest Pathody-wireless   Network Name(SSID):   Interest Pathody-wireless   Ot Cancel   B02.1X configure EAP TYPE : Grc Interest Pathody-wireless Network Authenbication: Desabled VIPPE: Grc Interest Pathody Pathody Pathody Interest Pathody Pathody Pathody Pathody Wreless network security This network Authenbication: Disabled VIPPE Identity : Password : Identity : Passwo	Wireless network security	Tunnel :
Network Authentication:       Open System       Username :         Data encryption:       Shared Key         WPA-PSK:       WPA-PSK:         WPA2-PSK:       WPA2-PSK:         WPA2 802.1X       WPA28 802.1X         WPA28 802.1X       WPA28 802.1X         WPA28 802.1X       Password :         Confirm network key:       Certificate :         OK       Cancel         /ireless Network Properties:       Ready-wireless         Network Name(SSID):       Ianready-wireless         Barready-wireless       B02.1x configure         EAP TYPE :       GTC         This is a computer-to-computer(ad hoc) network; wireless       GTC         Wireless network security       This network requires a key for the following:	Network Authentication: Open System VI         Data encryption:         Shared Key         WPA-PSK         WPA-PSK         WPA-2PSK         Waterst         OK         Cancel         /ireless Network Properties:         Profile Name:         access points are not used.         Channel:         Channel:         @ C4520Hz)         Wireless network expures         Data encryption:         Deta encryption:         Deta encryption:         Detal encryption: <td< td=""><td>Network Authentication: Open System   Data encryption: Shared Keyn   Data encryption: Shared Keyn   Data encryption: Shared Keyn   Identity : Password :   WPA2-PSK WPA2-PSK   WPA2-BSK Password :   WPA2-BSK Password :   Confirm network key: Certificate :   OK Cancel   Vireless Network Properties:   Network Name: Cancel   Network Name:   Cotannel: 2(452MH2)   Channel: 2(452MH2)   Otta encryption: Open System   Data encryption: Open System   Mireless network security Identity :   This network (advanced): Image:   Mireless network (advanced): Image:   Mireless network (advanced): Image:   Mireless network (advanced): Image:   Data encryption: Open System   Disabled Wep</td><td>This network requires a key for the following:</td><td></td></td<>	Network Authentication: Open System   Data encryption: Shared Keyn   Data encryption: Shared Keyn   Data encryption: Shared Keyn   Identity : Password :   WPA2-PSK WPA2-PSK   WPA2-BSK Password :   WPA2-BSK Password :   Confirm network key: Certificate :   OK Cancel   Vireless Network Properties:   Network Name: Cancel   Network Name:   Cotannel: 2(452MH2)   Channel: 2(452MH2)   Otta encryption: Open System   Data encryption: Open System   Mireless network security Identity :   This network (advanced): Image:   Mireless network (advanced): Image:   Mireless network (advanced): Image:   Mireless network (advanced): Image:   Data encryption: Open System   Disabled Wep	This network requires a key for the following:	
Data encryption Shared Key   WPA-PSK WPA-PSK   WPA 802.1X WPA 802.1X   WPA 802.1X WPA 802.1X   WPA 802.1X Password :   Confirm network key: Certificate :   OK Cancel   Vireless Network Properties:   Network Name(SSID): Ianready-wireless   Network Name(SSID): Ianready-wireless   This is a computer-to-computer(ad hoc) network; wireless 802.1x configure   Channel: 9 (2452NHz)   Wireless network security GIC   This network requires a key for the following: Tunnel :	Data encryption   Data encryption   Data encryption   WPA-PSK   WPA-PSK   WPA-PSK   WPA-PSK   WPA-22-302.1X   WEP 302.1X   OK   Cancel            /ireless Network Rey:       OK   Cancel               /ireless Network Properties:    Profile Name:   Social Computer-to-computer(ad hoc) network; wireless   Channel:   It is is a computer-to-computer(ad hoc) network; wireless   Channel:   It is is a computer-to-computer(ad hoc) network; wireless   Channel:   It is is a computer-to-computer(ad hoc) network; wireless   It is is a c	Data encryption     Shared Key     ASCII     PASSPHRASE     WPA2-PSK   WPA2-9SL   OK   Cancel     /ireless Network Properties:   Profile Name:   Access points are not used.   Channel:   9 (2452MHz) *     Wireless network security   This network requires a key for the following:   Network Authentication:   Obat encryption:   Disabled   Wireless   Key index (advanced):   1   Network key:     Password :   Password :   Password :   Password :	Network Authentication: Open System	Username :
ASCII       PASSPHRASE       WPA+2sk WPA 802.1X WPA 802.1X WPA 802.1X         Key index (advanced):       I         Network key:       Certificate :         Confirm network key:       Certificate :         OK       Cancel         Vireless Network Properties:       Profile Name:         Profile Name:       Parready-wireless         Network Name(SSID):       Ianready-wireless         This is a computer-to-computer(ad hoc) network; wireless       802.1x configure         Channel:       9 (2452MHz)         Wireless network security       Tunnel :	Identity :       Identity :         Identity :       Identity :         WPA2-PSK       WPA2-PSK         WPA2-B32.1X       Password :         WEP B02.1X       Password :         Network key:       Certificate :         OK       Cancel         //ireless Network Properties:       Certificate :         Profile Name:       Ianready-wireless         Network Name(SSID):       Ianready-wireless         Channel:       (2452MHz)         Wreless network security       Ithis is a computer-to-computer(ad hoc) network; wireless         Channel:       (2452MHz)         Data encryption:       Deta encryption:         Data encryption:       Disabled         Mireless network key:       Identity :         Password :       Password :         Key index (advanced):       Image:         Network key:       Identity :	ASCII PASSPHRASE   WPA2-PSK   WPA2-PSK   WPA2-SOLIX   WPA2-SOLIX   Password :   Confirm network key:     OK   Cancel      Vireless Network Properties:   Profile Name:   Identity :   Profile Name:   Identity :   Profile Name:   Identity :   Wireless   Network Name(SSID):     Iarready-wireless   Profile Name:   Identity :   Identity :   Identity :   Profile Name:   Identity :   Identity :   Identity :   Identity :	Data encryption: Shared Key	
WPA 802.1X         WPA 802.1X         WPA 802.1X         WPA 802.1X         WPA 802.1X         Password :         Certificate :         Confirm network key:         OK       Cancel         Vireless Network Properties:         Profile Name:       farready-wireless         Network Name(SSID):       lanready-wireless         This is a computer-to-computer(ad hoc) network; wireless       802.1x configure         EAP TYPE :       GIC         Tunnel:       9 (24521/Hz) *         Wireless network security       This network requires a key for the following:	WPA 202:1X         WPA 202:1X         WPA 202:1X         Network key:         Confirm network key:         OK         Cancel           Vireless Network Properties:        Profile Name:         Istready-wireless         Network Name(SSID):         Ianready-wireless         Channel:         (24520MHz)         Wireless network security         This is a computer-to-computer(ad hoc) network; wireless         Channel:       (24520MHz)         Wireless network security         This network requires a key for the following:         Network Authentication:         Open System         Data encryption:         Disabled         WEP         Viework key:         Very index (advanced):         Image:         Network key:	WPA 2802.1X   WPA28202.1X   Network key:   OK   Confirm network key:     OK     Cancel     Vireless Network Properties:     Network Name(SSID):     Inready-wireless     Network Name(SSID):     Inready-wireless     Network Name(SSID):     Inready-wireless     Vireless network security     Inis is a computer-to-computer(ad hoc) network; wireless     Channel:   9 (2452MHz)     Bata encryption:   Data encryption:   Disabled   WEP     Identity :   Password :   Password :   Password :   Password :	ASCII PASSPHRASE WPA2-P5K	Identity :
WEP 802.1x       Password :         Network key:       Certificate :         Confirm network key:       Certificate :         OK       Cancel         Vireless Network Properties:       Profile Name: [anready-wireless]         Network Name(SSID): [anready-wireless]       802.1x configure         This is a computer-to-computer(ad hoc) network; wireless       802.1x configure         Channel: 9 (24520Hz)        GIC         Wireless network security       Thin network requires a key for the following:	WEP 802.1x       Password :         Network key:       Confirm network key:         OK       Cancel         OK       Cancel         Vireless Network Properties:       Profile Name:         Istready-wireless       Istready-wireless         Network Name(SSID):       Istready-wireless         This is a computer-to-computer(ad hoc) network; wireless       802.1x configure         Channel:       9 (24520M+5)          Wireless network security       Ista encryption:         Data encryption:       Disabled         Username :       Data encryption:         Data encryption:       Disabled         Virelex (advanced):       1         Network key:       Certificate :	WEP 802.1x       Password :         Network key:       Certificate :         OK       Cancel         Vireless Network Properties:       Center         Profile Name:       Iarready-wireless         Network Name(SSID):       Iarready-wireless         Channel:       9 (2452MHz) *         Wireless network security       EAP TYPE :         GTC       Tunnel :         Network Authentication:       Open System *         Data encryption:       Disabled *         Wireless (advanced):       I*         Network key:       Password :	WPA 802.1X WPA2 802.1X	
Key index (advanced):   Network key:     Confirm network key:     OK   Cancel   Vireless Network Properties:     Network Name(SSID):     Inready-wireless     Network Name(SSID):     Inready-wireless     Network Name(SSID):     Inready-wireless     OK     Cancel     Vireless Network Properties:     Network Name(SSID):     Inready-wireless     Network Name(SSID):     Inready-wireless     OK     Channel:   9   (24520Hz):   Wireless network security   This is a computer-to-computer(ad hoc) network; wireless   GIC   Tunnel:   GIC   Tunnel:	Key index (advanced): Image: Im	Key index (advanced):   Image: Image	WEP 802.1×	Password :
OK       Certificate :         OK       Cancel         /ireless Network Properties:         Profile Name:       Ianready-wireless         Network Name(SSID):       Ianready-wireless         This is a computer-to-computer(ad hoc) network; wireless       802.1x configure         EAP TYPE :       GTC         Channel:       9 (24520Hz)         Wireless network security       This network requires a key for the following:	Confirm network key: Confirm network key: Confirm network key: Confirm network key: Confirm network key: Configure Profile Name: Cancel /ireless Network Properties: Profile Name: Cancel /ireless Network Name(SSID): Cancel Profile Name: Cancel Network Name(SSID): Cancel Network Name(SSID): Cancel Network secure Channel: (24520Hz)) Wireless network secure Channel: (24520Hz)) Network requires a key for the following: Network Authentication: Open System V Data encryption: Disabled Key index (advanced):	Confirm network key: Confirm network key: Cancel Certificate : Confirm network key: Cancel Creatificate : Configure Profile Name: Intready-wireless Network Name(SSID): Intready-wireless Network Name(SSID): Intready-wireless Channel: 9 (2452MHz) Wireless network security This network requires a key for the following: Network Authentication: Open System V Data encryption: Disabled Mireless network security This network requires a key for the following: Network Authentication: Open System V Data encryption: Disabled Key index (advanced): 1 V Network key: Certificate : Certificate :	Key index (advanced):	
Confirm network key:         OK         Cancel         Vireless Network Properties:         Profile Name:       Ianready-wireless         Network Name(SSID):       Ianready-wireless         This is a computer-to-computer(ad hoc) network; wireless access points are not used.       802.1x configure         Channel:       9 (24520Hz)         Wireless network security       GTC         This network requires a key for the following:       Tunnel :	Confirm network key:         OK         Cancel         /ireless Network Properties:         Profile Name:         Profile Name:         Iarready-wireless         Network Name(SSID):         Iarready-wireless         Network Name(SSID):         Iarready-wireless         Channel:         9         (2452NHz)         Wireless network security         This network cuthentication:         Opta encryption:         Data encryption:         Data encryption:         Data encryption:         Obsabled         WEP         Password :         Key index (advanced):         1         Network key:	Confirm network key:         OK       Cancel         Vireless Network Properties:         Profile Name:       farready-wireless         Network Name(SSID):       lanready-wireless         This is a computer-to-computer(ad hoc) network; wireless       802.1x configure         Channel:       9 (2452/MHz)         Wireless network security       Image: Configure         Wireless network security       Image: Configure         Network Authentication:       Open System         Data encryption:       Disabled         Metwork (advanced):       Image: Certificate :         Key index (advanced):       Image: Certificate :	Network Noy.	Certificate :
OK       Cancel         /ireless Network Properties:         Profile Name:       Ianready-wireless         Network Name(SSID):       Ianready-wireless         This is a computer-to-computer(ad hoc) network; wireless       802.1x configure         EAP TYPE :       GTC         Channel:       9 (2452MHz)          Wireless network security       This network requires a key for the following:	OK       Cancel         /ireless Network Properties:         Profile Name:       lanready-wireless         Network Name(SSID):       lanready-wireless         This is a computer-to-computer(ad hoc) network; wireless       802.1x configure         Channel:       9 (2452MHz)         Wireless network security       GTC         This network requires a key for the following:       Username :         Data encryption:       Disabled         Metwork (advanced):       1         Key index (advanced):       1         Network key:       Certificate :	OK   OK   Cancel     Vireless Network Properties:     Profile Name:   Iarready-wireless     Network Name(SSID):     Iarready-wireless     Iarready-wireless     B02.1x configure     B02.1x configure     EAP TYPE :     GTC     Network requires a key for the following:     Network Authentication:     Deta encryption:   Disabled     Vireless (advanced):     Image: Network (advanced):     Image: Netw	Confirm petwork key	
OK       Cancel         Vireless Network Properties:         Profile Name:       Ianready-wireless         Network Name(SSID):       Ianready-wireless         This is a computer-to-computer(ad hoc) network; wireless access points are not used.       802.1x configure         Channel:       9 (2452MHz)          Wireless network security       This network requires a key for the following:	OK       Cancel         /ireless Network Properties:         Profile Name:       Iarready-wireless         Network Name(SSID):       Iarready-wireless         This is a computer-to-computer(ad hoc) network; wireless       802.1x configure         Channel:       9 (24520Hz)         Wireless network security       GTC         This network security       Tunnel :         Data encryption:       Disabled         Data encryption:       Disabled         Username :       Identity :         Password :       Password :         Rey index (advanced):       1         Network key:       Certificate :	OK       Cancel         Vireless Network Properties:         Profile Name:       Ianready-wireless         Network Name(SSID):       Ianready-wireless         This is a computer-to-computer(ad hoc) network; wireless       802.1x configure         Channel:       9 (2452MHz)         Wireless network security       String         This network requires a key for the following:       Network Authentication:         Data encryption:       Disabled         Wireless (advanced):       Image: Disabled         Key index (advanced):       Image: Disabled         Network key:       Image: Disabled		
Network Name(SSID):       Ianready-wireless         This is a computer-to-computer(ad hoc) network; wireless access points are not used.       802.1x configure EAP TYPE :         Channel:       9 (2452MHz)          Wireless network security       GTC         This network requires a key for the following:       This network requires a key for the following:	Network Name(SSID):       Ianready-wireless         This is a computer-to-computer(ad hoc) network; wireless       802.1x configure         access points are not used.       EAP TYPE :         Channel:       9 (2452MHz)         Wireless network security       Immediate the following:         This network requires a key for the following:       Immediate the following:         Network Authentication:       Open System         Data encryption:       Disabled         Disabled       Identity :         Key index (advanced):       1         Network key:       Certificate :	Network Name(SSID): lanready-wireless   This is a computer-to-computer(ad hoc) network; wireless access points are not used. 802.1x configure   Channel: 9 (2452MHz) *   Wireless network security GTC   This network requires a key for the following: Network Authentication:   Data encryption: Disabled *   Data encryption: Disabled *   Mireless network (advanced): 1   Key index (advanced):   1 *   Key index (advanced):   1 *   Certificate :	Vireless Network Properties:	
This is a computer-to-computer(ad hoc) network; wireless Channel: 9 (2452MHz) Wireless network security This network requires a key for the following:	This is a computer-to-computer(ad hoc) network; wireless access points are not used.       802.1x configure         Channel:       9 (2452MHz)         Wireless network security       GTC         This network requires a key for the following:       Image: Computer (2452MHz)         Network Authentication:       Open System         Data encryption:       Disabled         Disabled       Username :         VEP       Identity :         Password :       Password :         Key index (advanced):       Image: Certificate :	This is a computer-to-computer(ad hoc) network; wireless 802.1x configure   access points are not used. EAP TYPE :   Channel: 9 (2452MHz) * GTC   Wireless network security This network requires a key for the following:   Network Authentication: Open System * Username :   Data encryption: Disabled * Identity :   Network (advanced): 1 * Network (advanced): 1 *	/ireless Network Properties: Profile Name: Tanready-wireless	
This is a computer-to-computer(ad hoc) network; wireless Channel: 9 (2452MHz) Wireless network security This network requires a key for the following:	This is a computer-to-computer(ad hoc) network; wireless       Goct X. Computer         Channel:       9 (2452MHz)         Wireless network security       GTC         This network requires a key for the following:       Tunnel :         Data encryption:       Disabled         Data encryption:       Disabled         Username :       Identity :         Password :       Password :         Key index (advanced):       1         Network key:       Certificate :	This is a computer-to-computer(ad hoc) network; wireless access points are not used. Channel: 9 (2452MHz)  Wireless network security This network requires a key for the following: Network Authentication: Open System  Data encryption: Disabled  Disabled  Identity : Rey index (advanced): 1  Network key: Certificate :	Vireless Network Properties: Profile Name: Tanready-wireless Network Name(SSID): Tanready-wireless	
Channel: 9 (2452MHz) GTC Wireless network security This network requires a key for the following:	Channel: 9 (2452MHz) Wireless network security This network requires a key for the following: Network Authentication: Open System Data encryption: Disabled ASCII PASSPHRASE USEP Key index (advanced): 1 Network key: Certificate :	Channel: 9 (2452MHz)   Wireless network security This network requires a key for the following: Network Authentication: Open System  Data encryption: Disabled Disabl	Vireless Network Properties: Profile Name:  anready-wireless Network Name(SSID):  anready-wireless	902 tie configure
Wireless network security This network requires a key for the following:	Wireless network security   This network requires a key for the following:   Network Authentication:   Open System   Data encryption:   Disabled   Mireless network requires a key for the following:   Network Authentication:   Open System   Data encryption:   Disabled   Disabled   WEP     Rey index (advanced):   Network key:     Certificate :	Wireless network security       Tunnel :         This network requires a key for the following:       Username :         Data encryption:       Disabled         Data encryption:       Disabled         Mireless network (advanced):       1         Network key:       Certificate :	/ireless Network Properties: Profile Name: Ianready-wireless Network Name(SSID): Ianready-wireless This is a computer-to-computer(ad hoc) network; wireless access points are not used.	802.1x configure EAP TYPE :
This network requires a key for the following:	This network requires a key for the following:   Network Authentication: Open System    Data encryption: Disabled   Data encryption: Disabled   Mascell   PASSPHRASE   WEP     Password :   Rey index (advanced): 1   Network key:   Certificate :	This network requires a key for the following:       Image: Constraint of the following:         Network Authentication:       Open System Image: Constraint of the following:         Data encryption:       Disabled         Disabled       Image: Constraint of the following:         ASCII       PASSPHRASE         Very index (advanced):       Image: Constraint of the following:         Network key:       Certificate :	Vireless Network Properties: Profile Name: Ianready-wireless Network Name(SSID): Ianready-wireless This is a computer-to-computer(ad hoc) network; wireless access points are not used. Channel: 0.7245200453	802.1x configure EAP TYPE : GTC
	Network Authentication:     Open System     Username :       Data encryption:     Disabled     Identity :       ASCII     PASSPHRASE     WEP         Key index (advanced):     1       Network key:     Certificate :	Network Authentication:     Open System     Username :       Data encryption:     Disabled     Identity :       ASCII     PASSPHRASE     WEP         Key index (advanced):     1       Network key:     Certificate :	Vireless Network Properties: Profile Name: anready-wireless Network Name(SSID): anready-wireless This is a computer-to-computer(ad hoc) network; wireless access points are not used. Channel: 9 (2452MHz)  Wireless network security	802.1x configure EAP TYPE : GTC Tunnel :
Network Authentication: Open System 💽 Username :	Data encryption:       Disabled         Disabled       Disabled         Identity :       Identity :         Rey index (advanced):       1         Network key:       Certificate :	Data encryption:       Disabled       Image: Constraint of the second se	Vireless Network Properties: Profile Name: anready-wireless Network Name(SSID): anready-wireless This is a computer-to-computer(ad hoc) network; wireless access points are not used. Channel: 9 (2452MHz)  Wireless network security This network requires a key for the following:	802.1x configure EAP TYPE : GTC Tunnel :
Data encryption: Disabled	ASCII     PASSPHRASE     Disabled WEP     Identity :       Key index (advanced):     1     Password :       Network key:     Certificate :	ASCII     PASSPHRASE     Disabled WEP     Identity :       Key index (advanced):     1     Password :       Network key:     Certificate :	Vireless Network Properties: Profile Name:  anready-wireless Network Name(SSID):  anready-wireless This is a computer-to-computer(ad hoc) network; wireless access points are not used. Channel: 9 (2452MHz)  Wireless network security This network requires a key for the following: Network Authentication: Open System	802.1x configure EAP TYPE : GTC Tunnel : Username :
Disabled Identity :	Key index (advanced):     1     Password :       Network key:     Certificate :	Key index (advanced):     1       Network key:     Certificate :	Vireless Network Properties: Profile Name: anready-wireless Network Name(SSID): lanready-wireless This is a computer-to-computer(ad hoc) network; wireless Channel: 9 (2452MHz)  Wireless network security This network requires a key for the following: Network Authentication: Open System  Data encryption: Disabled	802.1x configure EAP TYPE : GTC Tunnel : Username :
ASCII	Key index (advanced): 1  Password : Password : Certificate :	Key index (advanced): 1 V Network key:	Vireless Network Properties: Profile Name: anready-wireless Network Name(SSID): anready-wireless This is a computer-to-computer(ad hoc) network; wireless Channel: 9 (2452MHz)  Wireless network security This network requires a key for the following: Network Authentication: Open System Data encryption: Disabled Disabled	802.1x configure EAP TYPE : GTC Tunnel : Username :
Password :	Key index (advanced): 1 V Network key: Certificate :	Key index (advanced): 1 V	Vireless Network Properties:         Profile Name:       Ianready-wireless         Network Name(SSID):       Ianready-wireless         This is a computer-to-computer(ad hoc) network; wireless access points are not used.       Channel:         Channel:       9 (24520MHz)         Wireless network security       Wireless network security         This network requires a key for the following:       Network Authentication:         Open System       Data encryption:         Disabled       Disabled         WEP       WEP	802.1x configure EAP TYPE : GTC Tunnel : Username : Ligentity :
Key index (advanced): 1	Network key: Certificate :	Network key:	Vireless Network Properties:         Profile Name:       Ianready-wireless         Network Name(SSID):       Ianready-wireless         This is a computer-to-computer(ad hoc) network; wireless access points are not used.       Channel:         Ghannel:       9 (2452MHz)         Wireless network security       Wireless network security         This network requires a key for the following:       Network Authentication:         Data encryption:       Disabled         Oisabled       WEP	802.1x configure EAP TYPE : GTC Tunnel : Username : Light to the second
Network key:	Colundor,		Vireless Network Properties:         Profile Name:       Ianready-wireless         Network Name(SSID):       Ianready-wireless         This is a computer-to-computer(ad hoc) network; wireless         access points are not used.         Channel:       9 (2452MHz)         Wireless network security         This network requires a key for the following:         Network Authentication:       Open System         Data encryption:       Disabled         WEP       Key index (advanced):         I       I	802. 1x configure EAP TYPE : GTC Tunnel : Username : Lidentity : Password :
Cerunicate ;			Vireless Network Properties:         Profile Name:       Ianready-wireless         Network Name(SSID):       Ianready-wireless         This is a computer-to-computer(ad hoc) network; wireless access points are not used.       Channel:         Ghannel:       9 (2452MHz)         Wireless network security       This network requires a key for the following:         Network Authentication:       Open System         Data encryption:       Disabled         Missional       PASSPHRASE         Key index (advanced):       1         Network key:       1	802. 1x configure         EAP TYPE :         GTC         Tunnel :         Username :         Identity :         Password :         Contificate :
	A second s	Confirm network key;	Vireless Network Properties:         Profile Name:       Ianready-wireless         Network Name(SSID):       Ianready-wireless         This is a computer-to-computer(ad hoc) network; wireless         access points are not used.         Channel:       9 (2452MHz) *         Wireless network security         This network requires a key for the following:         Network Authentication:       Open System *         Data encryption:       Disabled *         MSCII       PASSPHRASE       Disabled *         Key index (advanced):       1 *         Network key:       1 *	802.1x configure EAP TYPE : GTC Tunnel : Username : Identity : Password : Certificate :

These three are meant for the home user:

**Disable:** No encryption in use

**WEP:** The most popular but least secure form of encryption **WPA/WPA2-PSK:** The most secure and recommended level of encryption

The remaining two are for use in a corporate environment that utilizes authentication servers. If you do not know if you have an authentication server, you probably don't and will want to stick with the three options above.

#### Configuring WEP encryption

Profile Name:	lanready-wireless	
letwork Name(SSID):	lanready-wireless	
This is a computer-t access points are n	o-computer(ad hoc) network; wireless ot used.	802.1x configure EAP TYPE :
Channel:	9 (2452MHz)	GTC
Wireless network sec	urity	Tunnel :
This network requires	a key for the following:	
Netw	ork Authentication: Shared Key	Username :
	Data encryption: WEP	
	SPHRASE	Identity :
Key index (advanced)		Password :
Network key:		Certificate :
Confirm network key:		

Select **WEP** from the **Data encryption** box.

Under **Network Authentication**, you will want to select **Shared key** or **Open System**, depending on the router settings.

**ASCII / PASSPHRASE** will also be predetermined by the router. Refer to your routers settings to find out what you should select here.

**Key Index** is the key on the router that is currently in use. Refer to your routers settings to find out what you should choose.

Once you are done, click **OK** to save your settings.

Profile Name:			
Vetwork Name(SSID):			
This is a computer-to-computer(a access points are not used.	d hoc) network; wireless	802.1× configure EAP TYPE :	
Channel: 1 (2412MHz		GTC	2
Wireless network security		Tunnel :	
This network requires a key for the	following:		2
Network Authentic	ation: WPA-PSK 🛛 🛃	Username :	
Data encry	Dtion: TKIP	Identity :	
Key index (advanced): 👔 👽		Password :	
Network key:		Certificate :	
Confirm network key:	1		×

#### Configuring WPA/WPA2-PSK Encryption (for home users)

Select WPA-PSK/WPA2-PSK from the Network Authentication box.

Under **Data encryption** select either **TKIP** or **AES** depending on the settings for your router.

Enter the encryption key into the **KEY** box.

Profile Name:	
Network Name(SSID):	
This is a computer-to-computer(ad hoc) network; wire access points are not used.	less 802.1× configure EAP TYPE :
Channel: 1 (2412MHz)	GTC
Wireless network security	Tunnel :
This network requires a key for the following:	
Network Authentication: WPA 802.1X	Username :
Data encryption:     AES       ASCII     PASSPHRASE     TKIP       AES     AES	Identity :
ala a baa a batana	Password :
Key index (advanced):	
Network key:	Certificate :
Confirm network key:	

#### Configuring WPA/WPA2 Encryption (for corporate networks)

Select WPA 802.1x / WPA2 802.1x from the Network Authentication box.

Under **Data encryption** select either **TKIP** or **AES** depending on the settings for your router.

Profile Name:	
letwork Name(SSID):	
This is a computer-to-computer(ad hoc) network; wireles	802.1× configure EAP TYPE :
Channel: 1 (2412MHz)	GTC 💌
Wireless network security	GIC
This network requires a key for the following:	LEAP
Network Authentication: WPA 802.1X	TTLS PEAP
Data encryption: TKIP	
	Identity :
	Password :
Network key:	
	Certificate :
Confirm network key:	

The adapter supports GTC,TLS, LEAP, TTLS, and PEAP authentication methods. Refer to your system administrator for information about what settings you should enter here.

### 4.5 Ad-hoc and Peer-to-Peer Wireless Networks

Ad-hoc networking is used when you want to connect two or more computers together but you don't have a router.

In ad-hoc mode, you lose a lot of the features that come with a router. The maximum connection speed drops significantly to 11Mbps. WEP encryption is theonly security available in ad-hoc mode.

REALTEK 11n USB Wire	less LAN Utility	
Refresh( <u>R)</u> Mode( <u>M</u> ) View( <u>V</u> )	About( <u>A</u> )	
MyComputer Realtek RTL81885L	General Profile Available Network Status Statistics Wi-Fi Protect S Available Profile(s)	etup
	Profile Name SSID [ Clanready lanready	Add
		Remove
		Edit
		Duplicate
		Set Default
Show Tray Icon	Disable Adapter	Cloce
Radio Off		LClose
Ready		NUM

To set up ad-hoc mode, you will need to create a new profile.

#### Open the Wireless Monitor.

Click on **Profile**, then click on **Add**. The profile settings box will appear.

Wireless Network Properties:	
Profile Name:	
Network Name(SSID):	
This is a computer-to-computer(ad hoc) network; wireless access points are not used.	802.1x configure EAP TYPE :
Channel: 1 (2412MHz)	GTC
Wireless network security	Tunnel :
This network requires a key for the following:	×
Network Authentication: WPA-None	Username :
Data encryption: AES	
ASCII PASSPHRASE	Identity :
Key index (advanced):	Password :
Network key:	Certificate :
Confirm network key:	
OK	

First change the network type to **Adhoc**. (Infrastructure is for when you are using a router).

Enter a profile name into the **Profile Name** box so that you can identify the profile.

Type in a network name (SSID) into the SSID box

#### Select your desired Channel

You can also choose between no security or WEP security. If you choose WEP security, you can follow the instructions in the **Configuring Encryption** section of the manual.

Click **OK** to save the profile.

REALTEK 11n USB Wire	less LAN Utility				
Refresh(R) Mode(M) View(V)	About( <u>A</u> )				
🖃 💡 MyComputer	General Profile Available No	etwork Status	Statistics V	Vi-Fi Protect Setup	
Realtek RTL81885L	available Network(s)	in the second se	11 11 11 11 11		1
		Channe al	-	Nick and a share state	Circu A
	55ID	Channel	Encryption	Network Authentication	Sigr
	A	2	None	Unknown	50
		3	WEP	Unknown	48
		3	WEP	Unknown	48
	(1) sam123456	3	None	Unknown	72
	1 <sup>22</sup>	6	None	Unknown	28
	1F_Flytech	6	WEP	Unknown	28
	TP-LINK_D5FBF0	6	WEP	Unknown	48
	I" default	6	None	Unknown	46
	I"huanchensmc	6	WEP	Unknown	28
	1"carot	8	TKIP	WPA Pre-Shared Key	48
	I lanready	9	TKIP	WPA Pre-Shared Key	62
	I.	11	WEP	Unknown	44
	1 <sup>39</sup> AvantCom	11	WEP	Unknown	28 🌏 🚽
			387ED	1 lelasor us	>
	2020	41		80 C 20 C	
	Refre	sh		Add to Profile	
	Noto				
	Backle skelves week	ka 1414 (m. 1			
	Double click on item	to join/creat	e pronie.		
< >					
✓ Show Tray Icon Radio Off		Disable Adap	ter		Close
Ready					NUM

Once that is done, click on the **Available Network**.

Select your new profile from the profile chooser and double click to enable the profile.

You will need to configure all other computers that you are planning on connecting to your ad-hoc network with the same settings that you input on this screen. Every computer has to be set up exactly the same. If any of the settings are different, the network will not function.

**Troubleshooting:** If you are having trouble connecting, if the connection is slow, or if it is unstable, you will want to try changing channels. Start with channel 1 and work your way up until you find a channel that gives you a stable connection. Each time you change the channel, save the settings, then reboot the computer. Also make sure that you do this on every ad-hoc machine so that they will all be set to the same channel.

### 4.6 Wi-Fi Protected Setup (WPS)

Wi-Fi Protected Setup<sup>™</sup> (**WPS**) is a new and easy way to configure the encryption for your wireless network clients. In order to use it with your router, firstly, you will need to have a router that supports this feature, like the AR670W Wireless N Router. Secondly, you must configure the wireless encryption on the router; you can find instructions for configuring it in the User Manual located on the CD that came with your router. If your wireless router does not support WPS, you will need to set up the wireless security manually and you can skip this section.

In the instructions below, we are going to use the utility, Wireless Monitor that comes with the Wireless N adapters and the Wireless router as the example.

**Step 1** Go to the computer with the Wireless N adapter and open the Wireless Monitor. Click on the **Wi-Fi Protect Setup** or push hardware push button.

🐣 REALTEK 11n USB Wire	less LAN Utility
Refresh(R) Mode(M) View(V)	About(A)
MyComputer Realtek RTL81885L	General       Profile       Available Network       Status       Statistics       Wi-Fi Protect Setup         Wi-Fi Protected Setup (WPS)         An easy and secure setup solution for Wi-Fi network         Pin Input Config (PIN)       After pushing the PIN button.Please enter the PIN code into your AP.         PIN Code :       63912968         Pin Input Config (PIN)         After pushing the PBC button.Please push the physical button on your AP or visual button on the WPS config page.         Push Button         After pushing the PBC button Config (PBC)
Show Tray Icon Radio Off	Disable Adapter Close
Reauy	NUM

**Step 2** Choose your configuration method, either **Push Button** or **Pin Code** and click **Next**.



**Step 3a** If you choose the Push Button method, make sure that you click on the **Push Button Config** button.

REALTEK 11n USB Wire	less LAN Utility	
Refresh(E) Mode(M) View(V)	About( <u>A</u> )	
YyConputer     Realtek RTL81685.	Gereral Protie Available Network Status Statustics Wi-Fi Protect Selup Wi-Fi Protected Setup (WPS) An easy and secure setup solution for Wi-Fi network Protect Confor (RNA)	
	Protected Setup - PBC method      WiFi Protected Setup - PBC method      If there is more then one AP on the PBC mode, there will be     [Session Overlap].Please using PIN method or wait for a     while puch the button again.  Status : Initial WPS  Complete :  Push Button Config (PBC)  Cancel	your n.on
Show Tray Icon	Disable Adapter	Close

**Step 3b** Push the WPS button on the router, and the blue LED will start blinking. The router will now start the handshake with the wireless adapter, then the connection will be built up in couple minutes.

Note: You will find the WPS button at the same place on Support WPS Wireless N Router.

Step 4a If you choose the Pin Code method, write down the PIN and click Yes.

REALTER 11n USB Wind	iless LAN Utility	
Refresh(B) Mode(M) Wew(Y) My/Computer Realtek RTLBJBBS2	About(a) General Profile Available Network Status Statutics WiFFiProtect Setup WI-Fi Protected Setup (WPS) An easy and secure setup solution for Wi-Fi network Pin Input Config (PIN) After pushing the PIN button.Please enter the PIN code into your AP. PIN Code : 63912968 Pin Input Config (PIN) Wi-Fi Protected Setup (WPS) Do you want to select a specific AP ? 是① 否创	
Show Tray Icon	Disable Adapter	Close
Ready		NUM

Choice you want to connect AP then click Select

Refresh(R) Mode(M) View(Y)	Abour(A)
E WYComputer	General Profile Available Network Status Statistics Wi-Fi Protect Setup
	Wi-Fi Protected Setup - Select AP
	WPS AP Name WPS AP MAC
	AD-HOG 00:18:11:F0:6C:70 to your huanchensmc 00:13:F7:8D:68:B0
	on on
	Refresh Cancel
Show Tray Icon	Dicable Adapter Close

**Step 4b** Log in to your router's configuration page from the web browser and click on **Wireless**. Then click **Wireless security**. Make sure that the Wi-Fi Protected Setup **Enable** box is checked. Click the **Add Wireless Device Wizard** button.

Step 4c Enter the Pin Code in the Pin Number box and click Connect.

After a few moments both the router configuration screen and the adapter configuration screen should show a message telling you that you are connected.

**Step 4d** Click **Continue** on the router configuration screen.

*Note:* If you cannot connect successfully with WPS, you need to log in to your router's configuration and click on **Wireless**. Then click **Wireless security**. Make sure that the Wi-Fi Protected Setup **Enable** box is checked.

### 4.7 Access Point Mode

Access point mode allows you to set up your computer to act as a wireless router and share its existing wired connection with other computers. In order to use this mode, the computer will need to be hard wired directly to the internet.

To switch into access point mode click on **Mode** at the top of the utility window and click on **Access Point**.

🦉 REAL <mark>TEK 11n US</mark> B Wire	eless LAN Utility	
Refresh(R) Mode(M) View(V)	About( <u>A</u> )	
WyC      Station     Access Point	General Profile Available Network Status Statistics Wi-Fi Protect Setup	1
	Status: Associated	
	Speed: Tx:54 Mbps Rx:54 Mbps	
	Type: Infrastructure	
	Encryption: TKIP	
	SSID: lanready	
	Signal Strength: 90%	
	Link Quality: 98%	
	Network Address:	
	MAC Address: 00:E0:4C:71:00:47	
	IP Address: 192,168.3.79	
	Subnet Mask: 255,255,0	
	Gateway: 192,168,3,254	
	ReNew IP	
Badio Off	Uisable Adapter	Close
		NUM

The system tray icon will change:



And the interface will change providing you with new options:

REALTEK 11n USB Wireless	LAN Utility	
Refresh( <u>R)</u> Mode( <u>M)</u> View( <u>V</u> ) Abo	ut( <u>A</u> )	
MyComputer Realtek RTL8188SL	Advanced Statistics ICS          SSID: userpc_AP         BSSID: 00:E0:4C:71:00:47         Association Table         AID       MAC Address         Life Time         Config	
Radio Off		Close
Ready		NUM

**SSID** displays the current SSID setting of the adapter. The SSID is what other computers will need to look for when trying to connect to your adapter. **BSSID** is the physical address or MAC address of your wireless adapter.

**Association Table** shows you the remote computers that are currently connected to your wireless adapter.

Clicking **Config** will take you to the following menu:

In the **Advanced** tab, you can change settings like **Beacon Interval**, **DTIM Period**, and **Preamble Mode** to fine tune your adapter's connection. Click apply after making changes so that they take effect. If you need to change the settings back to what they were originally, click on **Set Defaults**, then click **Apply**.

Profile Name:       Access Point Mode         Network Name(SSID):       anready-Tony_AP			
Network Name(SSID): anready-Tony_AP			
This is a computer-to-computer(ad hoc) network; wireless			
access points are not used.			
Channel: 1 (2412MHz) V			
This network requires a key for the following:			
Network Authentication: Open System 🗸			
Data encryption: Disabled			
Key index (advanced):			
Confirm betwork key:			
QK <u>C</u> ancel			

Here you can set all of the options for your adapter.

**Network Name(SSID)** this is the name that your wireless adapter will be broadcasting. **Channel** allows you to select which channel you want the network to operate on. You may want to change this if you are having connectivity issues.

**Wireless Network Security** can be set if you want to secure your network. The process is the same as client mode and you can follow the instructions in Section 4.4 to configure the encryption.

REAL TEK 11n USB Wire	less LAN Utility	
Refresh(E) Made(M) View(V)	About( <u>A</u> )	
WyComputer     S Realtek RTL01005L	General Advanced Statistics ICS	
	General Deacon Interval	
	100	
	DTIM Period:	
	3	
	Preamble Mode	
	Short 🖌	
	Set Defaults Apply	
Contraction (St.		
Show Tray Icon Radio Off	Disable Adapter	Close
Ready		NUM

**ICS** or Internet Connection Sharing shows the device that the adapter is using to provide an internet connection to wireless clients. This is automatically configured during the setup.

REAL TEK 11 n USB Wire	less LAN Utility	
Refresh(R) Mode(M) View(V)	About(A)	Concernance of the
E S MyComputer	General Advanced Statistic ICS Setting Internet Connection Sharing (ICS)	
	ConnName Device Name CLCal Area Connecti CGLAPCIGT2 CGLAPCIGT	ase-T Controller
	Public Network	
	Local Area Connection 2 CG-LAPCIGT2	
Show Tray Icon	🔲 Dísable Adapter	Close
Ready		NUM

## 4.8 About

The About tab shows the Utility, Driver versions.



# **Appendix A – Features**

#### **Frequency Band**

• 2.4~2.5 GHz

#### Standards

- IEEE 802.11b / 802.11g
- 802.11n draft 2.0

#### Interface

• USB 2.0

#### Security

• WEP,TKIP,AES-CCMP,WPA-PSK,WPA2-PSK,802.1x, , EAP-TLS,EAP-TTLS,PEAP(EAP-GTC),PEAP(EAP-MSCHAPv2), Jumpstar2.0

#### **Transmitted Power**

- 802.11b:19.08dBm
- 802.11g: 18.67dBm
- 802.11n HT 20MHz: 18.84dBm
- 802.11n HT 40MHz: 18.16dBm

#### Data Rate

- Transmitting: Up to 300Mbps\*
- Receiving: Up to 300Mbps\*

#### **System Requirements**

- 300 MHz processor or better
- 512Byte RAM
- Available USB port

#### **OS Compatibility**

- Windows 2000/XP/Vista
- linux
- MAC OS 10.4/10.5

#### Dimensions

• 33 x 15 x 7mm (L x W x H)

#### Temperature

- Operating: 0°C to 55°C
- Storage: -20°C to 70°C

#### Humidity

- Operating: 10% to 80% Non-Condensing
- Storage: 5% to 90% Non-Condensing

#### Warranty

• Limited 1-year warranty

#### Safety Approvals

• FCC, CE, IC

# **Appendix B – Information**

#### Federal Communication Commission Interference Statement

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

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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

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

#### **IMPORTANT NOTE:**

#### **FCC Radiation Exposure Statement:**

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

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

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

#### **Industry Canada Statement**

This device complies with RSS-210 of the Industry Canada Rules. 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

#### **IMPORTANT NOTE:**

#### **IC Radiation Exposure Statement:**

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

# **Technical Support**

E-mail: support@kozumi-usa.com

Web Site: www.kozumi-usa.com

\*Theoretical maximum wireless signal rate derived from IEEE 802.11g standard and IEEE 802.11n draft specification version 2.0. Actual data throughput will vary. Network conditions and environmental factors, including volume of network traffic, building materials and construction, mix of wireless products used, radio frequency interference (e.g., cordless telephones and microwaves) as well as network overhead lower actual data throughput rate. Specifications are subject to change without notice. All products and trademarks are the property of their respective owners.