802.11B/G/N PCI WIRELESS ADAPTER User's Manual

1 Install the driver

a Insert the installation CD into your CD-ROM driver, Double click the icon



b. Select "I accept the terms of license agreement".

Ralink Wireless LAN - InstallSh	ield Wizard	×
License Agreement		
Please read the following licen	se agreement carefully.	
Ralink	ALUNK Wireless Utility for Windows 98/ME/2000/XP/Vista Copyright (C) RALINK TECHNOLOGY, CORP. All Rights Reserved. Thank you for purchasing RALINK Wireless product! SOFTWARE PRODUCT LICENSE The SOFTWARE PRODUCT is protected by copyright laws and international copyright teaties, as well as other intellectual property laws and treaties. The SOFTWARE PRODUCT is licensed, not sold. 1. GRANT OF LICENSE. This End-User License Agreement grants you the following rights:Installation and Use. You may install and use an unlimited number of copies of the SOFTWARE PRODUCT. Reproduction and Distribution. You may reproduce and distribute an unlimited number of copy, including all copyright and trademark notices, and shall be accompanied by a copy of this EULA. Copies of the SOFTWARE PRODUCT is 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 SOFTWARE PRODUCT may be distributed as a standalone product or included with your own product. I gloent the terms of the license agreement	
InstallShield	< <u>B</u> ack <u>N</u> ext > Cance	əl

c Choose Install driver and Ralink WLAN Utiliy and click next to go on



d Choose Ralink Condiguration tool and click next to go on

Ralink Wireless LAN - InstallSh	ield Wizard				×
Setup Type Select the setup type that best	suits your needs.				
	Select Configuration	on Tool.			
	오 Ralink Configu 🎯 Microsoft Zero	ration Tool Configuration Too	bl		
Ralink					
InstallShield		< <u>B</u> ack	<u>N</u> ext >		Cancel
Please wait	2				

f Click *Finish* to end the setup

alink Wireless LAN - InstallShi	eld Wizard
and the second	InstallShield Wizard Complete
	The InstallShield Wizard has successfully installed Ralink Wireless LAN. Click Finish to exit the wizard.
Ralink	
Instal Shield	< Back Finish Cancel

2 Plug in your usb wireless LAN adapter, it will be recognized and auto installed. Just confirmed it like below.

3 Make infrastructure connection

Double click the icon in red circle



You will see:



SSID	BSSID	Sig	C	Encrypt	Authent	Network T
22	00-0C-20-03-41	10	1	None	Unknown	Infrastruct
			1			
	_					
4	-		1	2		

You can click the button *Rescan* to find which AP is in range, they will show on the window, choice one you want to connect, and click the button *connect*, and click *ok* to finish the connection operation.

An infrastructure connection is accomplished.

Note, please choose correct channel setting up to your law, for example, ch13 is permitted in your country, and you set your router at ch13, while you choose ch1-ch11 (default setting), you will never find the AP, and you will have to choose ch1-ch13 setting in *Advanced* page as below

诸 Ralink Wireless Utility	
Profile Link Status Site Survey	Statistics Advanced About
Wireless mode 802.1	Select Your Country Region Code
B/G Protection Auto	CCX 2.0
Tx Bate Auto	LEAP turn on CCKI 5: CH1-14 E-CH3-9
T × BURST Enable TCP Window Size	Enable Radio Measurement Non-Serving Channel Measurements Limit 250 milliseconds (0-2000)
Turn off RF	
	OK Help

4 Some help information in *Rlink Wireless Utility* How to find out your IP address:

R	WWW.F	ALINKTECH.COM		
(c) Copyrigh	nt 2004, Ralink Technolo	igy, Inc. All rights re	served.	
RaConfig V	'ersion : 1.0.6.0	Date : 0	17-20-2005	
Driver Vers	ion : 1.0.1.0	Date : 0	17-01-2005	
EEPROM \	/ersion : 1.0			
IP Address	: 192.168.1.17	> Phy_Address :	00-E0-4C-A0-33	-68
Sub Mask :	255.255.255.0	Default Gatew	ay 192.168.1.1	x

How to find out which a WIFI environment you are inside

Status :	yyy <> UU	-00-20-03-41	-52		
Extra Info :	Link is Up	TxPower:10	0%]	Channel : 1 <>	2412000 KHz
Link Speed :	Tx (Mbps)		54.0	Rx (Mbps)	54.0
Throughput :	Tx (Kbps)	Г	0.1	Rx (Kbps)	5.5
Link Quality :	Good	100%			dBm
Signal Strength :					
Noise Level :	Strong	100%			

Status :	ууу <> ОО)-0C-20-03-41-	32		
Extra Info :	Link is Up	[TxPower:100	%]	Channel : 1 <>	2412000 KHz
Link Speed :	Tx (Mbps)		54.0	Rx (Mbps)	54.0
Throughput :	Tx (Kbps)		0.0	Rx (Kbps)	5.2
Link Quality :	Good	100%			
En int of dointy .	Good	-30 dBm			
Signal Streng	th:				
Noise Level :	Strong	-47 dBm			

5 Make Ad-Hoc mode connection

Α

Profile List						
Profile Name	SSID	Channel	Authentication	Encryption	Network Ty	
					-	
			· · · · · · · · · · · · · · · · · · ·			

6

A	dd Profile
	Configuration Authentication and Security
	Profile Name PROF2 SSID
	PSM CAM (Constantly Awake Mode) PSM (Power Saving Mode)
	Network Type Infrastructure TX Power Auto Ad hoc Preamble Infrastructure
	BTS Threshold 0 2347 2347
	□ Fragment Threshold 256 \ 2346 2346
в _	OK Cancel Apply Help

Profile Name	2			
	2	SSID	2	
PSM				
CAM (Constantly Av	vake Mode)	C PS	SM (Power Saving	Mode)
Network Type	d hoc	TX Pov	ver Auto	
	to	Ad hoc	wireless 802.1	1 B/G mix
RTS Threshold	<u> </u>		\ ²³⁴⁷ 23	47 Channel
	256 +		(2346 23	46 1
J• Hagment Threshold				

		(
Profile Name	SSID	Channel	Authentication	Encryption	Network Ty
PROF1	zina	1	Open	None	Ad hoc
-		· · ·			

5.2 Setup static IP address for the Ad-Hoc link

A At its property page, double click item *Internet Protocol (TCP/IP)*



B You will get

net Protocol (TLP/IP) Properti	25			
ou can get IP settings assigned autor is capability. Otherwise, you need to e appropriate IP settings.	natically if y ask your ne	vour ne etwork	twork sı adminis	upports trator fo
Obtain an IP address automatica	lly			
Use the following IP address: —				
<u>I</u> P address:			-35	
S <u>u</u> bnet mask:		¥0	- 20	
Default gateway:		-	.22	
C Obtain DNS server address auto	maticallu			
 Use the following DNS server ad 	dresses:			
Preferred DNS server:	· ·		•22	
<u>A</u> lternate DNS server:			•32	
			6 du	anced
				ancea.
	1.66			

C Fill the IP address blank, example as below:

ternet Protocol (TCP/IP)	Properties ?
General	
You can get IP settings assig this capability. Otherwise, you the appropriate IP settings.	ned automatically if your network supports u need to ask your network administrator for
Obtain an IP address a	utomatically
☐ Use the following IP ac	ldress:
<u>I</u> P address:	192.168.1.1
S <u>u</u> bnet mask:	
Default gateway:	
C Obtain DNS server add	tress automatically
☐● Use the following DNS	server addresses:
Preferred DNS server:	
Alternate DNS server:	3.0 × 0 × 0
L	
	Ad <u>v</u> anced
	OK Canad

D Click *ok* to finish the setup

THE DEPUTY SALLE	less I AN Card V2 #10	
		-
		<u>C</u> onfigure
mponents chec	ked are used by this cor	nnection:
🛛 📇 Client for h	Microsoft Networks	
🛾 📇 File and P	rinter Sharing for Microso	oft Networks
AEGIS Pro	otocol (IEEE 802.1x) v3.4	4.3.0
	rotocol [TCP/IP]	
install	<u>U</u> ninstall	P <u>r</u> operties
<u>Install</u>	Uninstall	P <u>r</u> operties
<u>Install</u> Description Transmission C	ontrol Protocol/Internet F	Protocol. The default
Install Description Transmission C wide area netw across diverse	ontrol Protocol/Internet F interconnected networks	Properties Protocol. The default is communication
Install Description Transmission C wide area netw across diverse	ontrol Protocol/Internet Protocol I LP/IP	Properties Protocol. The default is communication

5.3 Ad-Hoc setup for one point accomplished

5.4 Setup another Ad-Hoc point as step A,B,C,D.

5.5 Ad-Hoc mode link accomplished. And you can visit each other.

Note: To make an Ad-Hoc mode link, Do remember to choice the same channel, its static IP address should be in the same netsub, and the SSID should be the same too.

FCC Warning:

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

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.

NOTE: All Telecom and safety Tests only include this content hardware device only.

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 a minimum distance of about eight inches (20cm) between the radiator and your body.

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

Modular Approval Statement:

This device is intended to be used only for OEM integrator 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. IMPORTANT NOTE:

In the event that these conditions cannot be met (for example certain laptop configurations or co-location with another transmitter), then the FCC authorization is no longer considered valid and the FCC ID cannot 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.