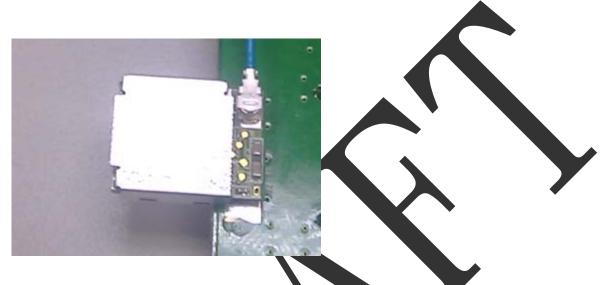


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Hardware Quick Installation Guide

Installing the 802.11n 1x1 Wireless LAN USB module

- 1. Power down the computer.
- 2. Plug the 802.11n 1x1 Wireless LAN USB module board to motherboard slot
- 3. Connect antennas used I-PEX connector for WiFi antenna.
- 4. Power on the computer.



Un-installing the 802.11n 1x1 Wireless LAN USB module

Power down the compute

- 1. Removed WiFi antenna
- 2. Carefully removed the 802.11n 1x1 Wireless LAN USB module from the motherboard slot.
- 3. Power on the computer.



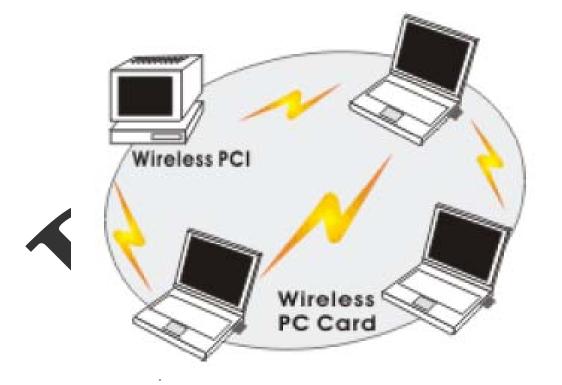
INTRODUCTION

The 802.11n 1x1 Wireless LAN USB module is a device that allows you connect your computer to a wireless local area network (LAN). A wireless LAN allows your system to use wireless Radio Frequency (RF) technology to transmit and receive data without physically attaching to the network. The Wireless protocols that come with this product ensure data security and isolation from interference generated by other radio frequencies. This card also allows you to take full advantage of your computer's mobility with access to real-time information and online services anytime and anywhere. In addition, this device eliminates the bother of pulling cable through walls and under furniture. It even allows you to place your system in locations where cabling is impossible. Modifying and augmenting networks has never been so easy.

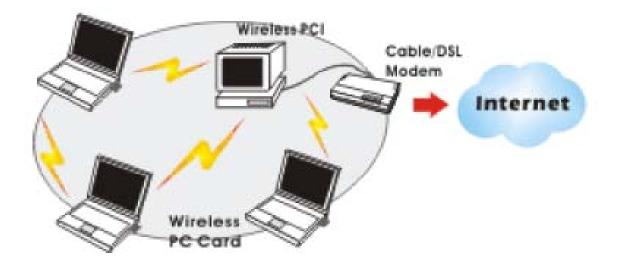
Wireless Network Options

The Peer-to-Peer Network

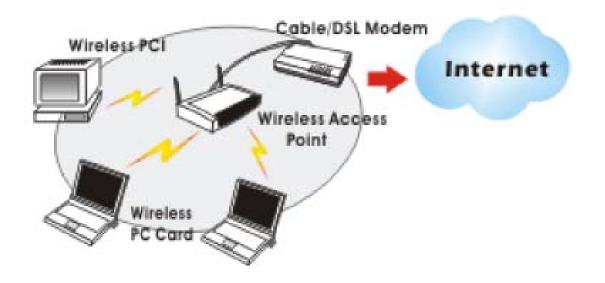
This network installation lets you set a small wireless workgroup easily and quickly. You can share files and printers between each PC and laptop.



You can also use one computer as an Internet Server to connect to a wired global network and share files and information with other computers via a wireless LAN.



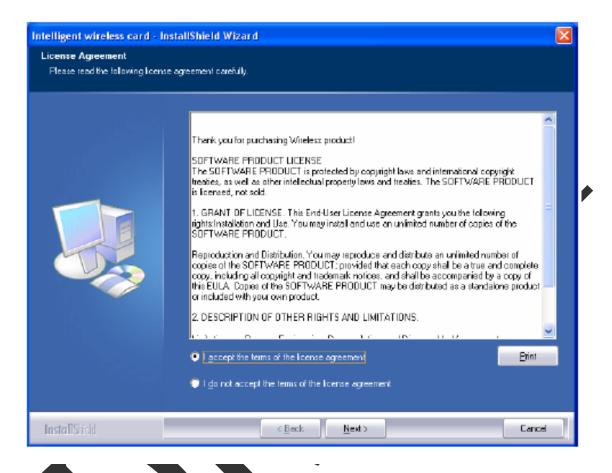
The Access Point Network The network installation allows you to share files, printers, and Internet access much more conveniently. With Wireless LAN Cards, you can connect wireless LAN to a wired global network via an Access Point.



SOFTWARE INSTALLATION

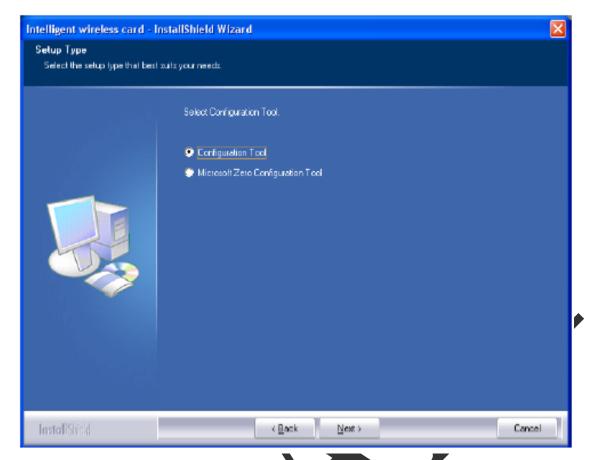
1. Exit all Windows programs. Insert the included CD-ROM into your computer. The CD-ROM will run automatically.

2. When the License Agreement screen appears, please read the contents and select "I accept the terms of the license agreement " then click Next to continue.



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

Click Next to continue.



4. There are two modes for you to choose in this screen, either choose WiFi mode or performance mode (TxBurst mode). This mode selection screen is set for the default mode shown in the utility screen, you can still change its mode later in the utility screen. Click Next to continue.

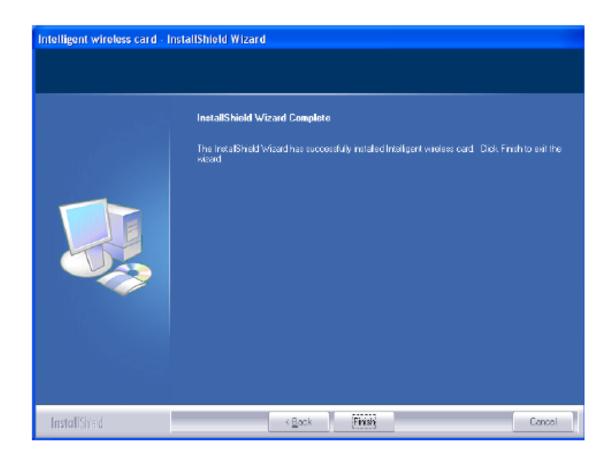


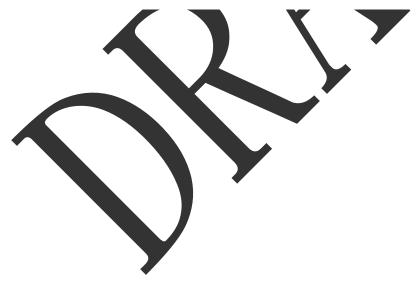
Intelligent wireless card - I	InstallShield Wizard	×
Setup Type Select the setup type that best	i suits your meeds.	
aliteta (j. j. j	Chaose Configuration Tx8 urst or WiFi	
	 Optimize for WFi mode Optimize for performance mode 	
InstallShield	< Back Next > C	lancel

5. When you are prompted the following message, please click Install to begin the installation.

Dick Install to begin the installation.
It you want to review or change any of your installation settings, click Back. Click Cancel to exit wizard

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

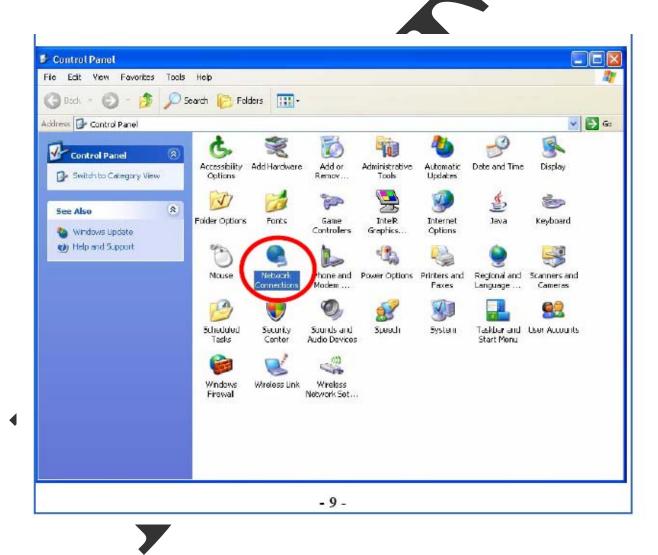




NETWORK CONNECTION

Once the device driver is well installed, a network setting described in the following should be also established.

- (In Windows 2000) Go to Start → Settings → Control Panel → Network and Dial-up Connections Local Area Connection → Properties.
- (In Windows XP) Go to Start → Control Panel → Network and Internet Connections → Network Connections → Wireless Network Connection → Properties.



2. Make sure that all the required components are installed.

上 Wireless Network Connection 3 Properties 👘 🛜 🔀	
General Advanced	
Corriect using	
11b/g/n 1T2R WLAN Mini Card Configure	
This connection uses the following items:	
Clent for Microsoft Networks	
🗹 📮 Wireless Intermediate Dri ver	
🗹 🚑 File and Printer Sharing for Microsoft Networks	
🗹 💻 OoS Packet Scheduler 🛛 💆	
<	
Install. Uninstall Properties	
Description	
Allows your computer to access resources on a Microsoft	
network.	
Show icon in notification area when connected	
Notily me when this connection has limited or no connectivity	
DK Cancel	

3. If any components are missing, click on the install... button to select the Client/Service/Protocol required. After selecting the component you need, click Add... to add it in.

Select Network Component Type 🛛 🛛 🔀
Click the type of network component you want to install:
Description A client provides access to computers and files on the network you are connecting to
Add Cancel

4. For making your computer visible on the network, make sure you have installed File and Printer Sharing for Microsoft Networks.

IP Address

Note: When assigning IP Addresses to the computers on the network, remember to have the IP address for each computer set on the same subnet mask. If your Broadband Router use DHCP technology, however, it won't be necessary for you to assign Static IP Address for your computer.

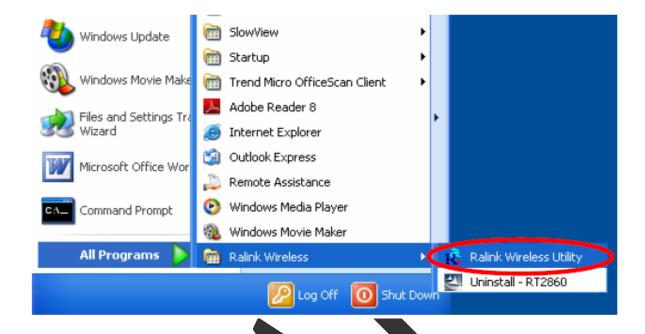
1. To configure a dynamic IP address (i.e. if your broadband Router has the DHCP technology), check the Obtain an IP Address Automatically option.

2. To configure a fixed IP address (if you broadband Router is not DHCP supported, or when you need to assign a static IP address), check the Use the following IP address option. Then, enter an IP address into the empty field; for example, enter 192.168.1.254 in the IP address field, and 255.255.255.0 for the Subnet Mask.

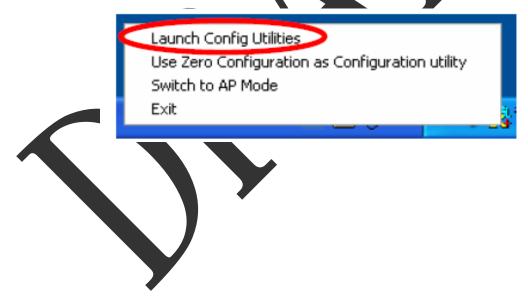
ternet Protocol (TCP/IP) Properties 🛛 🛛 🛛 🔀	Internet Protocol (TCP/IP) Properties
eneral Alternate Configuration	General
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.	You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically	Obtain and address automatically
O Use the totowing in address.	 Use the following IP address:
IP address:	P address: 192.168.1.254
Subnet mask:	Schweit mask: [255.255.255.0
Delauli gateway:	Delauli gateway:
Obtain DNS server address automatically	Obtain DNS server address automatically
O Use the following DNS server addresses:	O Use the following DNS server addresses:
Preferred DNS server:	Preferred DNS server:
Alternate DNS server:	Alternate DNS server:
Advanced .	Advanced .
OK Cancel	DK Cancel

CONFIGURATION UTILITY

After the Wireless adapter has been successfully installed, users can use the included Configuration Utility to set their preference. Go to Start \rightarrow (All) Programs \rightarrow Ralink Wireless \rightarrow Ralink Wireless Utility.



You can also open the Configuration Utility by double clicking the icon or right clicking to select Launch Config Utilities.



Intelligent Wireless Utility

Profile

Profile can book keeping your favorite wireless setting among your home, office, and other public hot-spot. You may save multiple profiles, and activate the correct one at your preference. The Profile manager enables you to Add, Edit, Delete and Activate profiles.

		-					0
P=		5	M	Gos	Ø		
Profile	Network	Advanced	Statistics	YWWM	WPS]
		Profile List					
					Profile Nar	ne >>	
					ss	ID >>	
					Network Ty	pe >>	
					Authenticati	on >>	
					Encryptik	on >>	
					Use 802.		
					Chann		
					Power Save Mo		
					10100.000		
					Tx Pow		
					RTS Threah		
					Fragment Thresh		
Add	Eatt	Dele	te Ac	stivate			
	Eait tus >> 802.11g-AP -			stivate	Fragment Thresh		> 100%
Sta		Wireless <> 00-		stivate	Fragment Thresh	ald >>	
Sta Extra l	tus >> 802.11g-AP -	Wireless <> 0D- Power: 100%		stivate	Fragment Thresho	old >> ink: Quality -	1 >> 47%
Sta Extra li Chan	tus >> 802.11g-AP - n1o >> Link is Up (T)	Wireless <> 0D- Power: 100%		xtivate	Fragment Thresho	ink:Quality>	1 >> 47% 2 >> 55%
Sta Extra li Chan Authenticat Encrypt	tus >> 802.11g-AP - nto >> Link is Up (T) nal >> 2 <> 2417 M Ian >> Unknown ian >> Nane	Wireless «> 004 Power: 100% M2		stivate	Fragment Thresho	nk Quality -> nel Strangth nel Strangth	1 >> 47% 2 >> 55% 3 >> 81%
Sta Extra I Chan Authenticat Encrypt Network Ty	tus >> 802.11g-AP - nfo >> Link 1s Up (7) nal >> 2 <> 2417 A tan >> Unknown ian >> Nane ype >> Infrastructu	Wireless <> 0D- Power:100%q Hz		stivate	Fragment Thresho	old >> ink Quality > nel Stri <mark>ngth</mark> nel Stringth	1 >> 47% 2 >> 55% 3 >> 81% 1 >> 26%
Sta Extra I Chan Authenticat Encrypt Network Ty IP Addr	tus >> 802.11g-AP - nto >> Link 1s Up (T) nal >> 2 <> 2417 M tan >> Unknown tan >> Nane ype >> Infrastructu ess >> 192.168.1.33	Wireless <> 00- Power: 100% HHz HC		xtivate	Fregment Thresho	nk Quality nal Strangth nal Strangth Dite Strangth	1 >> 47% 2 >> 55% 3 >> 81%
Sta Extra I Chan Authenticat Encrypt Network Ty IP Addr Sub Mi	tus >> 802.11g-AP - nto >> Link is Up (7) nel >> 2 <> 2417 A tan >> Unknown ian >> Nane ype >> Infrastructu ess >> 192.168.1.33 esk >> 255.255.255.	Wireless <> 00- Power: 100% HHz HC		xtivate	Fragment Thresho	ald >> nol Strangth nol Strangth also Strangth 1.0 Mbps	1 >> 47% 2 >> 55% 3 >> 81% 1 >> 26%
Sta Extra I Chan Authenticat Encrypt Network Ty IP Addr Sub Mi	tus >> 802.11g-AP - nto >> Link is Up [7) nal >> 2 <> 2417 A ian >> Uhknown ian >> Nane ype >> Infrastructu ess >> 192.168.1.33 esk >> 255.255.255.	Wirelass <> 0D- Power:100% Hiz rc p		xtivate	Fregment Thresho	ald >> nol Strangth nol Strangth also Strangth 1.0 Mbps	1 >> 47% 2 >> 55% 3 >> 81% 1 >> 25%
Sta Extra I Chan Authenticat Encrypt Network Ty IP Addr Sub Mi	tus >> 802.11g-AP - nto >> Link is Up (7) nel >> 2 <> 2417 A tan >> Unknown ian >> Nane ype >> Infrastructu ess >> 192.168.1.33 esk >> 255.255.255.	Wirelass <> 0D- Power:100% Hiz rc p		stivate	Fregment Thresho	nk Quality - nel Strength nel Strength nel Strength ateo Strength 4.0 Mbps COD Kbps	1 >> 47% 2 >> 55% 2 >> 81% 1 >> 25% Max 2.040 Kbps
Sta Extra I Chan Authenticat Encrypt Network Ty IP Addr	tus >> 802.11g-AP - nto >> Link is Up [7) nal >> 2 <> 2417 A ian >> Uhknown ian >> Nane ype >> Infrastructu ess >> 192.168.1.33 esk >> 255.255.255.	Wirelass <> 0D- Power:100% Hiz rc p	E0-98-83-88-02	stivate	Fregment Thresho	nic Quality > nai Strongth nai Strongth nai Strongth table Strongth t.0 Mbps COD Kbps	1 >> 47% 2 >> 55% 3 >> 81% 1 >> 26%
Sta Extra I Chan Authenticat Encrypt Network Ts IP Addr Sub M Cefault Gatew	tus >> 802.11g-AP - nto >> Link is Up [7) nal >> 2 <> 2417 A ian >> Uhknown ian >> Nane ype >> Infrastructu ess >> 192.168.1.33 esk >> 255.255.255.	Wirelass <> 00- Power:100% WH2 re ; D SNR0 >	E0-98-88-02	stivate	Fregment Thresho	nic Quality > nai Strongth nai Strongth nai Strongth table Strongth t.0 Mbps COD Kbps	1 >> 47% 2 >> 55% 2 >> 81% 1 >> 25% Max 2.040 Kbps

У

Profile Tab	
Profile Name	You may enter a distinctive name of profile in this column. The default is PROF# (# 1, #2, #3)
SSID	The SSID is the unique name shared among all points in your wireless network.
Network Type	Shows the network type of the device, including infrastructure.
Authentication	Shows the authentication mode.
Encryption	Shows the encryption type.
Use 802.1x	Whether or not use 802.1x feature.
Channel	Shows the selected channel that is currently in use. (There are 13 channels available, depending on the country.)
Power Save Mode	Choose from CAM (Constantly Awake Mode) or Power Saving Mode.
Tx Power	Transmit power, the amount of power used by a radio transceiver to send the signal out.
RTS Threshold	Shows the RTS Threshold of the device.
Fragment Threshold	Shows the Fragment Threshold of the device.
Add	Click to add a profile from the drop-down screen. System Configuration tab:

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

aUI Profile	Jee Network	Advanced) Statisti	cs	WN	W.	Ø WPS	C P R
ted by >>	🙆 SSID	۲	Channel		-	Signal	🔲 Show dBm	
					AP List			
802.11g-AP			111	69	•	100%		
aaa			43	P a	U	55%		
Albert Y-200			00	69	T	76%		
AP			101	69	9	55%		=
AP1			60	69		100%		
APPA			6	69	0	70%		
asus			11	Bg		B1%		
Broadcom			1011	69		B1%		
skl.			1011	69		76%		
TMB			100	60	•	34%		
Rescan	Connect	Add to	Profile					
Status	>> 802.11g-AP -Y	Mindless <->00	ED-98-88-88	H02			Link Quality >> 100%	
Extra Info	>> Link is Up ∏xi	Power:100%					Signal Strength 1 >> 50%	
	>> 2> 2417 MI	Hz					Signal Strongth 2 >> 50%	
Authentication							Signal Strength 3 >> 70%	
Encryption							Noise Strength >> 26%	
	Infrastructur	8					Transmit Halk Speed va. 54 0 Hiter Max	
	>> 255.255.255.0	1					Fills sheed as para wob?	
efault Gateway		-					Throughput >> 0.00D Kbps 7.480	
	HT -						Rapelive	
BW >⊁ n/a		SMRD>					Link Speed >> 1.0 Waps	
00000000	MCS >> n/a						Throughout >> 9.424 Khos	
GI >> nJa							1.770	

Network Tab						
Sorted by	Indicate that AP list are sorted by SSID, Channel or Signal.					
Show dBm	Check the box to show the dBm of the AP list.					
SSID	Shows the name of BSS network.					
Network Type	Network type in use, Infrastructure for BSS.					
Channel	Shows the currently used channel.					
Wireless mode	AP support wireless mode. It may support 802.11a, 802.11b, 802.11g or 802.11n wireless mode.					
	7					

Encryption	Shows the encryption type currently in use. Valid value includes WEP, TKIP, AES, and Not Use.					
Signal	Shows the receiving signal strength of specified network.					
Rescan	Click to refresh the AP list.					
Connect	Select an item on the list and then click to make a connection.					
Add to Profile	Select an item on the list and then click to add it into the profile list.					
Link status	Status >> 802, 11g,44 - Witteless +=>00 ED-98-88-88-02 Extra Guidty >> 1004 Extra Info >> Link IS Up (Different 1008) Right Stangth 1 >> 4004 Channel >> 1 -=> 24417 Mile Right Stangth 1 >> 4004 Authentication >> Encryption >> Bone Right Stangth 1 >> 4004 Network Type >> Infractructure Right Stangth 1 >> 4004 IP Authent >> 100, Status 2005 Extra Special Authors Sub Mark >> 1005, Status 2005 Extra Special Authors IP Authent >> 100, Status 2005 Extra Special Authors IP Authors >> 1005, Status 2005 Extra Special Authors IP Authors >> 1005, Status 2005 Extra Special Authors IP Authors >> 1005, Status 2005 Extra Special Authors IP Authors >> 1005, Status 2005 Extra Special Authors IP Authors >> 1005, Status 2005 Extra Special Authors IP Authors >> 1005, Status 2005 Extra Special Authors IP Authors >> 1005, Status 2005 Extra Special Authors IP Authors >> 100, Status 2005 Throughput >> 0.404 Miles IP Authors >> 100, Status 2005 Extra Special Authors IP Authors >> 100, Status 2005 Extra Special Authors IP Authors >> 100, Status 2005 Extra Special Authors IP Authors >> 100, Status 2005 Extra Special Authors IP Authors >> 100, Status 2005 Extra Special Authors					
Status	Shows the current connection status. If there is no connection existing, it will show Disconnected.					
Extra Info	Shows the link status.					
Channel	Shows the current channel in use.					
Authentication	Authentication mode used within the network, including Unknown, WPA-PSK, WPA2-PSK, WPA and WPA2.					
Encryption	Shows the encryption type currently in use. Valid value includes WEP, TKIP, AES, and Not Use.					
Network Type	Network type in use, Infrastructure for BSS.					
IP Address	Shows the IP address information.					
Sub Mask	Shows the Sub Mask information.					
Default Gateway	Shows the default gateway information.					
Link Quality	Shows the connection quality based on signal strength and					

	TX/RX packet error rate.
Signal Strength 1, 2 and 3	Shows the Receiving signal strength, you can choose to display as percentage or dBm format.
Noise Strength	Shows the noise signal strength.
Transmit	Shows the current Link Speed and Throughput of the transmit rate.
Receive	Shows the current Link Speed and Throughput of receive rate.
Link Speed	Shows the current transmitting rate and receiving rate.
Throughput	Shows the transmitting and receiving throughput in the unit of K bits/sec.

AP information

When you double click on the intended AP, you can see AP's detail information that divides into three parts. They are General, WPS, CCX information. The introduction is as following:

General	General WPS CCX SSID >> 402,11g-wP -Wireless	
	MAC Address >> 00-E0-90-00-02	Signal Strength >> 60%
	Authentication Type >> Unknown	Supported Ratec (Nbpc)
	Encryption Type >> None	1, 2, 5, 5, 11, 6, 9, 12, 13, 24, 36, 48, 54
	Channel >> 2 ↔ 2417 WHz	
	Network Type >> Infrastructure	
	Beacon Interval >> 100	
	-	ок

WPS		
	General WPS	ccx
	Authentication Type >> Unknown	State >> Unknown
	Encryption Type >> None	Version >> Unknown
	Config Methods >> Linknown	AP Setup Locked >> Linknown
	Bevice Password ID >>	UUIDE >> Unknown
	Selected Registrer >> Unknown	Pf Banda >> Unknown
		OK
	Config Methods, Device	s Authentication Type, Encryption Type, Password ID, Selected Registrar, State, d, UUID-E and RF Bands.
		There are four types of authentication onfig. They are open, Shared, WPA-PSK
	selection of encryption	pen and shared authentication mode, the type are None and WEP. For WPA, WPA2-PSK authentication mode, the both TKIP and AES.
	Config Methods : Corres an Enrollee for adding ex	pond to the methods the AP supports as ternal Registrars.
		Indicate the method or identifies the selected Registrar intends to use.
	Ŭ	cate if the user has recently activated a nrollee. The values are "TRUE" and
	State: The current conf "Unconfigured" and "Con-	iguration state on AP. The values are nfigured".
	Version: WPS specified	version.
		ate if AP has entered a setup locked state.
	UUID-E : The universa generated by the Enrollee	lly unique identifier (UUID) element . There is a value. It is 16 bytes.
		l RF bands available on the AP. A vide it. The values are "2.4GHz" and
	OK: Click this button to	exit the information screen.

CXX	
	General WPS CCX
	COVM >> FALSE
	Cnic >> FaLSE
	Otp >> F#LSE
	CCX information contains CCKM, Cmic and Ckip information.
	OK : Click this button to exit the information screen.

Advanced

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



RaUI						
Profile	LLL Network	Advanced) Statistics	With	Ø WPS	Ø
Wireless made >>	802, 11 B	/G/N mtx	•	Enable OCX (Cisco	Compatible eXtensions)	
			0	Turn on CCKM		
			E	Eneble Radio M	easurements	
Enable TX B	urst			Non-Servi	ng Chennel Ne as urements limit	2.50 ms (0-2000)
Enable TCP	Window Size					
Fast Roomin	gat -70 dBm					
	ntication Status I	Dialog				
Show wuone	nucation status i					
-						
-	st Your Country 0: CH1-11		•			
Scie It B/G >> Apply	st Your Country 0: CH1-11	Region Code	_			
Solo 11 B/G >> Apply Stets	st Your Country 0: CH1-11 s >> 802.11g-AP	-Wireless -> 0	0-60-90-08-68-02		Link Quality Con al Chart II	
Solo 11 B/G >> Apply State Extro In	st Your Country 0: CH1-11	-Wireless -> 0 [xPower:1008]	_		Signal Strengt	
Sele H B/G >> Apply State Extra In Chan	st Your Country 0: CH1-11 s >> 802,11g-AP ia >> Link is Up	-Wireless -> 0 [xPower:1008]	_		Signal Strengt	h 1 >> 51% h 2 >> 51%
Sele If B/G >> Apply State Extra In Chan Authenticatik	st Your Country 0: CH1-11 s >> 802,11g-AP io >> Link is Up [st >> 2 ~~ 2 ~17	-Wireless -> 0 [xPower:1008]	_		Signal Strengt Signal Strengt	n 1 >> 51% h 2 >> 51% h 3 >> 70%
Sele If B/G >> Apply State Extra In Chan Authenticatic Encryptic	st Your Country 0: CH1-11 s >> 802,11g-AP is >> 10: Link is Up () et <> 2 <> 2-117 ci >> Unknown	-Wireless -> 0 [xPower:1003] MH2	_		Signal Streng U Signal Streng U Signal Streng U	n 1 >> 51% h 2 >> 51% h 3 >> 70%
Sele Sele MB/G >> Apply State Extra In Chan Authenticatic Encryptic Network Typ IP Addres	st Your Country 0: CH1-11 s >> 802,11g-AP o >> Link is Up [et ~> 2 <> 2417 n >> Unknown n >> None et >> Infrastruct es >> 192,168,1.3	-Wireless>0 [xPower:1003] MH2 LITE	_		Signal Streng U Signal Streng U Signal Streng U Noise Streng	n 1 >> 51% h 2 >> 51% h 3 >> 70%
Sele Sele M B/G >> Apply State Extro In Chain Authenticatik Encryptik Network Typ IP Addre Sub Wat	st Your Country 0: CH1-11 s >> 802,11g-AP b >> Link is Up [] s >> Link is Up []	-Wireless>0 [xPower:1003] MH2 LITE	_		Steinel Strengt Steinet Steinet Noise Strengt Noise Strengt	h 1 >> 51% h 2 >> 51% h 3 >> 70% h >> 26%
Sele Sele MB/G >> Apply State Extra In Chan Authenticatic Encryptic Network Typ IP Addres	st Your Country 0: CH1-11 s >> 802.11g-AP b >> Link is Up [] s >> Link is Up []	-Wireless> 0 IxPower:100% MH2 ure I:3 5.0	_		Statual Strens, th Statual Strens, th Statual Strens, th Noise Strens, th Instruction Link Speed >> 54.0 Wbps	h 1 >> 51% h 2 >> 51% h 3 >> 70% h >> 20%
Sele Sele M B/G >> Apply State Extro In Chain Authenticatik Encryptik Network Typ IP Addre Sub Wat	st Your Country 0: CH1-11 s >> 802,11g-AP b >> Link is Up [] s >> Link is Up []	-Wireless> 0 IxPower:100% MH2 ure I:3 5.0	_		Statual Strens, th Statual Strens, th Statual Strens, th Noise Strens, th Instruction Link Speed >> 54.0 Wbps	h 1 >> 51% h 2 >> 60% d >> 70% d >> 26% Max D. 160 Kops
Sele Sele M B/G >> Apply State Extro In Chain Authenticatik Encryptik Network Typ IP Addre Sub Wat	st Your Country 0: CH1-11 s >> 802.11g-AP b >> Link is Up [] s >> Link is Up []	-Wireless> 0 [xPower:1008] MH2 ure 13 5.0	_		Signal Streng ti Signal Streng ti Noise Streng ti Pransmit Link Speed >> 54.0 Wbps Throughput >> 0.000 Kbps	h 1 >> 51% h 2 >> 51% h 3 >> 70% h >> 26% Max D. 160

Advanced Tab			
Wireless mode	Select wireless mode. There are 802.11b/g/n mixed, 802.11b only and 802.11b/g mixed modes are supported. Default mode is 802.11b/g/n mixed.		
Enable Tx Burst	Check to enable the burst mode.		
Enable TCP Window Size	Check to increase the transmission quality.		
Fast Roaming at	Check to set the roaming interval, fast to roaming, setup by transmits power.		
Show	When you connect AP with authentication, choose		

Authentication Status Dialog	whether show "Authentication Status Dialog" or not. Authentication Status Dialog displays the process about 802.1x authentications.
Select Your Country Region Code	Select your country region code from the pull-down menu.
Enable CCX (Cisco Compatible extensions)	 Check to enable the CCX function. Turn on CCKM Enable Radio Measurements: Check to enable the Radio measurement function. Non-Serving Measurements limit: User can set channel measurement every 0~2000 milliseconds. Default is set to 250 milliseconds.
Apply	Click to apply above settings.

Statistics

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



Profile 1	Vetwork	Advanced) Statistics	www.	Ø WPS	*
Transmit		lecetve				
Frames Tran	namitted Success	fully				450
Frames Retr	ansmitted Succe	ostuly				39
Frames Fail	To Receive ACK A	ater All Retries				0
RTS Frames	Successfully Rece	awa CTS				0
RTS Frames	Fall To Receive C	.15		2		0
Reset Counter						
	>> 802.11g-AP ->	Wireless > 00	-20-50-88-68-02		LPAKSZORIUS	100N
Status			-ED-50-08-08-02			•••• 100N ⊅ 1 ו• 49%
Status Extra Info	>> 802.11g-4P -1	Power:1009g	-00-90-08-08-02			n 1 ×* 49%
Status Extra Info	>> 802.11g-AP -> >> Link is Up (Tx >> 2 <> 2417 M	Power:1009g	-E0-50-08-08-02		Stand Strongs	n 1 ×+ 49% 2 >> 55%
Status Extra Info Channel Authentication Encryption	>> 802.11g-4P -) >> Link is Up (Tx >> 2 <> 2417 M >> Uhknown >> None	Power:1009) Hz	E0-50-00-00-02		Shanai Stree <mark>e</mark> Sharai Stree e	n 1 >> 49% 2 >> 55% n 3 >> 72%
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Transmit			
Frames Transmitted Successfully	Shows information of frames successfully sent.		
Frames Retransmitted Successfully	Shows information of frames successfully sent with one or more reties.		
Frames Fail To Receive ACK After All Retries	Shows information of frames failed transmit after hitting retry limit.		
RTS Frames Successfully Receive CTS	Shows information of successfully receive CTS after sending RTS frame		

RTS Frames Fail To Receive CTS	Shows information of failed to receive CTS after sending RTS.
Reset Counter	Click this button to reset counters to zero.

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Profile Ne	للله { twork Adv	anced) Statistics	ALL	Ø WPS			😗 💡 R
Transmit	Rece	ive						
Frames Pacety	ed Successfully						16	
Frames Receiv	ed With CRC Error						758	
Frames Droppa	ed Due To Out-of-Ri	esource					0	
Duplicate Fran	nes Received						0	
Rexet Counter								
Status >>	802.11g-AP -Wirds	ess ≪~⊁00	-E0-58-68-68-02			Link Quality >>	100%	
Extra Info >>	Link is Up (TxPowe	ar:100%]				Signal Strength 1	>> 55%	
	Channel >> 2 <> 2417 MHz					Signal Strength Z		
Authentication >>						Signal Strength 3		
Encryption >> Network Type >>						Noise Strength	>> 26%	
	192,168,1.00				Transmit		Max	
100000000000000000000000000000000000000	255,255,255,0					>> 54.0 Mbps >> 0.000 Kbps		
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	HT				Receive		ALL N	
BW ≥> n/a		SNPO :	⊳ n/a		Link Speed	>> 1.0 Mbps	Max	
	WCS ≫ n/a	SNR1)	⇒n/a		Throughput	>> 9.424 Kbps	9.920 Kaps	

Receive Statistics	
Frames Received Successfully	Shows information of frames Received Successfully.
Frames Received With CRC Error	Shows information of frames received with

	CRC error.
Frames Dropped Due To Out-of-Resource	Shows information of frames dropped due to resource issue.
Duplicate Frames Received	Shows information of duplicate received frames.
Reset Counter	Click this button to reset counters to zero.

WMM / QoS

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

Image: Status Image: Status<	RaUI						
WMM Setup Status Direct Link >> Disabled Direct Link >> Disabled WMM Protein ACL9K ACL9E ACL9U ACL9C Direct Link Setup Enable ACL9K ACL9E ACL9U ACL9C Direct Link Setup Enable ACL9K ACL9E ACL9U ACL9C Direct Link Setup Enable ACL9K ACL9E ACL9C ACL9C Direct Link Setup Enable ACL9E ACL9C ACL9C ACL9C Status >> 0002.11g-AP -Wirreless <=>00-CD=00-00-00-00 Active Active Active Active Status >> 0002.11g-AP -Wirreless <=>00-CD=00-00-00-00-00 Active Active Active Active Status >> 0002.11g-AP -Wirreless <=>00-CD=00-00-00-00-00-00 Active Active Active Active Status >> 0002.11g-AP -Wirreless <=>00-CD=00-00-00-00-00-00-00-00-00-00-00-00-00-		خصك	, P		005	Ø	0
WWW >> Enabled Power Save >> Disabled Direct Link >> Disabled WWW Enable	Profile	Network	Advanced	Statistics	NAMAN	Mb2	
WWW Enable WWW - Power Save Enable AC, 3K AC, 3E Direct Link Setup Enable AAC, 8K AC, 3E Status >> 002, 119-AP - Wireless <-> 000-ED - 90-6D - 6D	WMM Setu	ip Status					
Image: Status >> 0002.11g+0P -Wireless <>> 00-ED-90-00-020-02. Status >> 0002.11g+0P -Wireless <>> 00-ED-90-00-020-02. Extra Info >> Link is Up [TxPower:1008] Channel >> 2 <>> 2417 MHz Authentication >> Unknown Encryption >> None Network Type >> Infrastructures IP Address >> 192.165.1.33 Sub Matk >> 255.255.255.0 wefault Gateway >> MT BW >> n/a SNB1 >> n/a BW >> n/a SNB1 >> n/a NCS >> n/a SNB1 >> n/a		WMM >> Enabled	Ромен	r Save >> Disabled			Direct Link ++ Disabled
AC.3K AC.3F AC.VI AC.VO Direct Link Setup Enable AAC.47 AC.170 AC.170 AAC.47 Timeout V4109 >> 68 Acctv TeerDown Status >> 000,111g-AP -Wireless <~>00-ED-90-00-00-02 Extra Info >> Acctv TeerDown Status >> 000,111g-AP -Wireless <~>00-ED-90-00-00-02 Signal Status gth 1 >> Acctv TeerDown Status >> 000,111g-AP -Wireless <<>>00-ED-90-00-00-02 Signal Status gth 1 >> Acctv TeerDown Status >> 000,111g-AP -Wireless <<>>00-ED-90-00-00-02 Signal Status gth 1 >> Acctv TeerDown Status >> 000,111g-AP -Wireless <<>>>00-ED-90-00-00-02 Signal Status gth 1 >> Signal Status gth 1 >> Acctv Status >> 000,111g-AP -Wireless <<>>>00-ED-90-00-00-00-02 Signal Status gth 1 >> Signal Status gth 1 >> Acctv Status >> 00,2 Signal Status gth 1 >> Signal Status gth 1 >> Signal Status gth 1 >> Acctv Active Strength >> 2417 Mit Signal Status gth 1 >> Signal Status gth 1 >> Signal Status gth 1 >> Network Type >> Infrastructures Infrastructures Signal Status gth 1 >> Signal Status gth 1 >> Mit Mit Speed >> 10.00 </td <td></td> <td>WWW Enable</td> <td></td> <td></td> <td></td> <td></td> <td></td>		WWW Enable					
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4.420 V.420		H1	r			Receive	
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		1/8	SNRD			Link Speed >> 1.0 Mbps	
		1/8	SNRD			Link Speed >> 1.0 Mbps	9.920

WMM Enable	Check the box to enable Wi-Fi Multi-Media
	function.
WMM- Power Save Enable	Select which ACs you want to enable.
Direct Link Setup Enable	Check the box to enable Direct Link Setup.
MAC Address	The setting of DLS indicates as follow :
	Fill in the blanks of Direct Link with MAC Address of STA, and the STA must conform to two conditions:
	 Connecting with the same AP that supports DLS feature.
	 DSL enabled.
Timeout Value	Timeout Value represents that it disconnect automatically after few seconds. The value is integer that must be between 0~65535. It represents that it always connects if the value is zero. Default value of Timeout Value is 60 seconds.
Apply	Click this button to apply the settings.
Tear Down	Select a direct link STA, then click "Tear Down" button to disconnect the STA.

WPS

The primary goal of Wi-Fi Protected Setup (Wi-Fi Simple Configuration) is to simplify the security setup and management of Wi-Fi networks. The STA as an Enrollee or external Registrar supports the configuration setup using PIN (Personal Identification Number) configuration method or PBC (Push Button Configuration) method through an internal or external Registrar.

Radio On/Off

Network



Click this icon to turn on radio function.

Statistics

6

Advanced



Click this icon to turn off radio function.

About



WIWA

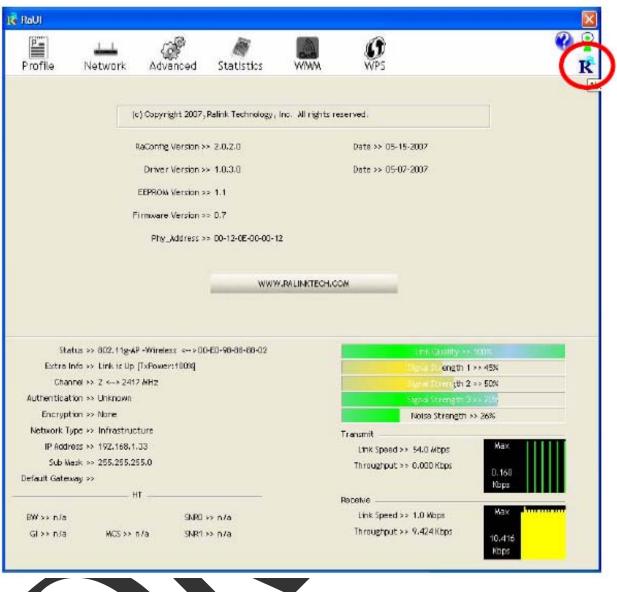
Ø WPS

R Click this button to show the information of the wireless card including,

RaConfig Version/ Date, Driver Version/ Date, EEPROM Version, Firmware

Version and Phy_Address.



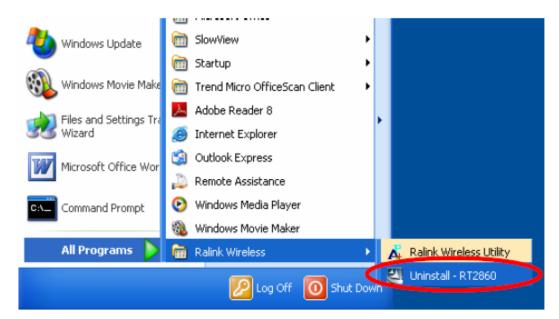


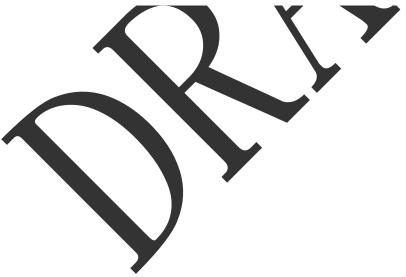


UNINSTALLATION

In case you need to uninstall the utility and driver, please refer to below steps. (As you uninstall the utility, the driver will be uninstalled as well.)

1. Go to Start \rightarrow Programs \rightarrow Ralink Wireless \rightarrow Uninstall.





2.	Select Remove al	button and	click Next to	start uninstalling.
----	------------------	------------	---------------	---------------------

Intelligent wireless card - I	InstallShield Wizard	×
Please selectione way to c	onlinue install.	
	There have existed an older version. Which way do you like to do? Image: There have existed an older version. Image: There have existed an older version. Image: There have existed an older version install without remove.	
Install Shield	<back next=""> Can</back>	cel

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



4. Select "Yes, I want to restart my computer now" and then click Finish to complete the uninstallation.

InstallShield Wizard has finished uninstalling Intelligent wireless card.	
No, I will restart my computer later. Remove any disks from their chives, and then click Finish to complete setup.	
InstallSited < Back Firish	

Regulatory statement

Federal Communication Commission Interference Statement

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

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

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

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

IMPORTANT NOTE:

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

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

This device is intended only for OEM integrators under the following conditions:

- 1) The antenna must be installed such that 20 cm is maintained between the antenna and users, and
- 2) The transmitter module may not be co-located with any other transmitter or antenna,

3) For all products market in US, OEM has to limit the operation channels in CH1 to CH11 for 2.4G band by supplied firmware programming tool. OEM shall not supply any tool or info to the end-user regarding to Regulatory Domain change.

As long as 3 conditions above are met, further transmitter test will not be required. However, the OEM integrator is still responsible for testing their end-product for any additional compliance requirements required with this module installed (for example, digital device emissions, PC peripheral requirements, etc.).

IMPORTANT NOTE: In the event that these conditions <u>can not be met</u> (for example certain laptop configurations or co-location with another transmitter), then the FCC authorization is no longer considered valid and the FCC ID <u>can not</u> be used on the final product. In these circumstances, the OEM integrator will be responsible for re-evaluating the end product (including the transmitter) and obtaining a separate FCC authorization.

End Product Labeling

This transmitter module is authorized only for use in device where the antenna may be installed such that 20 cm may be maintained between the antenna and users. The final end product must be labeled in a visible area with the following: "Contains FCC ID: EJE-WL0025".

Manual Information To the End User

The OEM integrator has to be aware not to provide information to the end user regarding how to install or

remove this RF module in the user's manual of the end product which integrates this module.

The end user manual shall include all required regulatory information/warning as show in this manual.

This device is restricted to indoor use when operated in the 5.15 to 5.25 GHz frequency range.

Industry Canada Statement

This device complies with Industry Canada licence-exempt RSS standard(s). 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. This device is restricted to indoor use when operated in the 5.15 to 5.25 GHz frequency range.

This device has been designed to operate with an antenna having a maximum gain of 4.67dBi for 2.4GHz and 5.1dBi for 5GHz.

Antenna having a higher gain is strictly prohibited per regulations of Industry Canada. The required antenna impedance is 50 ohms.

To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the EIRP is not more than required for successful communication.

IMPORTANT NOTE:

IC Radiation Exposure Statement:

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

This device is intended only for OEM integrators under the following conditions:

- 1. The antenna must be installed such that 20 cm is maintained between the antenna and users, and
- 2. The transmitter module may not be co-located with any other transmitter or antenna,
- 3. For all products market in CANADA, OEM has to limit the operation channels in CH1 to CH11 for 2.4GHz band by supplied firmware programming tool. OEM shall not supply any tool or info to the end-user regarding to Regulatory Domain change

As long as 3 conditions above are met, further transmitter test will not be required. However, the OEM integrator is still responsible for testing their end-product for any additional compliance requirements required with this module installed (for example, digital device emissions, PC peripheral requirements, etc.).

IMPORTANT NOTE: In the event that these conditions can not be met (for example certain laptop configurations or co-location with another transmitter), then the IC authorization is no longer considered valid and the IC ID can not be used on the final product. In these circumstances, the OEM integrator will be responsible for re-evaluating the end product (including the transmitter) and obtaining a separate IC authorization.

End Product Labeling

The final end product must be labeled in a visible area with the following: "Contains IC : 337J-WL0025".

Manual Information That Must be Included

The OEM integrator has to be aware not to provide information to the end user regarding how to install or remove this RF module in the user's manual of the end product which integrates this module. The end user manual shall include all required regulatory information/warning as show in this manual.



NCC Statement

以下警語適用台灣地區

經型式認證合格之低功率射頻電機,非經許可,公司、商號或使用者均不得擅自變更頻率、加大功率或變更原

設計之特性及功能。

低功率射頻電機之使用不得影響飛航安全及干擾合法通信;經發現有干擾現象時,應立即停用,並改善至無干

擾時方得繼續使用。前項合法通信,指依電信法規定作業之無線電通信。低以率射頻電機須忍受合法通信或工

業、科學及醫療用電波輻射性電機設備之干擾。

本模組於取得認證後將依規定於模組本體標示審合格資、並要求平台上標示「本產品內含射頻模組:ID編號」