

802.11b/g/n 1T1R Combo Card

RT3290

User's Manual

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.

IMPORTANT NOTE:

if the EUT does not fulfill the listed requirements:

The transmitter module may not be co-located with any other transmitter or antenna.

As long as conduction above is 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.). This equipment should be installed such way that the transmit antenna connected should maintain minimum 2.5cm distance to the users. SAR measurement to the end product is required, if the EUT does not fulfill the listed requirements:

- portable Laptop/Notebook/Netbook and Tablet Computer configurations
- minimum separation distance of at least 2.5 cm between radiating structures and the user

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: VQF-RT3290".

Manual Information To the End User

The OEM 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.

The maximum allowed ambient temperature of the device is 40 degrees Celsius.

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

This device has been designed to operate with an antenna having a maximum gain of 3.7dBi. 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.

IMPORTANT NOTE:

if the EUT does not fulfill the listed requirements:

The transmitter module may not be co-located with any other transmitter or antenna.

As long as conduction above is 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.). This equipment should be installed such way that the transmit antenna connected should maintain minimum 2.5cm distance to the users. SAR measurement to the end product is required, if the EUT does not fulfill the listed requirements:

- portable Laptop/Notebook/Netbook and Tablet Computer configurations
- minimum separation distance of at least 2.5 cm between radiating structures and the user

End Product Labeling

The final end product must be labeled in a visible area with the following: "Contains TX IC : 7542A-RT3290".

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.

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。

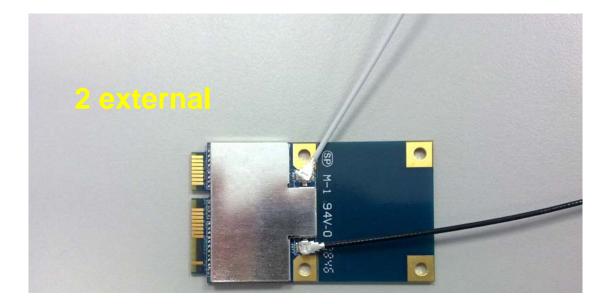
低功率射頻電機之使用不得影響飛航安全及干擾合法通信;經發現有干擾現象時,應立即停用,並改善至無干 擾時方得繼續使用。前項合法通信,指依電信法規定作業之無線電通信。低功率射頻電機須忍受合法通信或工 業、科學及醫療用電波輻射性電機設備之干擾。

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

Hardware Quick Installation Guide

Installing the Wireless Mini PCI Express Module

- 1. Power down the computer.
- 2. Plug the Wireless PCI Express Minicard Module board to motherboard minicard slot
- 3. Connect 2 external antennas used I-PEX connector for WiFi antenna.
- 4. Power on the computer.



Un-installing the Wireless Mini PCI Express Module

- 1. Power down the computer
- 2. Removed 2 external WiFi antennas from the Wireless Mini PCI Express Module
- 3. Carefully removed the Wireless PCI Express Minicard Module from the motherboard minicard slot.
- 4. Power on the computer.

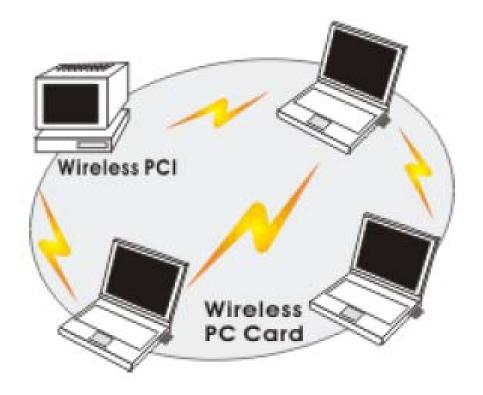
INTRODUCTION

The 11b/g/n 1T1R WLAN Mini Card 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.

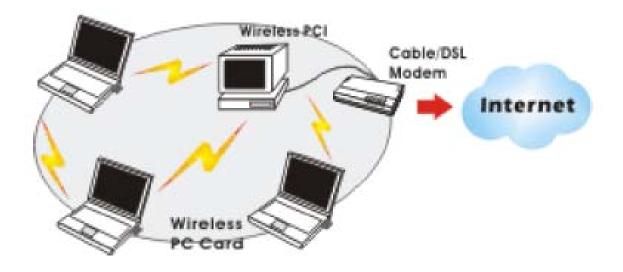
Wireless Network Options

The Peer-to-Peer Network

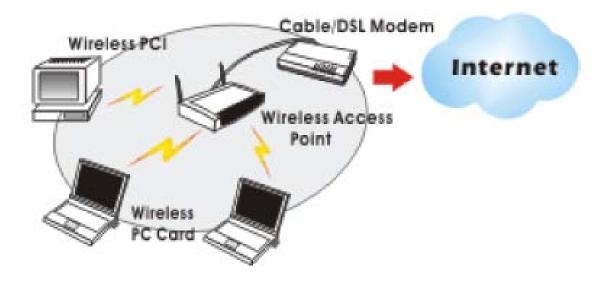
This network installation lets you set a small wireless workgroup easily and quickly. Equipped with wireless PC Cards or wireless PCI, you can share files and printers between each PC and laptop.



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

Install the device

1. Make sure the computer is turned off. Remove the expansion slot cover from the computer.

2. Carefully slide the 11b/g/n 1T1R WLAN Mini Card into the mini PCI slot. Push evenly and slowly and ensure it is properly seated.

3. After the device has been connected to your computer, turn on your computer. Windows will detect the new hardware and then automatically copy all of the files needed for networking.

Install the Driver & Utility

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.

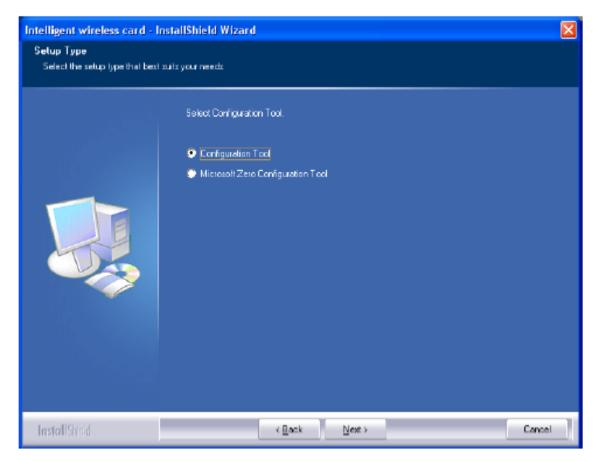
Intelligent wireless card	InstallShield Wizard	
License Agreement Please read the following lice	nse agreement carefully.	
	Therk you for purchasing Wireless product! SDFTWARE PRODUCT LICENSE The SDFTWARE PRODUCT LICENSE The SDFTWARE PRODUCT is protected by copyright laws and international copyright basics, as well as other intellectual property laws and treaties. The SDFTWARE PRODUCT is licensed, not sold. 1. GRANT DF LICENSE. This End-User License Agreement grants you the following rights installation and Use. You may reproduce and distribute an unlimited number of copies of the SDFTWARE PRODUCT: provided that each copy shall be a true and complete copy, including all copyright and trademark notices, and shall be accompanied by a copy of this EULA Copies of the SDFTWARE PRODUCT: provided that each copy shall be a true and complete copy, including all copyright and trademark notices, and shall be accompanied by a copy of this EULA Copies of the SDFTWARE PRODUCT may be distributed as a standalone product copy including all copyright and trademark notices. The succept the sone of the SDFTWARE PRODUCT may be distributed as a standalone product copy including all copyright and trademark notices. The succept the sone of the SDFTWARE PRODUCT may be distributed as a standalone product copy included with your own product. 2. DESCRIPTION OF DTHER RIGHTS AND LIMITATIONS. Concernent to the SDFTWARE produce and the license agreement copy included with your own product. 3. DESCRIPTION OF DTHER RIGHTS AND LIMITATIONS. 3. DESCRIPTION OF DTHER RIGHTS AND LIMITATIONS. 3. DESCRIPTION of the license agreement Concernent to the sone of the license agreement Concernent Con	
InstallSiteld	CBeck Next > Ceno	-

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 Tool: Choose to use Windows XP's built-in Zero Configuration Utility (ZCU).

Click Next to continue.



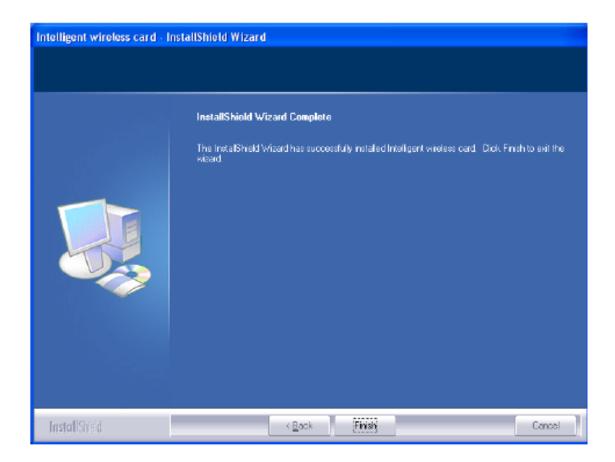
4. There are two modes for you to choose in this screen, either choose WiFi mode or performance mode (TxBurst mode). This mode selection screen is set for the default mode shown in the utility screen, you can still change its mode later in the utility screen. Click Next to continue.

Intelligent wireless card -	InstallShield Wizard	×
Setup Type Select the setup type that bes	st quita your needa.	
in a second	Chaose Contiguration TxBurst or WiFi	
	Optimize for WFi mode	
	💭 🛛 plimize lor performance mode	
InstallShield	< Back Next > Can	zəl 🛛

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

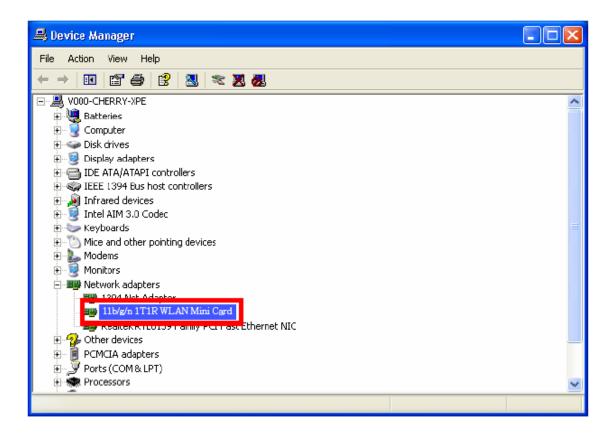
Intelligent wireless card - Ins	tallShield Wizard	\mathbf{X}
Ready to Install the Program The wizerd is ready to begin insta	lation	
	Dick Install to begin the installation.	
	It you want to review of change any of your installation settings, click Back. Click Cancel to exit if wizard	

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



HARDWARE INSTALLATION

To verify if the device exists in your computer and is enabled, go to Start > Control Panel > System (> Hardware) > Device Manager. Expand the Network Adapters category. If the 11b/g/n 1T1R WLAN Half Mini Cardis listed here, it means that your device is properly installed and enabled.



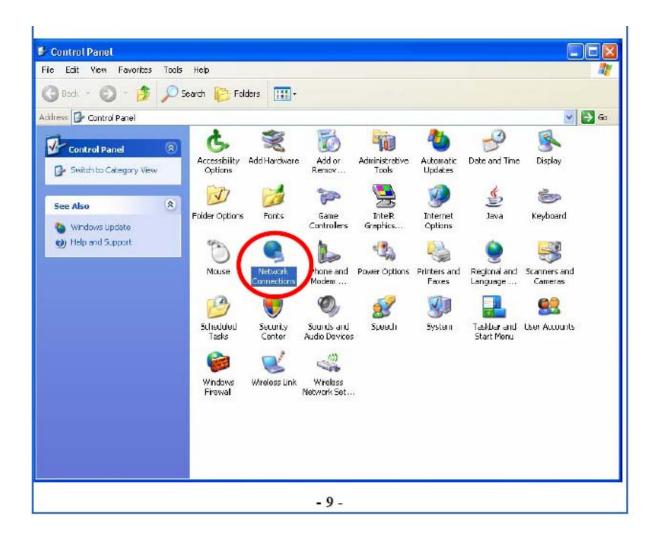
NETWORK CONNECTION

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

In Windows 2000/ XP

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

(In Windows XP) Go to Start \rightarrow Control Panel \rightarrow Network and Internet Connections \rightarrow Network Connections \rightarrow Wireless Network Connection \rightarrow Properties.



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

🕹 Wireless Network Connection 3 Properties 👘 🕜 🔀
General Advanced
Cornect using
📑 11b/g/n 1T2R WLAN Mini Card Configure
This connection uses the following items:
Clent for Microsoft Networks Wireless Intermediate Driver Wireless Intermediate Driver File and Printer Sharing for Microsoft Networks Ø 005 Packet Scheduler Install. Uninstall Properties Description Allows your computer to access resources on a Microsoft
Notily me when this connection has limited or no connectivity

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 instal:
Ellent
3 Protocol
Description
A client provides access to computers and files on
the network you are connecting to
\frown
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.

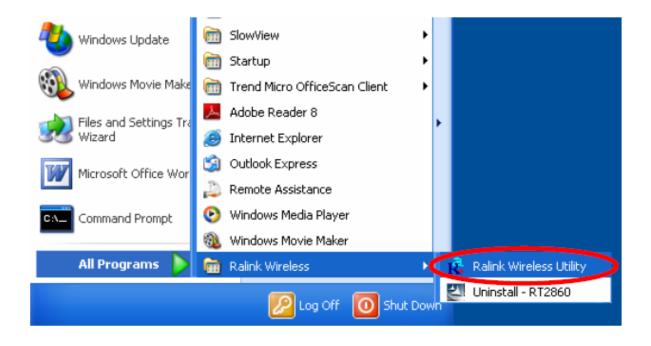
1. To configure a dynamic IP address (i.e. if your broadband Router has the DHCP technology), check the Obtain an IP Address Automatically option.

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.

Internet Protocol (TCP/IP) Properties	Internet Protocol (TCP/IP) Properties 🛛 🛛 🛛
General Altamate 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 the address automatically
O Use menorowing in address.	 Use the following IP address:
IP address:	IP addiecs: 192.168.1.254
Subnet mask:	Solvestmask [255.255.255.0
Default gateway:	Delault gateway:
Obtain DNS server address automatically	Obtain DNS server address automatically
O Use the following DNS server addresses:	Output the following DNS server addresses:
Preferred DNS server:	Preferred DNS server:
Alternate DNS server:	Alienste DNS server:
Advanced .	Advanced
OK Cancel	OK 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.

Launch Config Utilities
Use Zero Configuration as Configuration utility
Switch to AP Mode
Exit
a

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.

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Profile	Network J	کړي Advanced	Statistics	NAM.	WPS	•
	Р	rafile List				
					Profile Name >>	
					<< 0.122	
					Network Type >>	
					Authentication >>	
					Encryption >>	
					Use 802.1x >>	
					Channel >>	
					Power Save Mode >>	
					Tx Power >>	
					RTS Threshold >>	
	¥.	1			Fragment Threshold >>	
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Statu Extra Infe Channe Authentication	s >> 802.11g-AP -W o >> Link is Up (TXP al >> 2 <> 2417 MH n >> Uhknown	lireless <> 0D lower: 100%		otivate	Fragment Threshold >> Link Quality > Signal Strength Signal Strength	1 >> 47% 2 >> 55% 3 >> 81%
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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.

Profile 1	Network /	Advanced) Statisti	cs	WN		Ø WPS			1
rted by >>	🙆 SSID	۲	Channel			Signa	L.		Show dBm	
802.11g-AP			B11	B 9	P List	100%				
aaa			43	69	•	55%	_			
Albert'Y-200			00	B9	•	76%	_		_	
AP			61	<u>B</u> 9		55%	_			
AP1			100	B g	1	100%	-			-
APPA			6			70%			_	
asus			11	b g	W	B1%				
Broadcom			1011	_		B1%	_			
ski			11	69		76%	_			
SKI TAAD			100	69	•	34%	_	_		
				D9	U	3400				
Reican	Connect	Add to P	rofile							
Status	>> 802.11g-AP -W	irciess <>00-i	90- 98- 88-88	3-02				Link Quality >	100%	
	>> Link is Up ∏xP	Sector sector sector						Signal Strength		
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Authentication Encryption							_	Signal Strength 3		
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	>> 192.168.1.33							>> 54.0 Mbps	Max	
Sub Mesk	>> 255.255.255.0							>> 0.000 Kbps		
	**								7,480 Klaps	
Default Gateway	HT						Receive			
Default Gateway							Link Speed	>> 1.0 Waps	Max	
Default Gateway BW >> nJa		SNRD P	n/a					the second se		

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.				

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 >> 102, 11g-40 - Witeless <->00-ED-98-88-86-02 Link Quality >> 1000 Extra Info >> Link IS Up (Different 100%) Signal Strongth 1 >> 40% Channel >> 1					
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-4P -Wireless	
	MAC Address >> 00-EI-90-00-02	Signal Strength >> 60%
	Authentication Type >> Unknown Encryption Type >> None Channel >> 2 <> 24(7 WHz Network Type >> Infrastructure Beacon Interval >> 100	Supported Rate: (Mbpc) 1. 2, 5, 5, 11, 6, 9, 12, 18, 24, 36, 48, 54

WPS	General WPS CCX
	Authentication Type >> Unknown State >> Unknown
	Encryption Type >> None Version >> Unknown
	Config Method: >> Linknown AP Setup Lincked >> Linknown
	Device Password ID >> UUID-E >> Unknown
	Selected Registrer >> Unknown PP Bands >> Unknown
	WPS information contains Authentication Type, Encryption Type, Config Methods, Device Password ID, Selected Registrar, State, Version, AP Setup Locked, UUID-E and RF Bands.
	Authentication Type: There are four types of authentication modes supported by RaConfig. They are open, Shared, WPA-PSK and WPA system.
	Encryption Type: For open and shared authentication mode, the selection of encryption type are None and WEP. For WPA, WPA2, WPA-PSK and WPA2-PSK authentication mode, the encryption type supports both TKIP and AES.
	Config Methods : Correspond to the methods the AP supports as an Enrollee for adding external Registrars.
	Device Password ID: Indicate the method or identifies the specific password that the selected Registrar intends to use.
	Selected Registrar: Indicate if the user has recently activated a Registrar to add an Enrollee. The values are "TRUE" and "FALSE".
	State: The current configuration state on AP. The values are "Unconfigured" and "Configured".
	Version: WPS specified version.
	AP Setup Locked: Indicate if AP has entered a setup locked state.
	UUID-E: The universally unique identifier (UUID) element generated by the Enrollee. There is a value. It is 16 bytes.
	RF Bands : Indicate all RF bands available on the AP. A dual-band AP must provide it. The values are "2.4GHz" and "5GHz".
	OK: Click this button to exit the information screen.

CXX	General WPS CCX
	COVM >> FALSE Case >> FALSE Oxip >> FALSE
	OK
	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.

Profile	44 Network	Advanced	Statistics	WWW	Ø WPS	**
Wireless made >>	802, 11 870	G/IN mtk	•	Enable CCX (Cisco	Compatible eXtensions)	
			[Turn on CCKM		
				En oble Rodio M	cosurements	
Enable TX Bur	st			Non-Serv	ing Channel Weasurements limit	2.50 ms (0-2000)
Enable TCP W	indow Size					
Fast Roaming	at .70 dBm					
	ication Status Di	alog				
I STOW AUCTERS						
	Your Country Re	arion Code				
Select	Your Country Re	sgion Code				
Select	Your Country Re 0: CH1-11	egion Code	•			
Scient H B/G >> Apply	0: CH1-11	-	_			
Scient If B/G >> Apply Stetus	0: CH1-11	Wireless «~> 00	× >-E0-50-08-60-02		Link Quality	
Scient If B/G >> Apply Status Extro Info	0: CH1-11 >> 802, 11g-4P -1 >> Link is Up [7x	Wireless <> 00 Power:100%]	_		Signal Strend	h 1 >> 51%
Scient If B/G >> Apply Status Extro Info	0: CH1-11 >> 802.11g-4P -1 >> Link is Up [7x >> 2 ~~> 2~17 M	Wireless <> 00 Power:100%]	_		Signal Strengt Signal Strengt	h 1 >> 51% h 2 >> 51%
Select If B/G >> Apply Status Extra Info Channel	0: CH1-11 >> 802.11g-4P -1 >> Link is Up [7x >> 2 ~~> 2~17 M >> Unknown	Wireless <> 00 Power:100%]	_		Signal Strend	n 1 >> 51% h 2 >> 51% n 3 >> 70%
Select H B/G >> Apply Status Extro Info Channel Authentication Encryption	0: CH1-11 >> 802.11g-4P -1 >> Link is Up [7x >> 2 ~~> 2~17 M >> Unknown	Wireless <>00 Power:100%] Hz	_		Signal Strengt Signal Strengt Signal Strengt	n 1 >> 51% h 2 >> 51% n 3 >> 70%
Select If B/G >> Apply Status Extro Info Charnel Authentication Encryption Network Type	0: CH1-11 >> 802.11g-4P -1 >> Link is Up [7x <> 2 <> 2<-17 M >> Unknown >> None	Wineless <> 00 Power:1003) H2 TE	_		Sighei Shieng Sighei Shieng Signei Shiengt Noise Shiengt	n 1 >> 51% h 2 >> 51% n 3 >> 70%
Select If B/G >> Apply Status Extra Info Channel Authentication Encryption Network Type IP Address Sub Wask	0: CH1-11 >> 802.11g-AP -1 >> Link is Up [1x >> Link is Up [1x >> Unknown >> Nane >> Nane >> Infrastructur >> 192.168.1.03 >> 255.255.255.255.	Wireless <>00 Power:100% H2 fe	_		Signal Streng W Signal Streng W Signal Streng W Noise Streng Transmit	h 1 >> 51% h 1 >> 51% h 2 >> 51% h >> 70% th >> 26%
Select If B/G >> Apply Status Extro Info Channel Authentication Encryption Network Type IP Address	0: CH1-11 >> 802.11g-AP -1 >> Link is Up [Tx >> Link is Up [Tx >> Unknown >> Nane >> Infrastructur >> 192.168.1.03 >> 255.255.255.	Wireless <>00 Power:100% H2 fe	_		Stand Strengt Stand Strengt Signal Strengt Noise Strengt Transmit Link Speed >> 54.0 Wbps	h 1 >> 51% h 2 >> 51% h 3 >> 70% th +> 26%
Select If B/G >> Apply Status Extra Info Channel Authentication Encryption Network Type IP Address Sub Wask	0: CH1-11 >> 802.11g-AP -1 >> Link is Up [1x >> Link is Up [1x >> Unknown >> Nane >> Nane >> Infrastructur >> 192.168.1.03 >> 255.255.255.255.	Wireless <>00 Power:100% H2 fe	_		Signal Streng tr Signal Streng tr Noise Streng Transmit Link Speed >> 54.0 Wbps Throughput >> 0,000 Kbps Receive	h 1 >> 51% h 2 >> 51% h 2 >> 70% dh >> 26% Max 0,160 Kops
Select If B/G >> Apply Status Extra Info Channel Authentication Encryption Network Type IP Address Sub Wask	0: CH1-11 >> 802.11g-AP -1 >> Link is Up [Tx >> Link is Up [Tx >> Unknown >> Nane >> Infrastructur >> 192.168.1.03 >> 255.255.255.	Wireless «~>00 Power:100%] Hz IC	_		Signal Streng tr Signal Streng tr Noise Streng Transmit Link Speed >> 54.0 Wbps Throughput >> 0.000 Kbps	h 1 >> 51% h 1 >> 51% h 2 >> 50% dh >> 20% dh >> 20%

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.

(8"")			Str.	1000	1	2 C
Profile	Network	Advanced	Statistics	WIMA	WPS	•
Transmi		Receive				
Frames Tra	namitted Succes	sfully				450
Frames Ret	ransmitted Succ	essfully		-		39
Frames Fail	To Receive ACK	After All Retries				D
RTS Frames	Successfully Rec	cerve CTS				O
RTSFrames	Fall To Receive	CTS		2		0
Reset Counter						
		Windexx>00-	E0- 50- 88-68-02		L PK SQUARTS	y -> 160%
Status			E0-96-88-68-02			Contraction of the second s
Status Extra Info	>> 802.11g-4P -	xPower:100%]	E0-99-08-08-02			th 1 >> 49%
Status Extra Info Channel Authentication	>> 802.11g-4P - >> Link is Up (T >> 2 <-> 2417 ; >> Uhknown	xPower:100%]	E3-96-88-68-02		and the second	th 1 >> 49% 2 >> 55%
Status Extra Info Channel Authentication Encryption	>> 802.11g-AP >> Link is Up (T >> Z <> 2417 / >> Unknown >> None	xPower:100%) WHz	E3-96-88-66-02		Stand Streng Star Streng	th 1 ** 49% 2 ** 55% th 2 ** 7%
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Status Extra Info Channel Authentication Encryption Network Type IP Address	 » 802.11g-AP » Link is Up (T » Z <> 2417 » Unknown » Unknown » None » Infrastructu » 192.168.1.3 » 255.255.255 	xPower:1008] MHz Jre 3	E0-90-08-00-02		Bisnel Direr (g Big at Direr Signal Streng Noise Streng anamit	th 1 ** 49% 2 >> 55% th 9 ** 26% gth ** 26%
Status Extra Info Channel Authentication Encryption Network Type IP Address Sub Wask	 » 802.11g-AP » Link is Up (T » Z <> 2417 » Unknown » Unknown » None » Infrastructu » 192.168.1.3 » 255.255.255 	xPower:1000g WHZ Jre 3 .0	E0-96-88-68-02		Signal 2: noisg Signal 2: noisg Noise Streng Noise Streng ansmit Link Speed >> 54.0 Mbps Throughput >> 0.000 Kbps	th 1 ** 49% 2 >> 55% th 9 ** 26% gth ** 26%
Status Extra Info Channel Authentication Encryption Network Type IP Address Sub Wask Default Gateway	 » 802.11g-AP - » Link is Up [T » 2 <> 2417 - » Unknown » Unknown » None » Infrastructu » 192.168.1.3 » 255.255.255 	xPower:1008] WH2 Jre 3 .0			Signal Charles Signal Charles Norse Strang Norse Strang Inn Speed >> 54.0 Mbps Throughput >> 0.000 Kbps ceive	th 1 ** 49% 2 >> 55% th 9 ** 26% gth ** 26%
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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.

18 RaUI			X
Profile Network Adv	vanced Statistics	WIMM WPS	2 🕄 R
Transmit Rece	rive		
Frames Received Successfully			16
Frames Received With CRC Error			758
Frames Dropped Due To Out-of-R	esource		0
Duplicate Frames Received			0
Rezet Counter			
Status >> 802.11g-AP - Wirek	ess <>00-E0-58-68-68-02	Lin	k Quality >> 100%
Extra Info >> Link is Up (TxPowe	ar:100%)		(Strength) 1 >> 55%
Channel >> 2 <> 2417 MHz		Stena	Strength Z >> 55%
Authentication >> Unknown			i Strength 3 ×× 76%
Encryption >> None Network Type >> Infrastructure			e Strength >> 2ó%
IP Address >> 192,168,1.03		Transmit	Wax
Sub Wesk >> 255,255,255,0		Link Speed >> 54.0 Throughput >> 0.00	1 MDps
Default Gateway >>		initial pacing of the	D. 160 Mins
HT		Receive	A 1100
BW >> n/a	SNPO >> n/a	Link Speed >> 1.0	Maps Mex
Gl>⊧n/a WCS≫n/a	SNR1 ₩ n/a	Throughput >> 9.42	9.920 Rope

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.

<u>P</u>	<u></u>	SP.	M	005	O		?
Profile	Network	Advanced	Statistics	WWWW	WPS		
WMM Setup Sta	itus						
WW.	M >> Enabled	Ромен	Save >> Disabled			Direct I	Link 🙌 Disabled
in an	A Enable						
	WMM - Power Sa	ve Enable					
	AC.,BK		VC_BE	N_08	□ 40.3		
	Direct Link Setu:	p Enable					
_	ANC ADDRESS			Timesut	Value >> 60 se		Apply
							A4.10
						142	ar Daxn
							5. 5.57.1
Stat	:us ≫ 602.11g-AP	-Wireless <> 00	HED-90-00-00-02		1	8. Quality or 10	
	us ≫ 602.11g-AP nfo ≫ Link is Up [is.
Extra Ir		TxPower:100%]	0-E0-90-88-56-02		Sign	k Quality yr 101	19x
Extra Ir Chan	nfo∞ Link is Up ∏	TxPower:100%]	3-20-90-88-88-8		Sign: Sign	k Quality -> 10 Steer gen 1 >>	1%: 49% 44%
Extra in Chan Authenticat	nfo≫ Link is Up ∏ nel >> 2 <> 2417	TxPower:100%]	9-20-99-88-88-8		Sign Sign Sign	k Şunity → 100 Stringth 1 ≫ 4 St <mark>rength 2 ≫</mark>	175 4915 4415 1515
Extra in Chan Authenticati Encrypti	nfo ≫ Link is Up () nel ≫ 2 «→>2417 ion ≫ Unknown	TxPower:100%) WH2	9-20-79-88-88-82-02		Sign Sign Sign	s: Quanty >> 100 distant <mark>y</mark> th 1 >> dist <mark>erny</mark> th 2 >> distantyth 2 >> distantyth 2 >>	175 4915 4415 1515
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Extra in Chan Authenticati Encrypti Natwork Ty IP Addre	nfo ->> Link is Up () nel +>> 2 <>> 2417 kan +>> Unknown kan ->> Nane pe +>> Infrastruct	TxPower:100%) WHz uns 33	9 -20-90-00-0 2		Sign Sign Rot Tranumit Link Speed >> 54.	 A spectry >> 100 a Strate geth 1 >> 100 a Strate geth 1 >> 100 a Strate geth 2 >> 100 b Renegth 2 >> 20 b Abps 	18 49K 44X 15K 15K Mest
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Extra in Chan Authenticati Encrypti Natwork Ty IP Addre Sub Ma Default Gatew BW >> n/a	nfo >> Link is Up [nel >> 2 <> 2417 on >> Unknown on >> None pe >> Infrastructs iss >> 192.168.1.3 isk >> 255.255.25 egy >> HT	ГхРомет:1008) WH2 uns 33 5.0 r			Stars Stars Transmit Link Speed >> 54, Throughput >> 0.0 Receive Link Speed >> 1.0	 A spectry in 100 a Strangth 1 >> 100 a Strangth 2 >> 11 Strangth 2 >>	49X 44X 15X 55X 0.160 15ps
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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	able 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

C.

Advanced



Click this icon to turn off radio function.

About



(lie

WIWA

Ø WPS

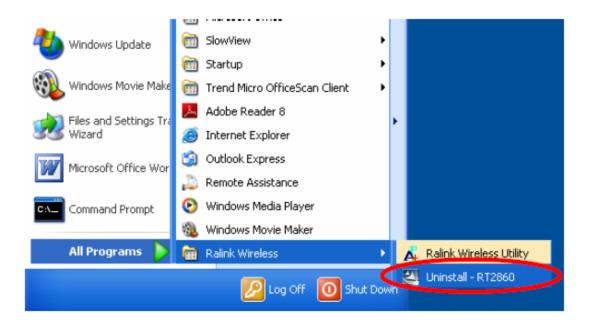
Click this button to show the information of the wireless card including, RaConfig Version/ Date, Driver Version/ Date, EEPROM Version, Firmware Version and Phy_Address.

Profile	Network	Advance	ed Stat	listics	WMM	() WPS				Č	R
		(c) Copyright 3	2007, Ralink T	echnology, li	nc. All rights re	served.					19
		RaConfig Vers	ion >> 2.0.2.	a		Date >> O	5-15-2007				
			ion >> 1.0.3.	0		Date >> 0	5-07-2007				
		EEPROM Vers									
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				www.	RALINKTECH.O	ом					
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	atus >> 802, f1g Info >> Link is U				,RALINKTECH.C	сж	Link vanikr				
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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.



Intelligent wireless card -	InstallShield Wizard	×
Please select one way to c	ontinue install.	
	There have existed an older version. Which way do you like to do?	
InstallShield	<back next=""></back>	Cancel

2. Select Remove all button and click Next to start uninstalling.

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



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

Intelligent wireless card - In	istallShield Wizard
	Uninstall Complete InstalShield Wizard has finished uninstalling Intelligent wireless card.
	 Yee, I want to restait my computer new. No, I will restait my computer later. Remove any disks from their drives, and then click Finish to complete setup.
InstallShield	< Back Finish Cancel