Ralink USB Wireless LAN Adapter User's Manual

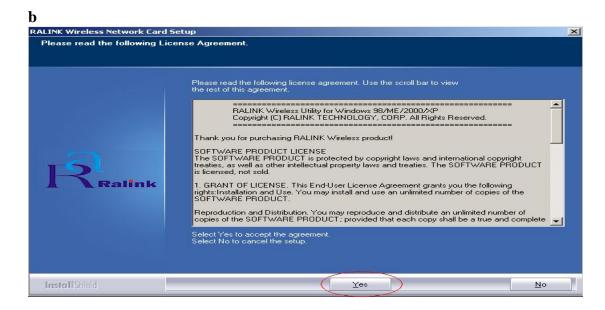
1 Install the driver

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

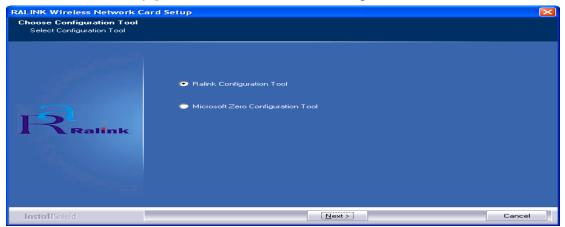


IS_STA_7x_D73-1.0.1.0_D25... Setup.exe InstallShield Software Corpora..

to start setup



c Choose Ralink Configuration Tool and click next to go on



d Choose Optimize for WiFi mode and click next to go on

RALINK Wireless Network Car	d Setup	
Choose Configuration TxBurst Choose Configuration TxBurst or V		
Ralink	 Optimize for WiFi mode Optimize for performance mode 	
InstallShield	[<u>Next></u>]	Cancel



f Click Finish to end the setup

RALINK Wireless Network Ca	rd Setup
	Setup has finished installing
	RT7x Wireless LAN Card Setup is almost complete.
Ralink	Click Finish to complete RT7x Wireless LAN Card Setup.
InstallShield	Erish

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



SSID	BSSID	Sig	C	Encrypt	Authent	Network T
2 zioncom	00-0C-20-03-41 00-0C-20-03-13	10 29%	1	None	Unknown Unknown	Infrastruct. Infrastruct.
		i				
	_		-			
		-				
			1			

- 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

🞼 Ralink Wireless Utility	
Profile Link Status Site Survey Statistics	Advanced About
Wireless mode 802.11 B/G mix	▼ Select Your Country Region Code 11 B/G 1: CH1-13 ▼ 0/CCH1-11 1: CH1-13
B/G Protection Auto	CCX 2.0 (3: CH10-11 3: CH10-13 4: CH10-13 4: CH10-13 4: CH10-13 4: CH10-13
T × Rate Auto •	Enable Radio Measurement Non-Serving Channel Measurements Limit 250 milliseconds (0-2000)
Fast Roaming at -70 dBm	
	OK Help

4 Some help information in Rlink Wireless Utility

• How to find out your IP address:

K	WWW.RAL	INKTECH.CO	IM I
(c) Copyright 2004,	Ralink Technology	, Inc. All right	s reserved.
RaConfig Version :	1.0.6.0	Date :	07-20-2005
Driver Version :	1.0.1.0	Date :	07-01-2005
EEPROM Version :	1.0		
	192.168.1.17	Phy_Addre	ss : 00-E0-4C-A0-33-68
Sub Mask :	255,255,255,0	Default Gat	teway 192.168.1.1

• How to find out which a WIFI environment you are inside

Status :	yyy <> 00-	06-20-03-41	25/2			
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)		0.1	Rx (Kbps)		5.5
Link Quality :	Good	100%				
LINK Quality .	Good	100%			dBm	
Signal Strength :						
Noise Level :	Strong	100%				
k Wireless Utili			1		ок	He
Link Status S	ite Survey S	100		About]	ОК	He
		100		•		
Link Status S	ite Survey S	0C-20-03-41	-32	About] Channel : [1 <-		
Link Status S	ite Survey S	0C-20-03-41	-32	•		I KHz
Link Status Si Status : Extra Info :	ite Survey S yyy <> 00- Link is Up [0C-20-03-41	-32	Channel : 1 <-		1 KHz 54.0
Link Status Si Status : Extra Info : Link Speed : Throughput :	ite Survey S yyy <> 00- Link is Up [Tx (Mbps)	0C-20-03-41	-32 0%] 54.0	Channel : 1 <- Rx (Mbps)		1 KHz 54.0
Link Status Si Status : Extra Info : Link Speed :	ite Survey S yyy <> 00- Link is Up [T× (Mbps) T× (Kbps) Good	0C-20-03-41 TxPower:10	-32 0%] 54.0	Channel : 1 <- Rx (Mbps)	-> 2412000	1 KHz 54.0
Link Status Si Status : Extra Info : Link Speed : Throughput : Link Quality :	ite Survey Si yyy <> 00- Link is Up [Tx (Mbps) Tx (Kbps)	0C-20-03-41 TxPower:10	-32 0%] 54.0	Channel : 1 <- Rx (Mbps)		1 KHz 54.0
Link Status Si Status : Extra Info : Link Speed : Throughput :	ite Survey S yyy <> 00- Link is Up [T× (Mbps) T× (Kbps) Good	0C-20-03-41 TxPower:10	-32 0%] 54.0	Channel : 1 <- Rx (Mbps)	-> 2412000	1 KHz 54.0
Link Status Si Status : Extra Info : Link Speed : Throughput : Link Quality :	ite Survey S yyy <> 00- Link is Up [T × (Mbps) T × (Kbps) Good Good	0C-20-03-41 T×Power:10	-32 0%] 54.0	Channel : 1 <- Rx (Mbps)	-> 2412000	He KHz 54.0 5.2
Link Status Si Status : Extra Info : Link Speed : Throughput : Link Quality : Signal Strength :	ite Survey S yyy <> 00- Link is Up [T × (Mbps) T × (Kbps) Good Good	0C-20-03-41 T×Power:10	-32 0%] 54.0	Channel : 1 <- Rx (Mbps)	-> 2412000	1 KHz 54.0

5 Make Ad-Hoc mode connection

• 5.1 Make an Ad-Hoc SSID

	P	ofile Link Status Site Survey Statistics Advanced About
		Profile Name SSID Channel Authentication Encryption Network Ty
		Add Delete Edit Activate
		Add Delete Edit Activate
		or 1 us
Α		OK Help
		Profile
		Ingulation Authentication and Security
		Profile Name PROF2 SSID
		PSM
		CAM (Constantly Awake Mode) PSM (Power Saving Mode)
		Network Type Infrastructure TX Power Auto
		Preamble Infrastructure
		BTS Threshold O 2347 2347
		Fragment Threshold 256 2346 2346
В		OK Cancel Apply Help
Б		
	Ade	Profile
	C	nfiguration Authentication and Security
		Profile Name PROF2 SSID zion
		PSM
		CAM (Constantly Awake Mode) O PSM (Power Saving Mode)
		Network Type Ad hoc TX Power Auto
		Preamble Auto Micess 802.11 B/G mix
		BTS Threshold 0 2347 2347 Channel
		✓ Fragment Threshold 256 2346 2346 1
0	-	OK Cancel Apply Help
С	100	
		alink Wireless Utility
		· · · · · · · · · · · · · · · · · · ·
		ofile Link Status Site Survey Statistics Advanced About
		Profile List Profile Name SSID Channel Authentication Encryption Network Ty
		PROF1 zion 1 Open None Ad hoc
		Add Delete Edit Activate
		Add Delete Edit Activate

• 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

 \triangleright

eneral					
You can get IP settings assig his capability. Otherwise, you he appropriate IP settings.					
Obtain an IP address a	utomatically				
 Use the following IP ad 	dress:				
IP address:	L			-12	1
S <u>u</u> bnet mask:		194	90		1
Default gateway:		5.0	2.1	- 272	1
Obtain DNS server add Obtain DNS server add Obtain DNS server: Preferred DNS server: Alternate DNS server:				•20 •20	1
				Adva	nced

C Fill the IP address blank, example as below:

rnet Protocol (TCP/IP) Pr	roperties ?
neral	
	ed automatically if your network supports need to ask your network administrator for
C Obtain an IP address aut	omatically
Use the following IP addr	iess:
IP address:	192.168.1.1
S <u>u</u> bnet mask:	(255.255.255.0)
Default gateway:	
C Obtain DNS server addre	ess automatically
• Use the following DNS set	erver addresses:
Preferred DNS server:	
<u>A</u> lternate DNS server:	200 00 000
	Ad <u>v</u> anced
	OK Cancel

> D Click *ok* to finish the setup

	ess LAN Card V2 #10	
		Configure
omponents check	ed are used by this conne	ection:
🗹 📇 Client for Mi	crosoft Networks	
🖉 🚐 File and Prir	nter Sharing for Microsoft	Networks
AEGIS Prot	ocol (IEEE 802.1x) v3.4.3	3.0
Internet Pro		
		Properties
🗹 🍯 Internet Pro	tocol (TCP/IP)	
Internet Pro <u>Install</u> Description Transmission Cor	tocol (TCP/IP)	Properties
✓ Internet Pro Install Description Transmission Cor wide area network	tocol (TCP/IP)	Properties
Internet Pro Install Description Transmission Cor wide area networ	tocol (T CP/IP)	Properties

- 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.

FEDERAL COMMUNICATIONS COMMISSION (FCC) 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 or more 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.

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

(2)This device must accept any interference received, including interference that may cause undesired operation.

FCC RF RADIATION EXPOSURE STATEMENT:

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.

IMPORTANT NOTE:

This device has been tested for compliance with FCC RF Exposure (SAR) limits in the typical laptop computer configuration and this device can be used in desktop or laptop computers with side mounted USB slots. This device and its antenna must not be co-located or operated in conjunction with any other antenna or transmitter.