# 802.11 b/g/n

# **Wireless PCI Express Mini Card**

Qcom Technology Inc.



# User's Manual

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\$	This product standardized the Radio Frequency
	Module:  XXXyyyLPDzzzz-x 🦯 .
🗢 NOTE: 🔶	The system manufacturer is required to attach
	this Module Approval Label to the system prior
	to delivery.

# Windows Vista

# **Driver Installation**

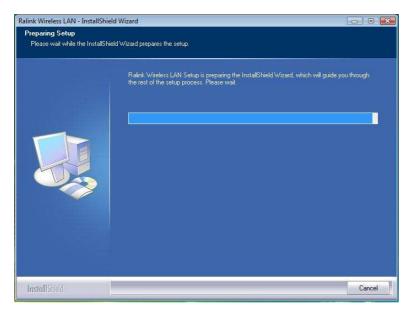
1. For installing the Wireless LAN Card driver, go to the directory where the Wireless Adapter Installation stored, then double-click the **Setup Program** 



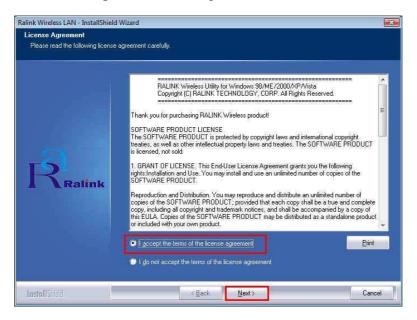
to begin the installation.

(Exsample: IS\_AP\_STA\_RT2860\_D-1.1.0.0\_VA-2.0.2.0\_RU-2.0.7.0\_VA-2.0.8.0\_AU\_1.2.2.0 \_VA-1.0.5.0\_112607\_0.1.0.37.exe)

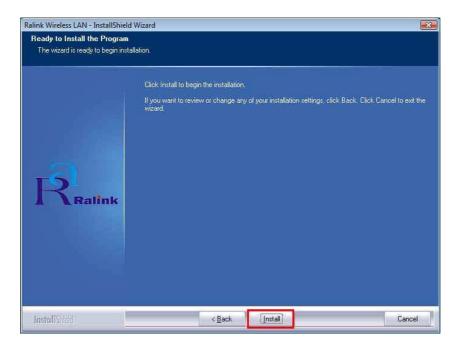
2. Ralink Wireless LAN Setup Wizard is preparing the setup. Please wait.



3. Ralink Wireless Network Card Setup Wizard will install the driver on your system. Select "I accept the terms of the license agreement" and then click "Next" to accept the License Agreement.



4. Click "Install" to begin the driver installation.



5. The Ralink Wireless LAN driver is installing. Please wait.

Ralink Wireless LAN - InstallShie	Id Wizard	23
Setup Status		
	The InstallShield Wizard is installing Ralink Wireless LAN	
	Installing	
Ralink	Please Wait	
InstallStred	Ca	ncel

6. The installation is now complete. Please click "Finish".

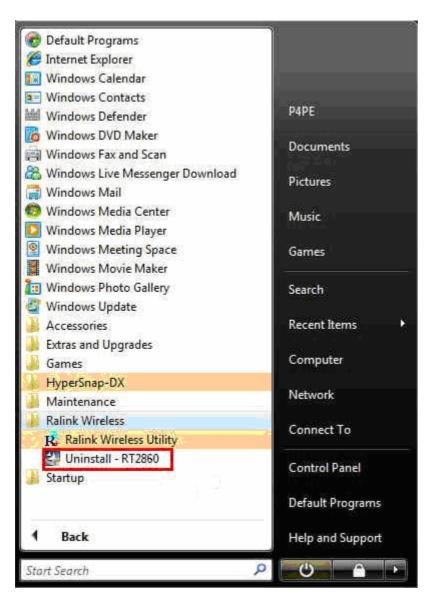
Ralink Wireless LAN - InstallShield	Wizard
	InstallShield Wizard Complete The InstallShield Wizard has successfully installed Ralink Wireless LAN., Click Finish to exit the
Ralink	wizard
InstallShield	< Back Finish Cancel

7. When you complete the installation, the utility icon will appear on the system

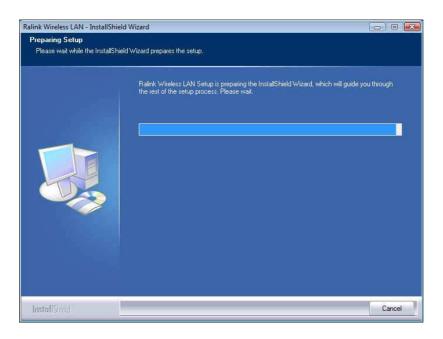
tray ( 10:33 AM ). You could double-click it to configure wireless network settings.

# Uninstalling the Wireless LAN Card

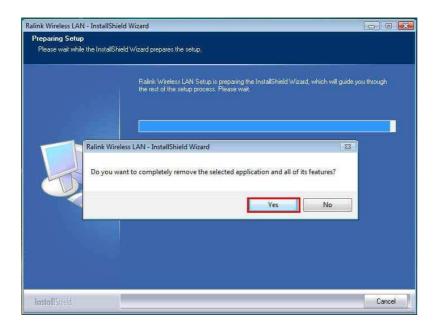
 For uninstalling the Wireless LAN Card, please go to: Start → All Programs → Ralink Wireless under Windows environment. Then click "Uninstall – RT2860".



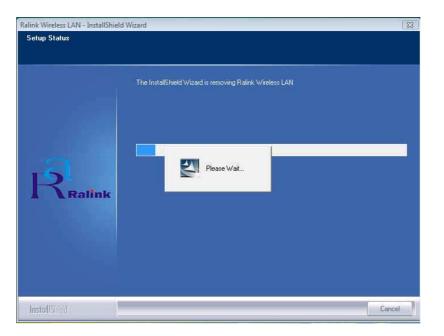
2. **Ralink Wireless LAN Setup Wizard** prepares to uninstall the driver on your system. Please wait.



3. Click "Yes" to uninstall the Wireless LAN Card driver and utility.



4. Wait for removing the driver and utility.



5. After completing the un-installation, click "Finish" to restart your computer.



# **Configuring the Wireless LAN Card**

Double-click the utility icon in your system tray to begin the utility configuration.

# Connecting to an existing network

Select **Network** Tab, all available Access Points would be listed. Click on the desired Access Point, and click **"Connect"** to connect.

🙀 RaUI						×
Profile	Advanced	) Statistics	WAWA	<b>Ø</b> WPS	Radio On/Off	R 🔿
Sorted by >> 📀 SSID	Channe		Signal		Show dBm	
	Dav	AP List				
	<b>1</b> 2	P a	15%			
	<b>\$</b> 5	P a	39%			
3Com-IPX	<b>1</b> 1	69	0%			
ADSL	106	6 7	100% 📕			
besound	611	69 🕈	34%			
corega	61	69 9	5%			
corega	<b>\$</b> 6	bg e	0%			
dlink	11	<b>Bg e</b>	5%			
Q1	\$7	13 9	81%			
WIFLY	Ø5	69	29%			~
Rescan Connect	Add to Profile					
Status >> WIFLY <> 00-17	-D1-FE-D3-E0			Lin	Quality >> 99%	
Extra Info >> Link is Up [TxPow	er;100%]			Signal	Strength 1 >> 25%	
Channel >> 5 <> 2432 MHz				Signal	Strength 2 >> 24%	
Authentication >> Unknown				Noise	e Strength >> 26%	
Encryption >> None						
Network Type >> Infrastructure			Tran			
IP Address >> 88.88.88.12 Sub Mask >> 255.255.255.0				Link Speed >> 1.0 A	19	
Default Gateway >> 88,88,88,1			1	hroughput >> 0.00	4.848	- dl
нт			Rece		Kbps	
BW >> n∕a	SNRO >> n/a			nve Link Speed >> 1.0≬	Abos Maxi	
Gi>>n/a MCS>>n/a	SNR1 >> n/a			hroughput >> 28.1	08 Kbps	
	1710-24 Investments				28.108 Kbps	

# Configuration

• Profile

The **Profile Tab** allows you to set values for all parameters by selecting a previously defined profile. To create a profile, click Add, type a profile name and set the corresponding parameters. If one of the profiles is no longer used, you may remove it by clicking the Delete button. You can click Edit to change the exiting profile. After changing parameters, click the Activate button to take effect. You can have multiple profiles and modify the profile at any time.

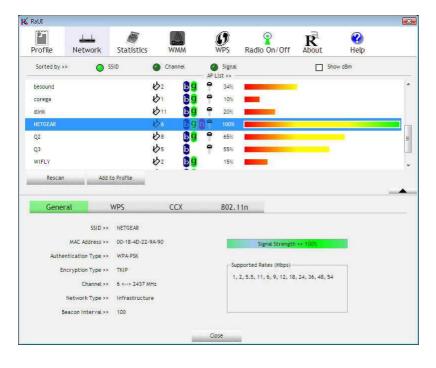


• Network

**Network** Tab lists the features of the available Access Points within range of the Wireless Adapter's signal.

Click on the desired Access Point, and click Connect to connect.

You may click Rescan to refresh the list.



#### Add to Profile

You may select an Access Point, and click Add to Profile to include it to Profile List. Under **System Config** Tab, you may set Power Saving Mode, Network Type, RTS Threshold, and Fragment Threshold.

Profile Net	work	Statistics	V			() WPS	Radio On/Off	R	<b>?</b> Неф	
Sorted by >>	0 5	SID	O Ch	annel	-	) Signal		🗋 Sh	ow dBm	
besound			162	69	-	34%	-			
corega			101	69	٩	10%				
dlink			1011	<b>B</b> g	9	20%	-			
NETGEAR			100	<b>B</b> g	17	100%				
Q2			68	6 <mark>9</mark>	7	65%			-	
Q3			105	Ь	٩	55%				
WIFLY			102	69		15%				
Rescan	Add t	to Profile	Ÿ-							
		wPS	•	ccx		802.1	1n			
Rescan			•				1n			
Rescan General	SSID >>	WPS					1n Signal Strengt	h≫ 100%		
Rescan General	SSID >> ddress >>	WPS NETGEAR						h >> 100%		
Rescan General MAC A Authenticatio	SSID >> ddress >>	WPS NETGEAR 00-18-4D-22-				802.1	Signal Strengt			
Rescan General MAC A Authenticatio Encryptio	SSID >> ddress >> n Type >> n Type >>	WPS NETGEAR 00-18-4D-22- <sup>1</sup> WPA-PSK	94-90			802.1	Signal Strengt			
Rescan General MAC A Authenticatio Encryptio	SSID >> ddress >> n Type >> n Type >> .hannel >>	WPS NETGEAR 00-18-4D-22- <sup>1</sup> WPA-PSK TKIP	9А-90 Нz			802.1	Signal Strengt			
Rescan General MAC A Authenticatio Encryptio C Networ	SSID >> ddress >> n Type >> n Type >> .hannel >>	WPS NETGEAR 00-18-4D-22- <sup>1</sup> WPA-PSK TKIP 6 <> 2437 M Infrastructur	9А-90 Нz			802.1	Signal Strengt			

Under Auth. \ Encry. Tab, you may set Authentication Type, Encryption Type, WPA Pre-Shared Key, and Wep Key.

Click OK when you have finished the settings.

Or click Cancel to abort your new settings for Add to Profile.

RaUI								2
Profile Network	Statistics	WMM		() WPS	Radio On/Off	R	🕜 Help	
Sorted by >> 🔵 SSI	D 🧳	Channel		) Signal .ist >>		S	now dBm	
dünk	ł	<b>5</b> 11 <b>1</b>	9 9	29%				
NETGEAR	K		909	100%	-			
Q2		8	9 🕈	65%				
Q3		5	7	50%				
WIFLY			9	2.4%				I
WIFLY	K		99	20%				1
WL520G Rescan Add to			9 7	100%				
Rescan Add to		802.1X		100%				
Rescan Add to	Profile			100%	TKIP	<b>.</b>		
Rescan Add to System Config Auth.	Profile Encry. WPA-PSK	802.1X			TKIP	<b>.</b>		
Rescan Add to System Config Auth. \ Authentication >>	Profile Encry. WPA-PSK	802.1X			TKIP	*		
Rescan Add to System Config Auth. A Authentication >> WPA Preshared Key >>	Profile Encry. WPA-PSK	8021X			THIP		Show Password	
Rescan Add to System Config Auth. Authentication >> WPA Preshared Key >> Wep Key	Profile Encry. WPA-PSK	8021X			TKIP		Show Password	
Rescan Add to System Config Auth. Authentication >> WPA Preshared Key >> Wep Key @ Key#1	Profile Encry. WPA-PSK Hexadecime	8021X			ТКІР		Show Password	
Rescan Add to System Config Auth. A Authentication >> WPA Preshared Key >> Wep Key @ koy#1 @ koy#2	Profile Encry. WPA-P5K Hexadecima Hexadecima	802.1X			TKIP		Show Password	

After fishing the Add Profile, Check **Profile** Tab, you may find the new added profile in Profile List.

P	<u></u>	M	Cos	Ø	<b>9</b>	R	<b>?</b>
Profile	Network	Statistics	WMM	WPS	Radio On/Off	About	Help
		Profile List —					
PROF2	NETG	EAR		₽ø	Network Typ Authenticatio Encryptio Use 802.1	D >> NETGEAR e >> Infrastruct n >> WPA-PSK n >> TKIP	ure
Add	Ed	it D	elete	Activate			
							1000
	Status NET	GFAD 4 00-18.4D	22.94.90	-	Lin	k Quality >> 100	-
Ex		GEAR <> 00-18-4D- is Up (TxPower:10)				k Quality >> 100 I Strength 1 >> 5	
	tra Info >> Link	GEAR <> 00-18-4D is Up [TxPower:100 -> 2437 MHz; centri	2%]		Signa		19%
	tra Info >> Link	is Up [TxPower:100 > 2437 MHz; centra	2%]		Signa	l Strength 1 >> 9	9%
Authen	tra Info >> Link Channel >> 6 <-	is Up [TxPower:100 -> 2437 MHz; centra -PSK	2%]		Signa	l Strength 1 >> 9 Strength 2 >> 1	9%
Authen Enc	tra Info >> Link Channel >> 6 <- tication >> WP/	is Up [TxPower:100 -> 2437 MHz; centri N-PSK	2%]	Tra	Signa	I Strength 1 >> 5 Strength 2 >> 1 Strength >> 20	9%
Authen Enc Netwo	tra Info >> Link Channel >> 6 <- tication >> WPA cryption >> TKIF	is Up [TxPower:100 -> 2437 MHz; centri N-PSK astructure	2%]		Signa Signa Nois	I Strength 1 >> 5 Strength 2 >> 1 Strength >> 20	9%
Authen Enc Netwo IP S	tra Info >> Link Channel >> 6 <- tication >> WPA cryption >> TKIF ork Type >> Infr	is Up [TxPower:100 -> 2437 MHz; centri +PSK 	2%]	Lā	Signa Signal Nois nsmit	I Strength 1 >> 1 Strength 2 >> 1 e Strength >> 20 Max	9%
Authen Enc Netwo IP S	tra info >> Link Channel >> 6 <- tication >> WP4 cryption >> TKIF ork Type >> Infr Address >> 192. ub Mask >> 255.	is Up [TxPower:100 -> 2437 MHz; centri +PSK 	2%]	Li Th Rec	Signa Signa Nois nsmit nk Speed >> 150.0 Mbps	Strength 1 >> 0 Strength 2 >> 1 ie Strength >> 2/ Max 5 319.248 Kbps	9%

# Statistics

The **Statistics** Tab provides information about the Transmit and Receive frames.

	A Q D Q
rofile Network Statistics WMM	WPS Radio On/Off About Help
Transmit Receive	
Frames Transmitted Successfully	= 2030
Frames Retransmitted Successfully	= 62
Frames Fail To Receive ACK After All Retries	= 0
RTS Frames Successfully Receive CTS	- 0
	- 0
RTS Frames Fail To Receive CTS	- 0
Reset Counter	_
Status >> NETGEAR <> 00-18-4D-22-9A-90	Link Quality >> 100%
Extra Info >> Link is Up [TxPower:100%]	Signal Strength 1 >> 98%
Channel >> 6 <> 2437 MHz; central channel: 8	Signal Strength 2 >> 96%
Authentication >> WPA-P5K	Noise Strength >> 26%
Encryption >> TKIP Network Type >> Infrastructure	Transmit
IP Address >> 192.168.7.4	Link Speed >> 150.0 Mbps Max
Sub Mask >> 255.255.255.0	Throughput >> 0.000 Kbps 319.248
Default Gateway >> 192.168.7.1	Kbps Tak
нт	Receive Max
BW >> 40 SNR0 >> 20	Link Speed >> 243.0 Mbps
GI >> short MCS >> 7 SNR1 >> 19	Throughput >>24.012 Kbps 5.035 Mbbs 1.
	Throughput >>24.012 Kbps 5.035 Mbps 1
GI >> short MCS >> 7 SNR1 >> 19	
GI >> short MCS >> 7 SNR1 >> 19	
GI >> short MCS >> 7 SNRT >> 19	
GI >> short MCS >> 7 SNRT >> 19 SUI Perfile Network Statistics WMM Transmit Receive Frames Received Successfully	• 9684
GI >> short MCS >> 7 SNRT >> 19 sut rofile Metwork Statistics WMM Transmit Receive Frames Received Successfully Frames Received With CRC Error	Mbps kk
GI>> short MCS>> 7 SNRT >> 19 SUT Forfile Land Statistics WMM Transmit Received Frames Received Successfully Frames Received With CRC Error Frames Dropped Due To Out-of-Resource	Mbps         K           WPS         Radio On/Off         Rev           -         9684           -         119           -         0
GI >> short MCS >> 7 SNRT >> 19 sut rofile Metwork Statistics WMM Transmit Receive Frames Received Successfully Frames Received With CRC Error	Mbps kk
GI>> short MCS>> 7 SNRT >> 19 SUT Forfile Land Statistics WMM Transmit Received Frames Received Successfully Frames Received With CRC Error Frames Dropped Due To Out-of-Resource	Mbps         K           WPS         Radio On/Off         Rev           -         9684           -         119           -         0
GI>> short MCS>> 7 SNRT>> 19 SUI Perfile Let Statistics WMM Transmit Receive Frames Received Successfully Frames Received With CRC Error Frames Dropped Due To Out-of-Resource Duplicate Frames Received	Μαστ         Μαστ           WPS         Radio On/Off         Reg         Help           -         9684         4119         -           -         9684         -         -           -         9684         -         -           -         9684         -         -           -         0         -         0           -         0         -         0
GI >> short     MCS >> 7     SNRT >> 19       SUI     Image: Statistics     Image: Statistics       Transmit     Receive       Frames Received Successfully       Frames Received Successfully       Frames Received With CRC Error       Frames Dropped Due To Out-of-Resource       Duplicate Frames Received	
GI >> short     MCS >> 7     SNRT >> 19       SUI     Statistics     WMM       Image: Statistics     WMM       Transmit     Receive       Frames Received Successfuly       Frames Received With CRC Error       Frames Dropped Due To Out-of-Resource       Duplicate Frames Received       Reset Counter       Status >>     NETGEAR <-> 00-18-4D-22-9A-90       Extra Info >>     Link is Up [TxPower:1029]       Chame>>     6 <-> 2427 MH2; central channel : 8	Mbps         P           WPS         Radio On/Off         Rev         Help           -         9684         Help           -         4119         Help           -         0         Help           -         0         Help           -         0         Help           -         0         Help
GI>> short     MCS>> 7     SNRT >> 19       SUI     Statistics     WMM       Print     Statistics     WMM   Transmit Received Frames Received Successfully Frames Received With CRC Error Frames Dropped Due To Out-of-Resource Duplicate Frames Received Reset Counter Status >> NETGEAR <->> 00-18-40-32-9A-90 Extra Info >> Link is Up [TxPower1100h] Channel >> 6(->>> 2477 MHz; central channel : 8 Authentication >> WPA-PSK	
GI>> short MCS>> 7 SNRT>> 19 SUI Frontil Let Statistics WMM Transmit Receive Frames Received Successfully Frames Received With CRC Error Frames Dropped Due To Out-of-Resource Duplicate Frames Received Reset Counter Status >> NETGEAR <-> 00-18-4D-22-9A-90 Extra Info >> Link is Up [TxPower1100%] Channel >> 61 <->> 4377 MHz; central channel : 8 Authentication >> WPAPK Encryption >> TKIP	Mbps         K           WPS         Radio On/Off         K         Image: Control of the second se
GI>> short     MCS>> 7     SNRT >> 19       SUI     Statistics     WMM       Print     Statistics     WMM   Transmit Received Frames Received Successfully Frames Received With CRC Error Frames Dropped Due To Out-of-Resource Duplicate Frames Received Reset Counter Status >> NETGEAR <->> 00-18-40-32-9A-90 Extra Info >> Link is Up [TxPower1100h] Channel >> 6(->>> 2477 MHz; central channel : 8 Authentication >> WPA-PSK	Mbps         P           WPS         Radio On/Off         Rev         Help           -         9684         Help           -         4119         Help           -         0         Help           -         0         Help           -         0         Help           -         0         Help
GI>> short MCS>> 7 SNRT>> 19 SUT Frofile Let Statistics WMM Transmit Receive Frames Received Successfully Frames Received With CRC Error Frames Dropped Due To Out-of-Resource Duplicate Frames Received Reset Counter Status>> NETGEAR <-> 00-18-4D-22-9A-90 Extra Info>> Link is Up (TxPower:100ki) Channet > 6 <-> 2437 MHz; central channet : 8 Authentication >> WPA-PSK Encryption >> TUP NetWork Type >> Infrastructure IP RAME >> 255.255.0	Mbps     Mbps       WPS     Radio On/Off     Rev       -     9684       -     4119       -     0       -     0       -     0
GI>> short MCS>> 7 SNRT>> 19 SUT Frofile Metwork Statistics WMM Transmit Receive Frames Received Successfully Frames Received With CRC Error Frames Received With CRC Error Frames Dropped Due To Out-of-Resource Duplicate Frames Received Reset Counter Status >> NETGEAR <-> 00-18-4D-32-9A-90 Extra Info >> Link is Up [TxPower:100%] Channel >> 6 <-> 2437 MH2; central channel : 8 Authentication >> WPA-PSK Encryption >> ThP Network Type >> Infrastructure IP Address >> 192.168.7.4	Wbps         Wbps <th< td=""></th<>
GI>> short MCS>> 7 SNRT>> 19 SUT Frofile Let Statistics WMM Transmit Receive Frames Received Successfully Frames Received With CRC Error Frames Dropped Due To Out-of-Resource Duplicate Frames Received Reset Counter Status>> NETGEAR <-> 00-18-4D-22-9A-90 Extra Info>> Link is Up (TxPower:100ki) Channet > 6 <-> 2437 MHz; central channet : 8 Authentication >> WPA-PSK Encryption >> TUP NetWork Type >> Infrastructure IP RAME >> 255.255.0	Mbps         Mbps           WPS         Radio On/Off         Rev         Help           -         9684         Help           -         9684         Help           -         9684         Help           -         9584         Help           -         0         Help
GI >> short MCS >> 7 SNRT >> 19	Mbps         Mbps           WPS         Radio On/Off         Ke           -         9884           -         4119           -         0           Noise Strength 2.8           -         10.04           -         10.248           Receive         -

## • WMM

**WMM** shows WMM function includes "WMM Enable", "WMM-Power Save Enable" and "Direct Link Setup Enable".

IUI								
P _	L (		Ros	0	9	R	a	<b>?</b>
rofile Netw	ork Stat	istics	WMM	WPS	Radio On/Of	Abo	out	Help
/MM Setup Status								
WMM >> Enabled Power Save >> Disabled						Direct	: Link >> Dis	abled
WMM	Enable							
	MM - Power Save	Enable						
1	AC BK	AC.	BE 🔲	AC_VI	AC_VO			
-	rect Link Setup I	Testis						
Land - State	AC Address >>			Time	out Value >> 🛛 🤞	0 sec		
.17	MG MUUT B35-SSS			1.000	out value >>	0 sec		
								Apply
								CHERT .
								Tear. Down
Status >>	NETGEAR>	00-18-4D-22	2-9A-90			Link Quali	ty >> 100%	ALC: NOTE OF
Status >> Extra info >>	0.000	S9/12 (2.5		_			ty >> 100% gth 1 >> 97%	Tean Down
	Link is Up [Tx	Power:100%	1		S	gnal Stren		Tear. Down
Extra Info >>	Link is Up [Tx 6 <> 2437 M	Power:100%	1		Si Si	gnal Stren mai Streng	gth 1 >> 979	Tean Down
Extra Info >> Channel >>	Link is Up [Tx 6 <> 2437 M WPA-PSK	Power:100%	1		Si Si	gnal Stren mai Streng	gth 1 >> 979 gth 2 >> 100	Tean Down
Extra Info >> Channel >> Authentication >>	Link is Up [Tx 6 <> 2437 M WPA-PSK TKIP	Power:100% Hz; central o	1	Tra	Si Si	gnal Stren mai Streng	gth 1 >> 97 gth 2 >> 100 ngth >> 26%	Tean Down
Extra Info >> Channel >> Authentication >> Encryption >> Network Type >>	Link is Up [Tx 6 <> 2437 M WPA-PSK TKIP	Power:100% Hz; central o	1		Si Sig	gnal Stren mal Streng loise Stren	gth 1 >> 979 gth 2 >> 100	Tean Down
Extra Info >> Channel >> Authentication >> Encryption >> Network Type >> IP Address >>	Link is Up [Tx 6 <> 2437 M WPA-P5K TKIP Infrastructur	Power:100% Hz; central o e	1	U	Si Sig nsmit nk Speed >> 150.0 M	gnal Stren nal Streng loise Stren bps	gth 1 >> 975 gth 2 >> 100 ngth >> 26% Max	Tean Down
Extra Info >> Channel >> Authentication >> Encryption >> Network Type >> IP Address >>	Link is Up [Tx 6 <> 2437 M WPA-PSK TKIP Infrastructur 192.168.7.4 255.255.255.255.	Power:100% Hz; central o e	1	U	Si Sig Insmit	gnal Stren nal Streng loise Stren bps	gth 1 >> 97 gth 2 >> 100 ngth >> 26%	Tean Down
Extra info >> Channel >> Authentication >> Encryption >> Network Type >> IP Address >> Sub Mask >>	Link is Up [T× 6 <> 2437 M WPA-P5K TKIP Infrastructur 192.168.7.4 255.255.255. 192.168.7.1	Power:100% Hz; central o e	1	Li Th	Si Sig nsmit nk Speed >> 150.0 M	gnal Stren nal Streng loise Stren bps	gth 1 >> 975 gth 2 >> 100 ngth >> 26% Max 319.248 KDps	Tean Down
Extra Info >> Channel >> Authentication >> Encryption >> Network Type >> IP Address >> Sub Mask >> Default Gateway >>	Link is Up [Tx 6 <> 2437 M WPA-PSK TKIP Infrastructur 192.168.7.4 255.255.255.255.	Power:100% Hz; central o e	] channel : 8	Li Th Re	si sift insmit nk Speed >> 150.0 M roughput >> 0.192 K	anal Stren nal Strens loise Stren bps bps	gth 1 >> 975 gth 2 >> 100 ngth >> 26% Max 319.248	Tean Down
Extra info >> Channel >> Authentication >> Encryption >> Network Type >> IP Address >> Sub Mask >>	Link is Up [T× 6 <> 2437 M WPA-P5K TKIP Infrastructur 192.168.7.4 255.255.255. 192.168.7.1	Power:100% Hz; central o e	] channel : 8	Li Th Re L	si sinsmit nk Speed >> 150.0 M roughput >> 0.192 K seive	enal Stren Inal Streng Noise Stren Dops Dops Dops	gth 1 >> 975 gth 2 >> 100 ngth >> 26% Max 319.248 KDps	Tean Down

## • WPS

**WPS** Tab shows the information including authentication type, encryption type, config mode, device password id, selected registrar, state, version, AP setup locked, UUID-E and RF bands.

Profile Net	work Statistics	Gos	<b>Ø</b> WPS	Radio On/Off	R	😯 Help
		WPS AP List				
						Rescan Information Pin Code 59011682 Renew Config Mode Enrollee
_		m			1	Connect
and the second s	WPS Associate IE WPS Probe IE		Pri	ogress >> 0%		Potate Disconnect Export Profile Delete
Status	>> NETGEAR <> 00-18	4D-22-9A-90			: Quality >> 100%	
	>> Link is Up [TxPower:			2017.00	Strength 1 >> 99% Strength 2 >> 100%	
Channel	>> 6 <> 2437 MHz; cen	itral channel : 8			e Strength >> 26%	
A A A A A A A A A A A A A A A A A A A	VA-PSK		-	11012	our offengen vor 2011	
Authentication	TKIP					
Encryption			Tra	insmit		
Encryption Network Type	>> TKIP>> Infrastructure>> 192.168.7.4			nsmit nk Speed >> 150.0 Mbps	Max	
Encryption Network Type IP Address	<ul> <li>Infrastructure</li> <li>192.168.7.4</li> <li>255.255.255.0</li> </ul>		Li		319.248	
Encryption Network Type IP Address Sub Mask	<pre>&gt;&gt; Infrastructure &gt;&gt; 192.168.7.4 &gt;&gt; 255.255.255.0 &gt;&gt; 192.168.7.1</pre>		Li Th	nk Speed >> 150.0 Mbps	319.248 Kbps	
Encryption Network Type IP Address Sub Mask	<pre>&gt;&gt; Infrastructure &gt;&gt; 192.168.7.4 &gt;&gt; 255.255.255.0 &gt;&gt; 192.168.7.1 HT</pre>		Li Th Rec L	nk Speed >> 150.0 Mbps roughput >> 0.000 Kbps	319.248 Kbps Max	

• Radio On / Off

	<b>Q</b> .
Click the icon	Radio On/O

on/Off to switch the radio on or off.

# • About

**About** Tab shows the product version including the detail of Configuration Utility Version, Driver Version, EEPROM Version, and NIC MAC Address.

	L <i>M</i>	GoS	G	8	R	<b>(</b>
rofile Netw	ork Statistics	WMM	WPS	Radio On/Off	About	Help
	(c) Copyright 20	07, Ralink Techno	iogy, <mark>Inc</mark> . AL	I rights reserved.		
	RaConfig Version >>	2.0.8.0		Date >>	11-26-2 <mark>0</mark> 07	
	Driver Version >>	2.1.3.0		Date >>	11-21-2007	
	EEPROM Version >>	1.2				
	Phy_Address >>	00-0D-F0-0	00-84-EF			
	1	ww	W.RALINKTE	CH.COM		
Statis vy	NETGEAD Your 00-18-40-22		W.RALINKTE		Link Quality >> 10	0%
	NETGEAR <> 00-18-4D-22	1-9A-90	W.RALINKTE		Link Quality >> 10 gnal Strength 1 >>	
Extra Info >>	NETGEAR <> 00-18-4D-22 Link is Up [TxPower:100%] 6 <> 247 MHz: central c	1-9A-90	W.RALINKTE	SH		98%
Extra Info >>	Link is Up [TxPower:100%] 6 <> 2437 MHz; central of	1-9A-90	W.RALINKTEO	Si Sig	gnal Strength 1 >>	98%
Extra Info >> Channel >>	Link is Up [TxPower:100%] 6 <> 2437 MHz; central o WPA-P5K	1-9A-90	W.RALINKTE	Si Sig	gnal Strength 1 >> mai Strength 2 >>	98%
Extra Info >> Channel >> Authentication >> Encryption >>	Link is Up [TxPower:100%] 6 <> 2437 MHz; central o WPA-P5K	1-9A-90		Si Sig	gnal Strength 1 >> inal Strength 2 >> loise Strength >>	98%
Extra Info >> Channel >> Authentication >> Encryption >> Network Type >>	Link is Up [TxPower:100%] 6 <> 2437 MHz; central o WPA-P5K TKIP	1-9A-90	Tra	Si Sig N	gnal Strength 1 >> nai Strength 2 >> loise Strength >>	98%
Extra Info >> Channel >> Authentication >> Encryption >> Network Type >> IP Address >>	Link is Up [TxPower:100%] 6 <> 2437 MHz; central o WPA-PSK TKIP Infrastructure	1-9A-90	Tra	Sig Sig P ansmit	gnal Strength 1 >> mal Strength 2 >> loise Strength >> bps Max	98%
Extra Info >> Channel >> Authentication >> Encryption >> Network Type >> IP Address >>	Link is Up [TxPower:100%] 6 <> 2437 MHz; central o WPA-PSK TKIP Infrastructure 192.168.7.4 255.255.255.0	1-9A-90	Tra	Sig Sig nsmit ink Speed >> 150.0 M	anal Strength 1 >> inal Strength 2 >> loise Strength >> bps Max	98%
Extra Info >> Channel >> Authentication >> Encryption >> Network Type >> IP Address >> Sub Mask >>	Link Is Up [TxPower:100%] 6 <> 2437 MHz; central of WPA-PSK TKIP Infrastructure 192.168.7.4 255.255.255.0 192.168.7.1	1-9A-90	Tre Li Th Rec	Sig Sig namit rink Speed >> 150.0 M roughput >> 13.216 i celve	anal Strength 1 >> nal Strength 2 >> loise Strength >> bps Max (bps 58,304 Kbps Max	98%
Extra Info >> Channel >> Authentication >> Encryption >> Network Type >> IP Address >> Sub Mask >>	Link is Up [TxPower:100%] 6 <> 2437 MHz; central o WPA-PSK TKIP Infrastructure 192.168.7.4 255.255.255.0	:-9A-90   :hannel : 8	Tre Li Th Rec	si Sig ansmit ink Speed >> 150.0 M roughput >> 13.216 i	anal Strength 1 >> nal Strength 2 >> loise Strength >> bps Max (bps 58,304 Kbps Max	98%

## • Link Status

Status	>> ADSL <> 00-A0-B0	)-37-11-05	Link Quality <				
Extra Info	>> Link is Up [TxPowe	ir:100%]	Signal Strength 1	>> 100×			
Channel	>> 6 <> 2437 MHz		Stighted Strendstift 2 >> 100%				
Authentication	>> Open		Noise Strength >> 26%				
Encryption	>> WEP						
Network Type	>> Infrastructure		Transmit				
IP Address	>> 192.168.14.3		Link Speed >> 11.0 Mbps	Max			
Sub Mask	>> 255.255.255.0		Throughput >> 0.192 Kbps	100.000			
Default Gateway	>> 192.168.14.1			129.680 Kbps			
			Receive				
BW >> n/a		SNRO >> n∕a	Link Speed >> 11.0 Mbps	Max			
GI >> n/a	MCS >> n/a	SNR1 >> n/a	Throughput >> 6.376 Kbps	619.344 Kbps			

#### Status

The field shows the association status to available Access Point with SSID of the Access Point.

#### **Extra Info**

Display link status in use.

#### Channel

Shows the channel on which the connection is made.

#### Link Speed

Show current transmit rate and receive rate.

#### Link Quality / Signal Strength

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

# Windows XP SP2

# **Driver Installation**

1. For installing the Wireless LAN Card driver, go to the directory where the Wireless Adapter Installation stored, then double-click the **Setup Program** 

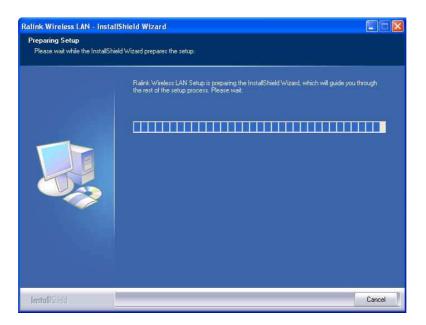


to begin the installation.

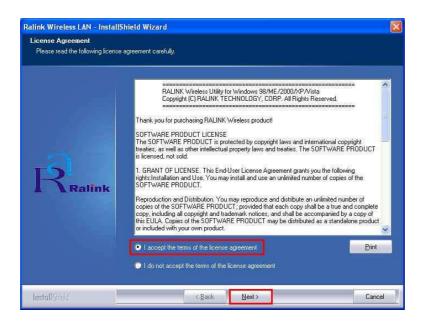
(Exsample:

IS\_AP\_STA\_RT2860\_D-1.1.0.0\_VA-2.0.2.0\_RU-2.0.7.0\_VA-2.0.8.0\_AU\_1.2.2. 0\_VA-1.0.5.0\_112607\_0.1.0.37.exe)

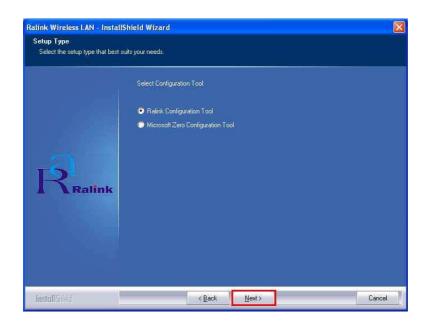
## 2. Ralink Wireless LAN Setup Wizard is preparing the setup. Please wait.



3. Ralink Wireless Network Card Setup Wizard will install the driver on your system. Select "I accept the terms of the license agreement" and then click "Next" to accept the License Agreement.



4. Click "Next" to continue.

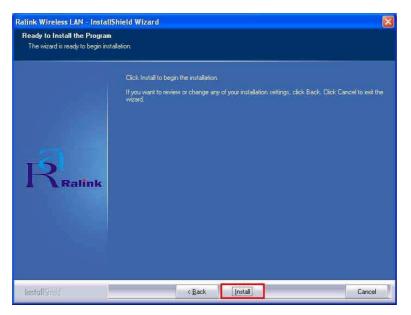


If you have installed the Windows XP Service Pack 2. You can use the
Note: Windows Zero Configuration Tool for Wireless Configuring. Please refer the Windows XP User's Guide.

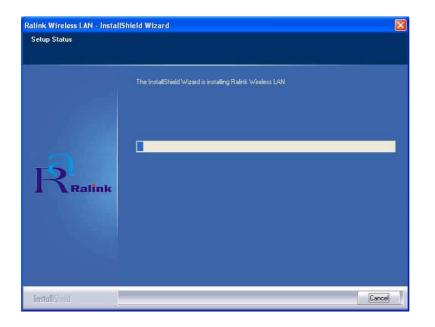
# 5. Click "**Next**" to continue.

Ralink Wireless LAN - Install	Shield Wizard		
Setup Type Select the setup type that best s	uits your needs.		
	Choose Configuration TxBurst or Wi	FI.	
	Optimize for WiFi mode		
	Optimize for performance mode.		
Ralink			
InstallShield	< <u>B</u> ack	<u>N</u> ext >	Cancel

# 6. Click "**Install**" to begin the driver installation.



7. The Ralink Wireless LAN driver is installing. Please wait.



8. The installation is now complete. Please click "Finish".

Ralink Wireless LAN - InstallSi	nield Wizard
	InstallShield Wizard Complete
	The InstallShield Wizard has successfully installed Ralink Wireless LAN. Click Finish to exit the wizard,
Ralink	
InstallShield	Kack Finish Cancel

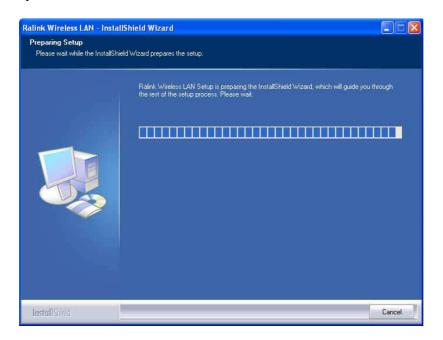
When you complete the installation, the utility icon will appear on the system tray (2000 1:05 PM). You could double-click it to configure wireless network settings.

# Uninstalling the Wireless LAN Card

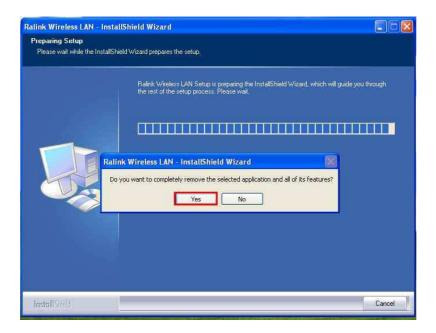
 For uninstalling the Wireless LAN Card, please go to: Start → All Programs → Ralink Wireless under Windows environment. Then click "Uninstall – RT2870".

🞒 Internet Explorer	My Documents	State of the
🗿 Outlook Express	💿 Set Program Access and Defaults	s , Silola a
🖌 Paint	😢 Windows Catalog	<b>PLAD</b> SALES
MSN	🌯 Windows Update	Assessing the
Windows Media Playe	Contraction Accessories	and the second second
Windows Messenger	🛅 Games 🔹 🕨	
🕑 Tour Windows XP	🛅 Startup 🔹	and the second s
😕 Files and Settings Tra	🥭 Internet Explorer	Las and the second
Notepad	划 MSN	and the second sec
	🗐 Outlook Express	
	💫 Remote Assistance	A CONTRACTOR OF A
	😢 Windows Media Player	and the second second
	🔏 Windows Messenger	and the second
	🚳 Windows Movie Maker	and the second se
	HyperSnap-DX	Description:
All Programs 🜔	🛗 Ralink Wireless 🔹 🕨	🤹 🥵 Ralink Wireless Utili

2. **Ralink Wireless LAN Setup Wizard** prepares to uninstall the driver on your system. Please wait.



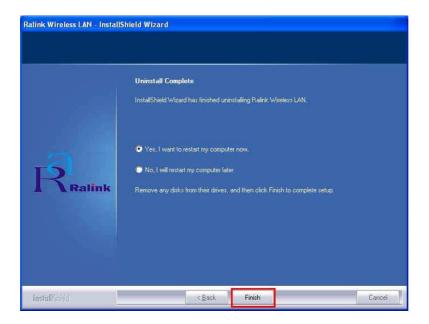
3. Click "Yes" to uninstall the Wireless LAN Card driver and utility.



4. Wait for removing the driver and utility.



5. After completing the un-installation, click "Finish" to restart your computer.



# **Configuring the Wireless LAN Card**

Double-click the utility icon in your system tray to begin the utility configuration.

# **Connecting to an existing network**

Select **Network** Tab, all available Access Points would be listed. Click on the desired Access Point, and click **"Connect"** to connect.

Profile	لمنظر Network	Advanced	) Statistics		Cos WAMA		<b>Ø</b> WPS	Radio On/Off	R	1
orted by >> (	SSID	Channe			Signal			Show dBi	m	
		ıba		List						
		10 <sup>2</sup>	P a		15%					
1220 1210		Ø5	69		39%					
3Com-IPX		<b>1</b> 1	69	~	0%					
ADSL		6	Б	1	100%					
besound		611	69	P	34%					
corega		61	Bg	7	5%					
corega		<b>\$</b> 6	<b>b</b> 9	9	0%					
dlink		11	69	9	5%					
Q1		<b>1</b> /2	69		81%					
WIFLY		<b>\$</b> 5	69		29%					
Rescan	Connect	Add to Profile	l.							
Status >> 1	WIFLY <> 00-17-	D1-FE-D3-E0					Lin	l Quatty >> 99%		I
Extra Info >> I	ink is Up [TxPowe	er;100%]					Signal	Strength 1 >> 25%		
	5 <> 2432 MHz						Signal	Strength 2 >> 24%		
Authentication >> l	230000000000						Nois	e Strength >> 26%		
Encryption >> 1										
Network Type >> I IP Address >> 8					Tra	ansmit		ihor Ma	× 1	3.)
Sub Mask >> 2						Link Speed		what what where we want the second se	^	
Default Gateway >> 8						Throughput	c >> 0,00	4.84		
	нт				Da	ceive		КБр	25	R.
BW >> n∕a		SNR0 >> n/a			, NO	Link Speed	1 >> 1.0 /	Wbps Ma	x 🔪	25
Gl >> n/a	MCS >> n/a	SNR1 >> n/a				Throughput			08	

# Configuration

• Profile

The **Profile Tab** allows you to set values for all parameters by selecting a previously defined profile. To create a profile, click Add, type a profile name and set the corresponding parameters. If one of the profiles is no longer used, you may remove it by clicking the Delete button. You can click Edit to change the exiting profile. After changing parameters, click the Activate button to take effect. You can have multiple profiles and modify the profile at any time.

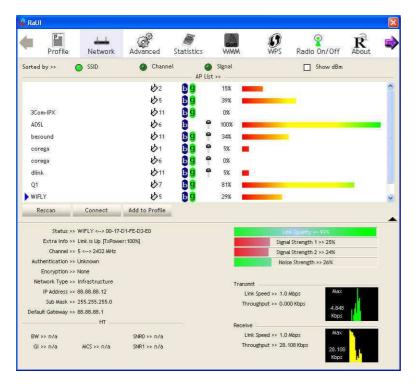


• Network

**Network** Tab lists the features of the available Access Points within range of the Wireless Adapter's signal.

Click on the desired Access Point, and click Connect to connect.

You may click Rescan to refresh the list.



#### Add to Profile

You may select an Access Point, and click Add to Profile to include it to Profile List. Under **System Config** Tab, you may set Power Saving Mode, Network Type, RTS Threshold, and Fragment Threshold.

Profile	لمطلق Network	Advanced	) Statistics	WW	W WPS	Radio On/Off	R About
orted by >>	SSID	🙆 Chann		🥥 Signal		Show dBm	
			100	.ist >>			
		102	6	15%			
		\$5	1 <mark>5</mark> 9	39%			
3Com-IPX		11	69	0%	-		
ADSL		6	0	7 100%			
besound		B11		9 34%			
corega		61	69	<b>P</b> 5%			
corega		\$6	<b>b g</b>	<b>P</b> 0%			
dlink		11	<b>b g</b>	<b>P</b> 5%			
Q1		\$7	13 9	81%			
WIFLY		105	69	29%			
Rescan	Connect	Add to Profile					
Status	>> WIFLY <> 00-17-	D1-FE-D3-E0		1	.Euro	k Quality >> 99%	
Extra Info	>> Link is Up [TxPowe	er:100%]			Signal	Strength 1 >> 27%	
	»» 5 <» 2432 MHz				Signal	Strength 2 >> 29%	
Authentication					Nois	e Strength >> 26%	
Encryption				T	ransmit	Max	
Network Type					Link Speed >> 1.07 Throughput >> 0.00	s chow	
Network Type IP Address	>> 255.255.255.0				unonSubut >> 0.00	4.848	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Network Type IP Address	»> 255.255.255.0						
Network Type IP Address Sub Mask	»> 255.255.255.0			F	eceive	Kbps	
Network Type IP Address Sub Mask	>> 255.255.255.0 >> 88.88.88.1	SNR0 >> n/a		F	leceiveLink Speed >> 1.07		

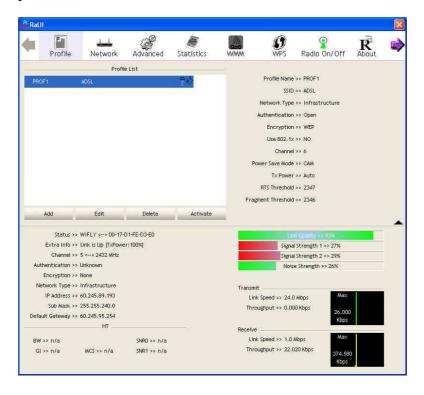
Under Auth. \ Encry. Tab, you may set Authentication Type, Encryption Type, WPA Pre-Shared Key, and Wep Key.

Click OK when you have finished the settings.

Or click Cancel to abort your new settings for Add to Profile.

🙀 RaUI							X
Profile	Network	Advanced	) Statistics	www.	<b>Ø</b> WPS	Radio On/Off	R 🔿
Sorted by >> 📀	SSID	🕜 Channel	AP List	Signal		Show dBm	
3Com-IPX ADSL besound corega corega dlink		ゆ2 ゆ5 ゆ11 ゆ6 ゆ11 ゆ1 ゆ6 ゆ11		15% 39% 0% 100% 34% 5% 0% 5%			
Q1 WIFLY Rescan	Connect	ゆ7 ゆ5 Add to Profile	69 69	81%			<b>⊻</b>
System Config Authentication WPA Preshare Wep Key		ry. 802 ▼	Encryption >>	WEP	•	802.1X	
<ul> <li>Key#1</li> <li>Key#2</li> <li>Key#3</li> <li>Key#4</li> </ul>	Hexadecim Hexadecim Hexadecim Hexadecim	nal 🔻 🗌	OK	Cancel	_	I 3	iow Password

After fishing the Add Profile, Check **Profile** Tab, you may find the new added profile in Profile List.



## • Advanced

The Configuration Utility also offers the advanced configuration for user to set the Wireless Adapter under certain network environment. These advanced options include Wireless mode, B/G Protection, Tx Rate.

🕞 Ral	JI								X
(	Profile	Network	Advanced	Statistics	www.	<b>Ø</b> WPS	Radio On/Off	<b>R</b> About	-
Wirele	ess mode >>	802.11 B/G/N m	îx 💌	Turn I	CX (Cisco Compation CCKM				
	Select Yo		Code		e Radio Measurem		ts limit, 250 mr. (		
Au	Extra Info >>					Signal S Signal S	Quality >> 100% trength 1 >> 100% trength 2 >> 100% Strength >> 26%		
	letwork Type >> IP Address >> Sub Mask >> ault Gateway >>	192.168.14.3 255.255.255.0				Speed >> 5.5 M ughput >> 0,000	Surger and State of S		
	V>> n/a il >> n/a	MCS >> n/a	SNR0 >> n/a SNR1 >> n/a		Link	Speed >> 5.5 M ughput >> 5.564			

# • Statistics

The **Statistics** Tab provides information about the Transmit and Receive frames.

🕯 RaUl	)								×
(	Profile	Network	Advanced	) Statistics	WAMA	<b>Ø</b> WPS	Radio On/Off	R About	
	Transmit	Rece	ive						
	Frames Transm	nitted Successfully			-		1	1581	
	Frames Retran	smitted Successful	v		÷.		1	1372	
	Examor Fail To	Receive ACK After	All Detvier		2			33	
					-				
	RTS Frames Suc	ccessfully Receive (	CTS					0	
	RTS Frames Fai	I To Receive CTS			=			0	
	Status >>	ADSL <> 00-A0-B0	9-37-11-05			Līnk	Quality >> 100%		-
	Extra Info >>	Link is Up [TxPowe	er:100%]				trength 1 >> 100%		
	Channel >>	6 <> 2437 MHz					Strength 2 >> 100%		
Aut	hentication >>	Open				Noise	Strength >> 26%		
	Encryption >>								
Ne		Infrastructure			Transmi	t			-0
	IP Address >>	192.168.14.3 255.255.255.0				< Speed >> 5.5 M	12 million 10 million		
Defa	SUD Mask >>				Thro	ughput >> 0.000	) Kbps 129,68	o	
Derac	in dateway 22	HT					Kbps		22
					Receive	< Speed >> 5.5 M	Max	TT.	8
	»> n/a		SNR0 >> n/a			k speed >> 5.5 W lughput >> 5.968			
GI	>> n/a	MCS >> n/a	SNR1 >> n/a		nino		619.34 Kbps	4	
							Kops		

#### • WMM

**WMM** shows WMM function includes "WMM Enable", "WMM-Power Save Enable" and "Direct Link Setup Enable".

	Profile	Hetwork	Advanced	) Statistics	NAMA	<b>Ø</b> WPS	Radio Or	n/Off	RAbout	1
NMM S	ietup Status —									
	₩₩₩ >> E	nabled	Power Save >>	Disabled			Direct	Link >> D	isabled	
[	WMM Enable	3								
	WMM	- Power Save Enal	ble							
		AC_BK	AC_BE		AC_VI	- AC_V				
		t Link Setup Enabl								
			— (— (— (— (							
		AC Address >>			Timeout Value >>	60 sec				
		Contraction of the local data				1		TO HORD		
		1				1			-	
		L						ear Down		
				_		L				
		1								
		ADSL <> 00-A0-B0	0-37-11-05				Te	ear Down		
	Status >> .	ADSL <> 00-AD-BC Link is Up [TxPowe				Lini		ear Down		
	Status >> , Extra Info >>					Lini	Te « Quality: >> 10	ar Down ox 100×		
	Status >> , Extra Info >>	Link is Up [TxPowe 5 <> 2437 MHz				Lini Signal Signal	CQuality >> 10 Strength 1 >> Strength 2 >>	ow 100%		
Auth	Status >> Extra Info >> Channel >>	Link is Up (TxPowe 5 <> 2437 MHz Open				Lini Signal Signal	Te s Quainy >> 10 Strength 1 >>	ow 100%		
Auth	Status >> Extra Info >> Channel >> entication >> (	Ltnk is Up (TxPowe 5 <> 2437 MHz Open WEP				Lini Signal Signal Nois	CQuality >> 10 Strength 1 >> Strength 2 >>	ow 100%		
Auth E Neti	Status >> , Extra Info >> Channel >> Encryption >>	Link is Up (TxPowe 5 <> 2437 MHz Open WEP Infrastructure			Transmi	Lini Signal Starvat Nois	Te < Quality >> 10 Strength 1 >> Strength 2 >> e Strength >> 2	ow 100%		
Auth E Neti	Status >> , Extra Info >> Channel >> Encryption >> work Type >>	Link is Up [TxPowe 5 <> 2437 MHz Open WEP Infrastructure 192.168.14.3			Transmi	Linn Stornal Stornal Nots It k Speed >> 5.5	Cuainy >> 10 Strength 1 >> Strength 2 >> Strength 2 >> Mbps	ear Down 0% 100% 26%		
Auth E Neti	Status >> Extra Info >> Channel >> Encryption >> IP Address >> Sub Mask >> :	Link is Up (TxPowe 5 <> 2437 MHz Open WEP Infrastructure 192.168.14.3 255.255.255.0			Transmi	Lini Signal Starvat Nois	Cuainy >> 10 Strength 1 >> Strength 2 >> Strength 2 >> Mbps	ar Elown 000 1000 26% Max 129,680		
Auth E Neti	Status >> , Extra Info >> Channel >> Encryption >> ; work Type >> IP Address >>	Link is Up [TxPowe 5 <> 2437 MHz Open WEP Infrastructure 192,168,14.3 255,255,255,0 192,168,14,1			Transmi Lini Thre	Lina Signal Nois it K Speed >> 5.5 pughput >> 0.00	Cuainy >> 10 Strength 1 >> Strength 2 >> Strength 2 >> Mbps	ox DX TODX TODX TODX TODX TODX Max		
Auth E Neti	Status >> Extra Info >> Channel >> Encryption >> IP Address >> Sub Mask >> :	Link is Up (TxPowe 5 <> 2437 MHz Open WEP Infrastructure 192.168.14.3 255.255.255.0			Transmi Lini Thrc Receive	Linn Signal Signal Nois t t k Speed >> 5.5 uughput >> 0.00	Te c. Quality +> 10 Strength 1 >> Strength >> 2 Wbps N0 Kbps	0% 100% 100% 100% 26% Max 129,680 Kbps		
Auth E Neti	Status >> Extra Info >> Channel >> Encryption >> IP Address >> Sub Mask >> :	Link is Up [TxPowe 5 <> 2437 MHz Open WEP Infrastructure 192,168,14.3 255,255,255,0 192,168,14,1			Transm Lini Thro Receive Lini	Lina Signal Nois it K Speed >> 5.5 pughput >> 0.00	CQuality >> 10 Strength 1 >> Strength 2 >> e Strength >> 2 Wbps Wbps	ar Elown 000 1000 26% Max 129,680		

# • WPS

**WPS** Tab shows the information including authentication type, encryption type, config mode, device password id, selected registrar, state, version, AP setup locked, UUID-E and RF bands.

aUI	- E T-	~B	<i>a</i>				-3
Profile	Network	Advanced	Statistics	QoS WAAAA	WPS	Radio On,	Off About
-	NCCAUTI	Advanced	WPS AP	38102007-5	111.5	rtadio oni	- Abbac
							Rescan
							Information
							Pin Code
							72219331 Renew
		WP	S Profile List				Config Mode
							Enrollee
							Detail
							Connect
							Rotate
							Disconnect
	WPS Ass	ociate IE		Progress >>	0%		Export Profile
PBC	WPS Pro	be IE					Delete
Status :	»> ADSL <> 00-A0-BI	0-37-11-05			Link	Quality >> 188	x
Extra Info :	> Link is Up (TxPowe	er; 100%]			Signal S	trength 1 >> 1	00%
	⇒ 6 <> 2437 MHz				Stenal S	trength 2 >> 1	00%
withentication :	122 / 201 B. 201 B. 10 (12 C)				Noise	Strength >> 2	5%
Encryption :	» WEP > Infrastructure						
	Intrastructure 192.168.14.3			Transmit			Max
	> 255.255.255.0				<pre>Speed &gt;&gt; 5.5 M ughput &gt;&gt; 0.000</pre>	17. and 18.	mox
	>> 192.168.14.1			Inro	aBibar >> 01000	nups	129,680
	HT			Receive		1	Kbps
W >> n/a		SNR0 >> n/a			Speed >> 5.5 M	bps	Max
Gl >> n/a	HCS >> n∕a	SNR1 >> n/a		Thro	ughput >> 4.240	Kbps	619.344 Kbps

• Radio On / Off

	<b>2</b> .	
Click the icon	Radio On/Off	to swit

to switch the radio on or off.

# • About

**About** Tab shows the product version including the detail of Configuration Utility Version, Driver Version, EEPROM Version, and NIC MAC Address.

Profile	L Network	Advanced	) Statistics	NAMA	<b>Ø</b> WPS	Radio	On/Off	R	h
	(c) Copyr	ight 2007, Ralink Te	echnology, Inc. All	rights reserved.					
	RaConfig	g Version >> 2.0.3.	0	Date	>> 08-02-2007				
	Drive	r Version >> 1.0.4.	0	Date	>> 07-28-2007				
	EEPRON	Version >> 1.2							
	Firmware	e Version >> 0.4							
	Phy	_Address >> 00-0D-	-F0-00-9A-0A						
	100 S.		WOOW DALING	TECH CON					
			WWW.RALIN	TECH.COM					
			WWW.RALIN	TECH.COM	-				
			WWW.RALIN	(TECH.COM	-				
	>> ADSL <> 00-A0-B(		WWW.RALINE	ITECH.COM		Quality >>			
Extra Info ×	>> Link is Up [TxPowe		WWW.RALIN	(TECH.COM					
Extra Info > Channel >	>> Link is Up [TxPowe >> 6 <> 2437 MHz		WWW.RALIN	ITECH. COM	Stenal Stenal	Strength 1 Strength 2	>> 100% >> 100%		
Extra Info > Channel > Authentication >	>> Link is Up [TxPowe >> 6 <> 2437 MHz >> Open		WWW.PALIN	(TECH.COM	Stenal Stenal		>> 100% >> 100%		
Extra Info × Channel × Authentication × Encryption ×	>> Link is Up [TxPowe >> 6 <> 2437 MHz >> Open >> WEP		WWW.PALIN		Signal Signal Noise	Strength 1 Strength 2	>> 100% >> 100%		
Extra Info × Channel × Authentication × Encryption × Network Type ×	>> Link is Up [TxPowe >> 6 <> 2437 MHz >> Open		WWW.PALIN	Transmit	Stepial Stepial Noise	Strength 1 Strength 2 a Strength a	>> 100% >> 100%		
Extra Info > Channel > Authentication > Encryption > Network Type > IP Address >	>> Link is Up [TxPowe >> 6 <> 2437 MHz >> Open >> WEP >> Infrastructure		WWW.RALIN	Transmit Link	Stenal Sienal Noise t Speed >> 11.0	Strength 1 Strength 2 a Strength a Mbps	>> 100% >> 100% >> 26% Max		
Extra Info > Channel > Authentication > Encryption > Network Type > IP Address > Sub Mask >	<pre>&gt;&gt; Link is Up [TxPowe &gt;&gt;&gt; 6 &lt;&gt; 2437 MHz &gt;&gt;&gt; Open &gt;&gt;&gt; WEP &gt;&gt;&gt; Infrastructure &gt;&gt; 192.168.14.3 &gt;&gt;&gt; 255.255.0</pre>		WWW.RALIN	Transmit Link	Stepial Stepial Noise	Strength 1 Strength 2 a Strength a Mbps	** 100% ** 100% ** 26% Max 129,680	,	
Extra Info > Channel > Authentication > Encryption > Network Type > IP Address >	<pre>&gt;&gt; Link is Up [TxPowe &gt;&gt;&gt; 6 &lt;&gt; 2437 MHz &gt;&gt;&gt; Open &gt;&gt;&gt; WEP &gt;&gt;&gt; Infrastructure &gt;&gt; 192.168.14.3 &gt;&gt;&gt; 255.255.0</pre>		WWW.PALIN	Transmi Link Thro	Signal Signal Noise t Speed >> 11.0 ughput >> 0.19	Strength 1 Strength 2 a Strength a Mbps	>> 100% >> 100% >> 26% Max		
Extra Info > Channel > Authentication > Encryption > Network Type > IP Address > Sub Mask >	<ul> <li>&gt;&gt; Link is Up [TxPowe</li> <li>&gt;&gt; 6 &lt;-&gt; 2437 MHz</li> <li>&gt;&gt; Open</li> <li>&gt;&gt;&gt; WEP</li> <li>&gt;&gt; Infrastructure</li> <li>&gt;&gt;&gt; 192.168.14.3</li> <li>&gt;&gt;&gt; 255.255.255.0</li> <li>&gt;&gt;&gt; 192.168.14.1</li> </ul>		WWW.PALIN	Transmit Link Thro Receive	Signal Signal Noise t Speed >> 11.0 ughput >> 0.19	Strength 1 Strength 2 a Strength 3 Mbps 2 Kbps	** 100% ** 100% ** 26% Max 129,680		

## • Link Status

Status >> ADSL <> 00-A0-B0-37-11-05		Link Quality >> 100%			
Extra Info >> Link is Up [TxPower:100%]		Signal Strength (1>> 100x			
Channel >> 6 <> 2437 MHz		Stighted Strendstring > + 1080%			
Authentication	Authentication >> Open		Noise Strength >> 26%		
Encryption	>> WEP				
Network Type	>> Infrastructure		Transmit		
IP Address	>> 192.168.14.3		Link Speed >> 11.0 Mbps	Max	
Sub Mask	>> 255.255.255.0		Throughput >> 0.192 Kbps	100.000	
Default Gateway	>> 192.168.14.1			129.680 Kbps	
	HT		Receive		
BW >> n/a		SNRO >> n∕a	Link Speed >> 11.0 Mbps	Max	
Gl >> n/a	MCS >> n/a	SNR1 >> n/a	Throughput >> 6.376 Kbps	619.344 Kbps	

#### Status

The field shows the association status to available Access Point with SSID of the Access Point.

#### **Extra Info**

Display link status in use.

#### Channel

Shows the channel on which the connection is made.

#### Link Speed

Show current transmit rate and receive rate.

#### Link Quality / Signal Strength

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

# 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.

**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 <u>transmitter</u> 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</u> <u>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:RUJ-Q802XKN".

# 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.

# For NCC 警語

- ★ 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。

#### Note:

- 1. 本模組於取得認證後將依規定於模組本體標示審驗合格標籤
- 2. 系統廠商應於平台上標示「本產品內含射頻模組: ₩XXXyyyLPDzzzz-x」字樣