DIGITUS®

WIRELESS 150N USB 2.0 ADAPTER



DN-70440-1 Rev.2

DN-7042-1 Rev.3

Manual DN-70440-1 Rev.2 • DN-7042-1 Rev.3

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Safety Precautions

- Only use the device(s) within the specified temperature range for: 0 ~ 40°C
- When not in use, store the product in a clean and dry place in temperatures between 0°C and 40°C
- Do not let the indoor devices come into contact with liquids
- Ensure that the indoor devices are only used inside. These devices are not intended for outdoor use and would be damaged
- During thunderstorms, there is a danger of lightning strike and due to overvoltage damage to connected electrical appliances
- Do not install the product during a thunderstorm
- Disconnect the product from power source during a thunderstorm
- Keep the devices outside the reach of children, since these components can be dangerous
- Never try to repair the device by yourself. Repair and maintenance work must be carried out by specialists
- In case of problems contact our customer service
- Dust, humidity and vapours as well as sharp cleaning agents or solvents

can damage the product

- Disconnect the product from the power source before cleaning
- Clean the product with a slightly damp, lint-free cloth

Chapter 1. Introduction

Thank you for purchasing the wireless 802.11b/g/n USB adapter! This adapter is mini size design and you are able to plug it into the USB port. Excepting common wireless standards 802.11b/g, this wireless adapter is also 802.11n compatible - data transfer rate is 150/300Mbps, and that's three times faster than 802.11g wireless network.

1.1 Product Features

- ◆ Complies with IEEE 802.11n, IEEE 802.11g and IEEE 802.11b standards
- Provides USB2.0 port
- Provides 150/300Mbps receiving rate and 150/300Mbps sending rate
- Supports 20MHz/40MHz frequency width

- Auto-detects and changes the network transmission rate
- Provides two work modes: Infrastructure and Ad-Hoc
- Supports Soft AP to establish your wireless LAN networking
- Supports 64/128-bit WEP, WPA, WPA2 encryption methods and 802.1x security authentication standard
- Supports WPS (Wi-Fi Protected Setup) encryption method to free you from remembering long passwords
- Easy-to-install, plug and play
- Supports Windows XP/VISTA/Win7/ Win8/Linux/Macintosh

1.2 Package contents

The following contents should be found in your box:

- One Wireless 802.11b/g/n USB adapter
- One CD (include driver/utility/user manual)

Note: If any of the listed contents are damaged or missing, please contact the retailer from whom you purchased the product for assistance.

1.3 Indicator Description

There is a LED indicator blinking when data communication is going on.

CHAPTER 2: Quick Installation Guide

This chapter is to assist you how to use the included CD-ROM which comprises the Driver and the Client Utility Interface.

2.1 Driver Installation

Please follow the following instructions to install your new wireless USB Adapter:

2.1.1

Insert the USB wireless network card into an empty USB 2.0 port of your computer when computer is switched on. Never use force to insert the card, if you feel it's stuck, flip the card over and try again.

2.1.2

The following message will appear on your computer, click '<u>Cancel / Close</u>'. Under Windows XP



Under Windows Vista and Windows 7

U Driver Software Installation		X
Installing device driver so	oftware	
802.11 n WLAN	Waiting for user input	
802.11 n WLAN		Close

2.1.3

Insert the driver CD into your CD-ROM. You can see autorun screen below. if not, you can double click '*autorun.exe*' on CD.

	- ×
Install Driver	
Install Driver	
User Manual	
Exit	

Click 'Install Driver' to start the installation procedure

2.1.4

Please select the language you wish to use, then click '<u>Next</u>'.

hoose Setup Language Select the language for the install	ation from the	choices belo	w.		
Basque Bulgarian Catalan Chinese (Simplified) Chinese (Traditional) Croatian Czech Danish Dutch					
English Finnish French (Canadian) French (Standard) German Greek					~
allShield		< Back	Next >	Can	cel

2.1.5

Installation descriptions shown. Click 'Next' to continue



2.1.6

Once the installation is finished the computer will be asked to reboot. you can click '**<u>Finish</u>**' and reboot the computer to finish the installation of driver files.



2.1.7

A new icon will appear near the clock of system tray:



Left-click the icon will launch wireless network configuration utility, and you can right-click the icon to show the quick menu of configuration utility. This icon also uses different color to show the status of wireless connection:



Wireless connection is established, good signal reception.

Wireless connection is established, weak signal reception.



Connection is not established yet.



Wireless network card is not detected.

For detailed instructions of wireless network configuration utility, please see next chapter.

2.2 Connect to Wireless Access Point

To use wireless network, you have to connect to a wireless access point first. You can either use Client utility (comes with network card driver), or Windows Zero Config utility (comes with Windows operating system).

2.2.1 Using Client Utility

Please follow the following instructions to use Client configuration utility to connect to wireless access point.

1. Left-click the Client configuration utility icon located at lower-right corner of computer desktop, and configuration menu will appear:

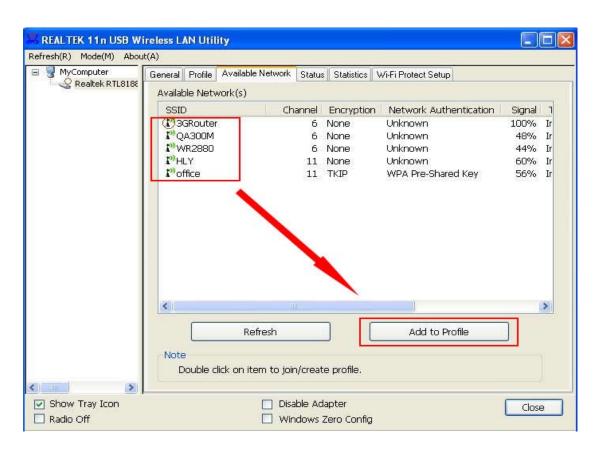


HERE!

2. Wireless utility will appear. Click '<u>Available Network</u>' menu to search for wireless access points nearby.

REALTEK 11n USB W	ireless LAN Utili	ity				
Refresh(R) Mode(M) Abou	it(A)					
🖃 😼 MyComputer	General Profile	Available Network Statu:	s Statistics V	Vi-Fi Protect Setup		
Realtek RTL818	Available Netw	vork(s)				
	SSID	Channel	Encryption	Network Authentication	Signal	1
	C 3GRouter	6	None	Unknown	100%	Ir
	🕻 🖓 QA300M	6	None	Unknown	48%	Ir
	1 ³⁰ WR2880	6	None	Unknown	44%	Ir
	1 ³⁰ HLY	11	None	Unknown	60%	Ir
	I [™] office	11	TKIP	WPA Pre-Shared Key	56%	Ir
	<					2
	Note	Refresh		Add to Profile		Y
		lick on item to join/creat	te pronie.			
Show Tray Icon Radio Off		Disable Ac	lapter Zero Config		Clos	•

3. Please wait for a while, and all wireless access points which can be reached by this wireless network card will be displayed here.



If the wireless access point you wish to connect does not appear here, you can click '**<u>Refresh</u>**' button to scan for wireless access points again; if the wireless access point you're looking for still not appear, try to move the computer closer.

When the access point you're looking for is on the list, left-click it and then double click it or click '**Add to Profile**'.

4. If a password (a.k.a. 'Network Key') is required to access the wireless access point, please input it in '<u>Network key</u>' (and input it again in '<u>Confirm</u> <u>network key</u>' for confirmation). Click '<u>OK</u>' when password is properly inputted.

NOTE: Network security type ('<u>Network Authentication</u>' and '<u>Data</u> <u>encryption</u>') will be selected automatically based on wireless access point's security setting. It's not required to change these settings by yourself.

Wireless Network Properties:	
Profile Name: Office	802.1x configure
Network Name(SSID): Office	EAP TYPE :
	GTC
	Tunnel : Privision Mode :
This is a computer-to-computer (ad hoc) network; wireless access points are not used.	
Channel: 11 (2462MHz)	Username :
Wireless network security	
This network requires a key for the following:	Identity :
Network Authentication: WPA-PSK	
Data encryption: TKIP	Domain :
	Password :
Key index (advanced): 1	Certificate :
Network key:	
	PAC : Auto Select PAC
Confirm network key:	
OK Cancel	

All options in this page will be filled automatically according to the access point you wish to add to profile. However, you can still modify any of them to meet your requirement.

Profile name	You can give a name to this profile, so you can remember its purpose easily. It can be any phrase to help you remember.
Network Name (SSID)	The SSID (Service Set IDentifier, i.e. access point's name). This field will be filled as the access point you selected when SSID is not hidden and grayed out. If SSID is hidden, you have to input correct SSID you yourself.
This is a computer-to-computer (ad hoc) network	Check this box if you wish to connect to another computer / network device by ad hoc method. When not accessing to wireless access point, you have to check this box.
Channel	Select wireless channel for ad hoc connection. This option only appears when you're using ad hoc connection.
Network Authentication	Select the network authentication type from drop-down menu. This setting must be identical with the setting of wireless access point you with to connect.

Data encryption	Select the data encryption type from drop-down
	menu. This setting must be identical with the setting
	of wireless access point you with to connect.
ASCII / PASSPHRASE	When the encryption type is 'WEP', it's required to
	input a set of 'passphrase' to connect to wireless
	access point. Check 'ASCII' or 'PASSPHRASE'
	depends on the security setting of access point,
	and input it in the box; if you select 'PASSPHRASE'
	you also need to select the length of the key.
	The passphrase must be identical with the setting
	of wireless access point you with to connect.
Key index	Select WEP key index. For most of access points
	you can select '1', but please refer to the setting of
	the access point.
Network key / Confirm	When the encryption type is 'WPA' or 'WPA2-PSK',
network key	it's required to input a set of 'passphrase' to connect
	to wireless access point. Please input the same
	passphrase in two boxes for confirmation.
EAP TYPE / Tunnel /	When authentication type is any of 802.1X, you
Provision Mode	have to select EAP type, tunnel, and provision
	mode from dropdown menu. This setting must be
	identical with your 802.1x authentication server.
Username / Identity /	Please input 802.1x related authentication
Domain / Password	information here.
Certificate	If certification is required to authenticate with
	802.1x authentication server, please select a local
	certificate from dropdown list.
PAC	Check this box and PAC (Privilege Access
	Certificate) will be automatically selected.
	-

Please click '**OK**' when ready.

5. Network card will attempt to connect to access point now, this may require few seconds to minutes, please be patient. When the '<u>Status</u>' become '<u>Associated</u>', your computer is connected to access point you selected. Click '<u>Close</u>' to close configuration menu.

REALTEK 11n USB Wi	ireless LAN Utility 📃 🗖 🔀
Refresh(R) Mode(M) Abou	t(A)
🖃 🦉 MyComputer	General Profile Available Network Status Statistics Wi-Fi Protect Setup
	Status: Associated
	Speed: Tx:72 Mbps Rx:72 Mbps
	Type: Infrastructure
	Encryption: None
	SSID: 3GRouter
	Signal Strength: 100%
	Link Quality:
	Network Address:
	MAC Address: 00:E0:4C:00:00:13
	IP Address: 0.0.0.0 Subnet Mask: 0.0.0.0
	Gateway:
	ReNew IP
< <u>></u>	
Show Tray Icon Radio Off	Disable Adapter Close Vindows Zero Config

NOTE: If you connected to an access point but the connection has been dropped soon, please check security settings and re-check password spelling.

2.2.2 Using Windows Zero Configuration

Windows XP and Vista has a built-in wireless network configuration utility, called as '**Windows Zero Configuration**' (WZC). You can also use WZC to configure your wireless network parameter:

1. Right-click Client configuration utility icon, and click '**Open Config <u>Utility</u>**'.

Open Config Utili	y i
About	and a
Hide	sar fin
Quit	and the second se

2. Check '<u>Windows Zero Config</u>' box.

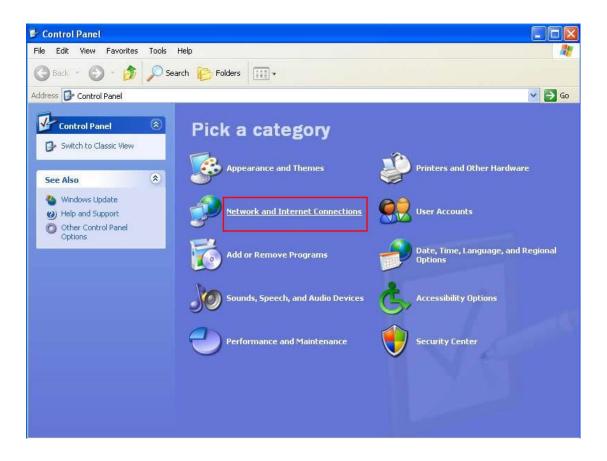
	it(A)						
MyComputer	General Profile	Available Network	Statu:	Statistics	Wi-Fi Protect Setup		
Realtek RTL8188	Available Netv	vork(s)					
	SSID	Ch	annel	Encryption	Network Authentication	Signal	٦
	C 3GRouter	•	6	None	Unknown	100%	Ir
	CA300M		6	None	Unknown	48%	Ir
	1 ²⁹ WR2880		6	None	Unknown	44%	Ir
	1 ³⁰ HLY		11	None	Unknown	60%	Ir
	I [™] office		11	TKIP	WPA Pre-Shared Key	56%	Ir
	<						>
		Refresh			Add to Profile		>
	Note) (Add to Profile		>

3. A message indicating that you've been switched to Windows Zero.

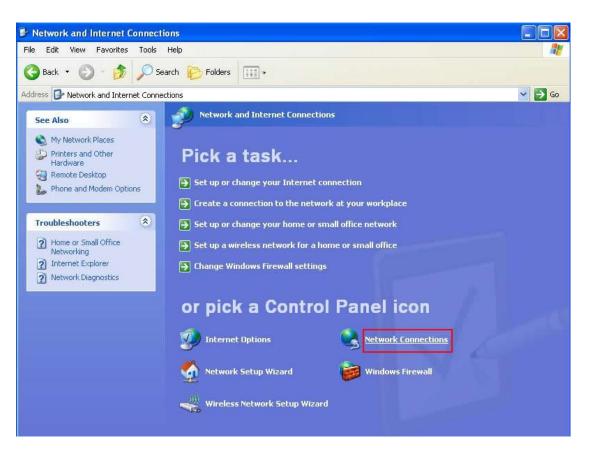
Window	vs Zero Config	
(į)	You are in Windows Zero (Config mode !!
	ОК	

NOTE: To return to use Client utility, uncheck 'Windows Zero Config' box.

4. Click '<u>Start</u>' button (should be located at the bottom-left corner of windows desktop), click '<u>Control Panel</u>', then click '<u>Network and Internet</u> <u>Connections</u>' in Control Panel.



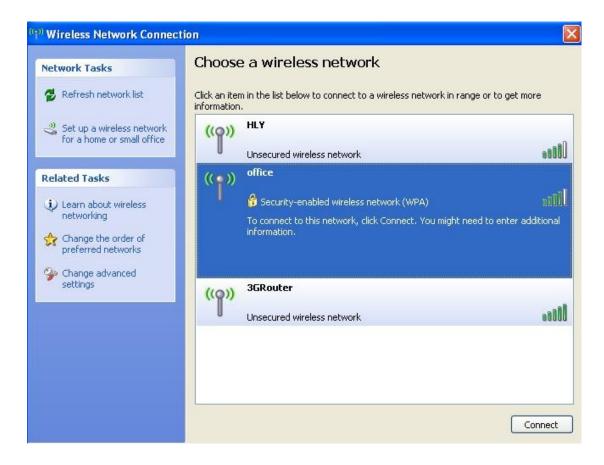
5. Double click 'Network Connections'.



6. Right-click '<u>Wireless Network Connection</u>' (it may have a number as suffix if you have more than one wireless network card, please make sure you right-click the Wireless LAN 802.11n USB Network Adapter), then select '<u>View</u> <u>Available Wireless Networks</u>'.

Local Area Connection 2	(ip) Dicable
-	View Available Wireless Networks
Local Area Connection	Repair
	Bridge Connections
	Create Shortcut
	Delete
	Rename
	Properties

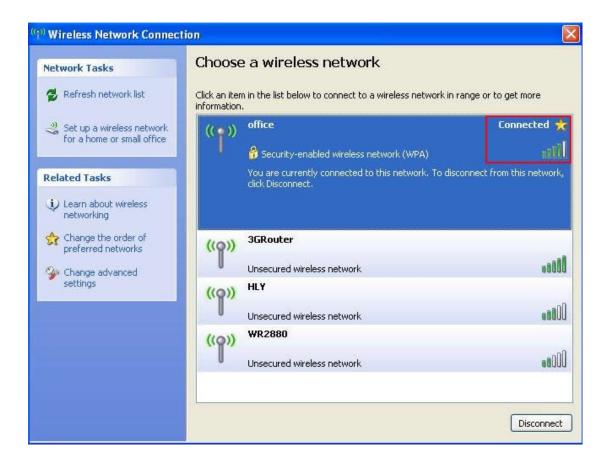
7. All wireless access points in proximity will be displayed here. If the access point you want to use is not displayed here, please try to move your computer closer to the access point, or you can click 'Refresh network list' to rescan access points. Click the access point you want to use if it's shown, then click 'Connect'.



8. If the access point is protected by encryption, you have to input its security key or passphrase here. It must match the encryption setting on the access point. If the access point you selected does not use encryption, you'll not be prompted for security key or passphrase.

The petwerk 'affice' requir	ee a pakuerk key (also called a WED key or WDA key). A pakuer
	es a network key (also called a WEP key or WPA key). A networl In intruders from connecting to this network.
Type the key, and then cl	ick Connect.
Network key:	
Confirm network key:	

9. If you can see '<u>**Connected**</u>' message, the connection between your computer and wireless access point is successfully established.



CHAPTER 3: Client Utility

3.1 Connection Profile Management

If you need to connect to different wireless access points at different time, like of access point of your home, office, cybercafe, or public wireless service, you can store the connection parameters (encryption, passphrase, security etc, etc.) as a profile for every access point, so you don't have to input these parameters every time when you want to connect to a specific wireless access point.

To manage profiles, right-click the Client configuration utility icon located at lower-right corner of computer desktop, then click '**Open Config Utility**'.

Open Config Utility	
About	CALL!
Hide	
Quit	

Click the 'Profile' menu.

REALTEK 11n USB W Refresh(R) Mode(M) Abo		
Refrest(K) Mode(M) Abo	General Profile Available Network Status Statistics Wi- Available Profile(s)	Fi Protect Setup
	Profile Name SSID SSID	Add
		Remove
		Edit
		Duplicate
		Set Default
< <u>></u>		
Show Tray Icon Radio Off	Disable AdapterWindows Zero Config	Close

3.1.1 Add a new profile

By this function you can setup the connection parameters for a specific wireless access point in advance, without contacting it first. If you want to create a new profile, click '**Profile**' menu, then click '**Add**' button.

Available Network Status Statistics V file(s) ne SSID ar 3GRouter	/i-Fi Protect Setup Add
ne SSID	Add
	Add
a Sakutei	
	Remove
	Edit
	Duplicate
	Set Default
	>
	101

You'll be prompted to input connection parameters for the wireless access point you wish to connect:

ireless Network Prope	erties:		
Profile Name:	3GRouter	802.1x configure	
Network Name(SSID):	3GRouter	EAP TYPE :	
		GTC	~
		Tunnel : Privision Mode :	
This is a computer-to access points are no	a-computer(ad hoc) network; wireless t used.		~
Channel:	6 (2437MHz)	Username :	
Wireless network secu	irity		
This network requires	a key for the following:	Identity :	
Netw	vork Authentication: Open System 🛛 💽		
	Data encryption: Disabled 🛛 🗸	Domain :	
	SPHRASE	Password :	
Key index (advanced)	: 1 🗸	Certificate :	
Network key:			~
		PAC : Auto Select PAC	
Confirm network key:			~

Required parameters are:

Profile name	You can give a name to this profile, so you can
	remember its purpose easily. It can be any phrase
	to help you remember.
Network Name (SSID)	The SSID (Service Set IDentifier, i.e. access point's
	name). This must be identical with the SSID of the
	access point you wish to connect.
This is a	Check this box if you wish to connect to another
computer-to-computer	computer / network device by ad hoc method.
(ad hoc) network	When not accessing to wireless access point, you
	have to check this box.
Channel	Select wireless channel for ad hoc connection. This
	option only appears when you're using ad hoc
	connection.
Network Authentication	Select the network authentication type from
	drop-down menu. This setting must be identical
	with the setting of wireless access point you with to
	connect.
Data encryption	Select the data encryption type from drop-down
	menu. This setting must be identical with the setting
	of wireless access point you with to connect.
ASCII / PASSPHRASE	When the encryption type is 'WEP', it's required to
	input a set of 'passphrase' to connect to wireless
	access point. Check 'ASCII' or 'PASSPHRASE'

	depends on the security setting of access point,
	and input it in the box; if you select 'PASSPHRASE'
	you also need to select the length of the key.
	The passphrase must be identical with the setting
	of wireless access point you with to connect.
Key index	Select WEP key index. For most of access points
	you can select '1', but please refer to the setting of
	the access point.
Network key / Confirm	When the encryption type is 'WPA' or 'WPA2-PSK',
network key	it's required to input a set of 'passphrase' to connect
	to wireless access point. Please input the same
	passphrase in two boxes for confirmation.
EAP TYPE / Tunnel /	When authentication type is any of 802.1X, you
Provision Mode	have to select EAP type, tunnel, and provision
	mode from dropdown menu. This setting must be
	identical with your 802.1x authentication server.
Username / Identity /	Please input 802.1x related authentication
Domain / Password	information here.
Certificate	If certification is required to authenticate with
	802.1x authentication server, please select a local
	certificate from dropdown list.
PAC	Check this box and PAC (Privilege Access
	Certificate) will be automatically selected.
	· · ·

When all required parameters are set, click '<u>**OK**</u>' to create and save a new profile.

3.1.2 Remove an existing profile

When you no longer need an existing profile, you can remove it.

If you want to remove a profile, click '**<u>Profile</u>**' menu, then select an existing profile which you wish to remove, and then click '**<u>Remove</u>**' button.

omputer Genera	Profile Avai	able Network	Status	Statistics	Wi-Fi Protect Setup	
tealtek RTL8188 Availa	able Profile(s)					
and the second se	file Name	SSID				Add
	3GRouter	3GRout	er			Remove
						Edit
				Duplicate		
						Set Default
<]	>	
>						

3.1.3 Edit an existing profile

If you have added a profile before, and you wish to change the content of the profile, you can use this function. Please select a profile from the list first, then click '<u>Edit</u>' button. You'll be provided with the contents of selected profile, and you can edit them. Click '<u>OK</u>' to save changes, or click '<u>Cancel</u>' to discard changes.

Profile Name:	3GRouter	802.1x configure	
Network Name(SSID):	3GRouter	EAP TYPE :	
		GTC	~
		Tunnel : Privision Mod	de:
This is a computer-to access points are not	p-computer(ad hoc) network; wireless t used.	~	1
Channel:	6 (2437MHz)	Username :	
Wireless network secu	rity		
This network requires	a key for the following:	Identity :	
Netw	vork Authentication: Open System 🛛 💌		
	Data encryption: Disabled	Domain :	
ASCII PAS	SPHRASE	Password :	
Key index (advanced)	r 1 🗸	Certificate :	
Network key:			
		PAC : Auto Select PAC	
Confirm network key:			

3.1.4 Make a copy of existing profile

If you need to make a copy of a specific profile, you can use this function. This function is very convenient when you need to build a new profile which parameters are similar to any existing profile.

To do this, select an existing profile, then click 'Duplicate' button.

fresh(R) Mode(M) Ab	out(A)	
MyComputer	E General Profile Available Network Status Statistics	Wi-Fi Protect Setup
	Profile Name SSID SGRouter 3GRouter	Add
		Remove
		Edit
		Duplicate
		Set Default
		>
Show Tray Icon	🔲 Disable Adapter	Close

You'll be prompted to input a profile name, please use an identical name that does not exist in profile list.

3.1.5 Set as default profile

If you wish to use a specific profile as default connection, you can select a profile in the list, and click '<u>Set Default</u>'. Selected profile will become default selection and Client configuration utility will attempt to connect to selected access point.

h(R) Mode(M) Abou	
E 👹 MyComputer	General Profile Available Network Status Statistics Wi-Fi Protect Setup Available Profile(s)
	Profile Name SSID Add
	Remove
	Edit
	Duplicate
	Set Default

3.2 View Network Statistics, General Information, and Status

The configuration utility provides information about network statistics and link status. If you want to know how your wireless network card works, you can use these functions to get detailed information about the wireless connection you're using.

3.2.1 General Information

If you want to know the general information of the access point you're connecting to, click '**<u>General</u>**' menu:

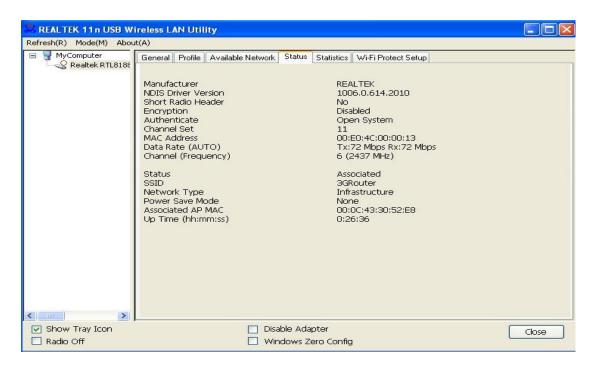
REALTEK 11n USB W	ireless LAN Utility
Refresh(R) Mode(M) Abou	it(A)
🖃 😼 MyComputer	General Profile Available Network Status Statistics Wi-Fi Protect Setup
Realtek RTL8188	
	Status: Associated
	Speed: Tx:72 Mbps Rx:72 Mbps
	Type: Infrastructure
	Encryption: None
	SSID: 3GRouter
	Signal Strength: 100%
	Link Quality:
	Network Address: MAC Address: 00:E0:4C:00:00:13
	IP Address: 00:E0:4C:00:00:13
	Subnet Mask: 255.255.2
	Gateway: 192.168.1.1
	ReNew IP
< >	
Show Tray Icon	Disable Adapter
Radio Off	Uisable Adapter Close Close

All general information like signal strength and link quality will be displayed here. These information are very useful when you encounter some problem on connecting to access point.

If you wish to get a new IP address from DHCP server, you can click '<u>**ReNew**</u> <u>IP</u>' button.

3.2.2 Status

If you want to know the status of your wireless network card, click '<u>Status</u>' menu:



3.2.3 View Network Statistics

To view the statistical data of wireless network card, click '<u>Statistics</u>' menu, and the statistics of wireless connection will be displayed:

💡 MyComputer 🛛 🗍 Gei	neral Profile Available Network Status Statistics Wi	Fi Protect Setup	
Realtek RTL818			
	Counter Name	Value	
	Tx OK	80	
	Tx Error	0	
	RX OK	912	
	Rx Packet Count	912	
	Rx Retry	7	
	Rx ICV Érror	0	
		0.000	
	Reset		
Show Tray Icon	Disable Adapter		Cck
Radio Off	Windows Zero Config		Close

All connection-related statistics is displayed here. You can click '**<u>Reset</u>**' button, to reset the statistics of all items back to 0.

3.3 Miscellaneous Settings

There are few functions provided by Client configuration utility, you can access these functions from the bottom of configuration menu:

REALTEK 11n USB W	ireless LAN Utility 📃 🗖 🔀
Refresh(R) Mode(M) Abou	t(A)
🖃 🚽 MyComputer	General Profile Available Network Status Statistics Wi-Fi Protect Setup
	Status: Associated
	Speed: Tx:72 Mbps Rx:72 Mbps
	Type: Infrastructure
	Encryption: None
	SSID: 3GRouter
	Signal Strength: 100%
	Link Quality:
	Network Address:
	MAC Address: 00:E0:4C:00:00:13
	IP Address: 192.168.1.120 Subnet Mask: 255.255.25.0
	Gateway: 192.168.1.1
	ReNew IP
< >	
Show Tray Icon	Disable Adapter Close Windows Zero Config

The descriptions of these functions are listed as follow:

Show Tray Icon	Check this box to show an icon on system tray.
	Uncheck this box to hide it.
Radio Off	Switch wireless radio off. Wireless network functionalities are disabled.
Disable Adapter	Disable wireless network adapter. All functionalities of configration menu will disappear. To resume, unckeck 'Disable Adapter'.
Windows Zero Config	Use Windows Zero Configuration to manage wireless connections. See section 2.2.2.

3.4 Establish secure connection with AP by WPS

Wi-Fi Protected Setup (WPS) is the latest wireless network technology which makes wireless network setup become very simple. If you have WPS-enabled wireless access point, and you want to establish a secure connection to it, you don't have to configure the wireless access point and setup data encryption by yourself. All you have to do is to go to the WPS setup page of this wireless card, click a button, and then press a specific button or enter a set of 8-digit code on the wireless access point you wish to establish a secure connection - just three simple steps!

For older wireless access points, it's possible to perform a firmware upgrade to become a WPS-enabled access point. Since they may not have a hardware button to press for WPS setup, you can use an alternative WPS setup method - input the pin code. Every WPS-compatible wireless network card support pin code configuration method; you can just input the code to wireless access point, and the wireless access point and wireless network card will do the rest for you.

This wireless network card is compatible with WPS. To use this function, the wireless access point you wish to connect to must support WPS function too. Now, please follow the following instructions to establish secure connection between WPS-enabled wireless access point and your wireless network card.

This wireless network card supports 2 kinds of WPS: PIN code and Push-Button.

Please follow the following instructions to setup WPS:

1. Right-click Client configuration utility icon, and click 'Open Config Utility'.



2. Click '<u>Wi-Fi Protect Setup</u>' menu.

REALTEK 11n USB W	ireless LAN Utility 📃 🗖 🔀
Refresh(R) Mode(M) Abou	t(A)
🖃 繴 MyComputer	General Profile Available Network Status Statistics Wi-Fi Protect Setup
	Status: Associated
	Speed: Tx:72 Mbps Rx:72 Mbps
	Type: Infrastructure
	Encryption: None
	SSID: 3GRouter
	Signal Strength: 100%
	Link Quality:
	Network Address:
	MAC Address: 00:E0:4C:00:00:13
	IP Address: 192.168.1.120
	Subnet Mask: 255.255.255.0
	Gateway: 192.168.1.1
	ReNew IP
Show Tray Icon	Disable Adapter Close
🔲 Radio Off	Windows Zero Config

3. You can use PIN code or Push-Button configuration, and WPS-compatible wireless access point must use the same type of WPS. For instructions on setup each type of WPS, see next 2 chapters for detailed instructions.

🗸 REALTEK 11n USB W	/ireless LAN Utility	
Refresh(R) Mode(M) Abou	ut(A)	
🖃 🥃 MyComputer	General Profile Available Network Status Statistics Wi-Fi Protect Setup	
	Wi-Fi Protected Setup (WPS) An easy and secure setup solution for Wi-Fi network Pin Input Config (PIN) After pushing the PIN button.Please enter the PIN code into your AP. PIN Code : 35229414	
	Pin Input Config (PIN)	
	Push Button After pushing the PBC button.Please push the physical button on your AP or visual button on the WPS config page.	
	Push Button Config (PBC)	
<		
Show Tray Icon Radio Off	Disable Adapter Close Windows Zero Config	

3.4.1 PIN Code

To use PIN Code, please click 'Pin Input Config (PIN)' button:

REALTEK 11n USB W	ireless LAN Utility	
Refresh(R) Mode(M) Abou	ıt(A)	
Refresh(R) Mode(M) Abou	General Profile Available Network Status Statistics Wi-Fi Protect Setup Wi-Fi Protected Setup (WPS) An easy and secure setup solution for Wi-Fi network Pin Input Config (PIN) After pushing the PIN button.Please enter the PIN code into your AP. PIN Code : 35229414 Pin Input Config (PIN)	
	Push Button After pushing the PBC button.Please push the physical button on your AP or visual button on the WPS config page. Push Button Config (PBC)	
Show Tray Icon	Disable Adapter	Close

You'll be prompted to select an access point you wish to connect. If you know its SSID, click '<u>Yes</u>', otherwise click '<u>No</u>'.

Wi-Fi Protected Se	tup (WPS)	
Do you wan	t to select a spe	cific AP ?
Yes	No)

If you select '<u>Yes</u>', a list of all WPS-compatible AP nearby will be displayed; you can click '<u>Refresh</u>' to rescan, then select an AP and click '<u>Select</u>' button.

WPS AP Name	WPS AP MAC
3GRouter HLY	00:0C:43:30:52:E8 00:E0:4C:81:96:C1
	Refresh

If you select '**No**', wireless network card will prompt you to enter 8-digit PIN code into your AP, without selecting an AP in advance.

After you select '<u>Yes</u>' or '<u>No</u>' in previous step, network card will attempt to connect to WPS-compatible AP, and an 8-digit number will appear. Please input this number to AP's configuration menu within 2 minutes, and network card will establish secure connection with AP automatically. To stop this procedure before connection is established, click '**Cancel**'.

	ed Setup - PIN method
Vi-Fi Protec	ted Setup - PIN method
lease enter 1	the following PIN code into your AP .
	PIN Code: 35229414
Status : I	nitial WPS
	Cancel

3.4.2 Push Button

To use Push-Button WPS configuration, please click '<u>Push Button Config</u> (<u>PBC</u>)' button. This is the easiest way to establish secure connection by WPS, but if there're more than one WPS-compatible AP using Push-Button config, please use PIN Code instead.

REALTEK 11n USB W	/ireless LAN Utility	
Refresh(R) Mode(M) Abo	ut(A)	
Refresh(R) Mode(M) Abou	General Profile Available Network Status Statistics Wi-Fi Protect Setup	
Show Tray Icon	Disable Adapter Windows Zero Config	Close

After you click "Push Button Config(PBC)", a message box will appear:

Wi-Fi Protected Setup - PBC method	X
Wi-Fi Protected Setup - PBC method	
If there is more than one AP on the PBC mode, there will be [Session Overlap].Please use PIN method or wait for a while and use PBC method ag.	ain.
Status : AP Sitesurvey	
Complete : 🚺]
Push Button Config (PBC) Cancel	

Please activate Push-Button function on wireless access point now, and wireless network card will establish secure connection with access point within one minute.

CHAPTER 4 Soft-AP Function

Excepting become a wireless client of other wireless access points, this wireless adapter can act as a wireless service provider also! You can switch this wireless adapter's operating mode to 'AP' mode to simulate the function of a real wireless access point by software, and all other computers and wireless devices can connect to your computer wirelessly, even share the internet connection you have.

Please follow the instructions in following chapters to use the AP function of your wireless card.

4.1 Switch to AP Mode and Station Mode

The operating mode of the wireless card is 'Station Mode' (becoming a client of other wireless access points) by default.

Please follow the following instructions to switch to AP mode:

1. Right-click Client configuration utility icon, and click '<u>Open Config</u> Utility'.

Open Conl	fig Utility	
About		
Hide		
Quit		

2. Select 'Mode', and then select 'Access Point'.



It requires few seconds to switch to AP mode, please be patient.

REALTEK 11n USB Wi		
Refresh(R) Mode(M) Abou		
MyComputer Realtek RTL8188	General Advanced Statistics ICS	
	SSID: microsof-35426b_AP BSSID: 00:E0:4C:00:00:13 Association Table	
	AID MAC Address Life Time	
<	Config	
Show Tray Icon	Disable Adapter	Close
Radio Off		Close

After mode switch is complete, you'll see general information of software AP, which shows AP's SSID and connected wireless clients.

🙁 REALTEK 11n USB Wi	reless LAN Utility	
Refresh(R) Mode(M) Abou	t(A)	
B VyComputer	General Advanced Statistics ICS SSID: microsof-35426b_AP BSSID: 00:E0:4C:00:00:13 Association Table	
	AID MAC Address Life Time	
Show Tray Icon	Disable Adapter	Close
Client mode icor	л: E ²⁰ 3 <mark>лії 1</mark> 9:10 АМ	

Software AP icon:

4.1.1 Configure SSID and Channel

To configure software AP, click '<u>Config</u>' button:

REALTEK 11n USB Wi	reless LAN Utility	
Refresh(R) Mode(M) Abou	t(A)	
B S MyComputer	General Advanced Statistics ICS	
	SSID: microsof-35426b_AP	
	BSSID: 00:E0:4C:00:00:13	
	Association Table	
	AID MAC Address Life Time	
	Config	
<		
Show Tray Icon	Disable Adapter	Close

The 'Wireless Network Properties' is displayed.

Wireless Network Prope	rties: 🛛 🛛
Profile Name:	Access Point Mode
Network Name(SSID):	microsof-35426b_AP
This is a computer-to access points are not	-computer(ad hoc) network; wireless : used.
Channel:	1 (2412MHz) 💌
Wireless network secu This network requires	rity a key for the following:
Netw	ork Authentication: Open System 💌
	Data encryption: Disabled
ASCII PASS	PHRASE
Key index (advanced) Network key:	1
Confirm network key:	
ОК	Cancel

Please note that Ad-Hoc mode is not available when network card is in AP mode. The description of major setup items are listed below:

Network Name	Please input the SSID (the name used to identify this
(SSID)	wireless access point) here. Up to 32 numerical
	characters can be accepted here, excepting space.
Channel	Please select the wireless channel you wish to use,
	from 1 to 13.

To save changes, click '**OK**'; otherwise click '**Cancel**' to leave this menu and keep settings untouched.

4.1.2 Setup Soft-AP Security

To setup security options for Soft-AP, configure 'Wireless Network Security' section as follow:

ireless Netwo	ork Prope	erties:
Profi	e Name:	Access Point Mode
Network Nam	e(SSID):	microsof-35426b_AP
		o-computer(ad hoc) network; wireless
access poin	its are no	t used.
C	hannel:	1 (2412MHz) 💌
Wireless net This network	< requires	a key for the following:
	Netw	rork Authentication: Open System
		Data encryption: Disabled
ASCII	PAS	SPHRASE
Key index (a Network key		: 1 💌
Confirm netv	vork key:	
C	ОК	Cancel

The description of setup items about wireless security are listed below:

Network	Select network authentication mode from dropdown
Authentication	menu.
Data Encryption	Select data encryption method from dropdown menu.
ASCII /	If the encryption method is WEP, check either 'ASCII'
PASSPHRASE	or 'PASSPHRASE' box and input it in the box as WEP
	passphrase.
Key Index	Select WEP key index (1-4). If you don't know which
	one you should use, select 1.
Network key /	IF network authentication mode is WPA, please input
Confirm network key	WPA passphrase in both box.

To save changes, click '**OK**'; otherwise click '**Cancel**' to leave this menu and keep settings untouched.

4.2 Advanced Settings

If you want to setup advanced settings of software access point, select '<u>Advanced</u>' menu. If you don't know the meaning and affects of these settings, keep them untouched.

REALTEK 11n USB W	ireless LAN Utility	
Refresh(R) Mode(M) Abou	ut(A)	
🖃 🚽 MyComputer	General Advanced Statistics ICS	
~ <u>0</u>	General	
	Beacon Interval	
	100	
	DTIM Period:	
	З	
	Preamble Mode	
	Long	
	Set Defaults Apply	
< · · · >		
Show Tray Icon	Disable Adapter	Close
🔲 Radio Off		

The description of all setup items are listed below:

Beacon Interval	Please input wireless beacon time interval here.
DTIM Period	Please input DTIM (Delivery Traffic Indication
	Message) here.
Preamble Mode	Select wireless frame preamble mode (long or short)
	from dropdown menu.
Set Defaults	Reset all settings back to factory default value.
Apply	Save changes.

If you changed any setting here and cause problem on communicating with wireless clients, click '<u>Set Defaults</u>' to reset all settings back to default setting.

4.3 Wireless Statistics

Select '<u>Statistics</u>' menu and the data statistics about software access point will be displayed.

MyComputer	General Advanced Statistics ICS		
	Counter Name	Value	
	Tx OK	172	
	Tx Error	0	
	Rx OK	1960	
	Rx Packet Count	1960	
	Rx Retry Rx ICV Error	9	
	KX ICV Error	U	
	Reset		

Click '**Reset**' to reset the value of every item back to '0'.

4.4 Internet Connection Sharing (ICS)

In this page, you can assign a network card on your computer as the path for all wireless clients to get connected to Internet.

If you have only one network card (except this software access point), you don't have to select network card here; if you have more than one network card, select the one you wish to be used as Internet gateway.

REALTEK 11n USB Wi	ireless LAN Utility	
Refresh(R) Mode(M) Abou	rt(A)	
MyComputer Sealtek RTL8188	General Advanced Statistics ICS Setting Internet Connection Sharing (ICS)	
	ConnName Device Name	
	Local Area Connection Realtek RTL8139 Family PCI Fast Ethernet NIC #2 Local Area Connecti Realtek RTL8139 Family PCI Fast Ethernet NIC	
	Public Network	
	Local Area Connection Realtek RTL8139 Family PCI Fast Ethernet NIC #2	
Show Tray Icon Radio Off	Disable Adapter	Close

Click 'Apply' to save changes

('Apply' is grayed out when no changes are made in this page).

CHAPTER 5: Troubleshooting

If you encounter any problem when you're using this wireless network card, don't panic! Before you call your dealer of purchase for help, please check this troubleshooting table, the solution of your problem could be very simple, and you can solve the problem by yourself.

Scenario	Solution
I can't find any	1. Click 'Rescan' for few more times and see if you
wireless access	can find any wireless access point or wireless device.
point / wireless	2. Please move closer to any known wireless access
device in ' <u>Site</u>	point.
Survey' function.	3. Ad hoc' function must be enabled for the wireless
	device you wish to establish a direct wireless link.
	4. Please adjust the position of network card (you
	may have to move your computer if you're using a

 when I click '<u>Open</u> <u>Config Utility'</u> inserted into your computer's USB port. 2. Reboot the computer and try again. 3. Remove the card and insert it into another USB port. 4. Remove the driver and re-install. 5. Contact the dealer of purchase for help. I can not establish connection with a certain wireless access point 1. Click '<u>Add to Profile</u>' for few more times. 2. If the SSID of access point you wish to connect is hidden (nothing displayed in 'SSID' field in '<u>Site</u> <u>Survey'</u> function), you have to input correct SSID of the access point you wish to connect. Please contact the owner of access point to ask for correct SSID. 3. You have to input correct passphrase / security key to connect an access point with encryption. Please contact the owner of access point you wish to connect only allows network cards with specific MAC address to establish connection. Please go to '<u>Status</u>' menu and write the value of 'MAC Address' down, then present this value to the owner of access point so he / she can add the MAC address of your network card to his / her access point's list. The network is slow / having problem 		
 wireless device you want to connect by doing this, try to move closer to the place where the wireless access point or wireless device is located. Nothing happens when I click 'Open Config Utility' Please make sure the wireless network card is inserted into your computer's USB port. Reboot the computer and try again. Remove the card and insert it into another USB port. Remove the driver and re-install. Contact the dealer of purchase for help. Click 'Add to Profile' for few more times. Contact the dealer of purchase for help. Click 'Add to Profile' for few more times. If the SSID of access point you wish to connect is hidden (nothing displayed in 'SSID' field in 'Site Survey' function), you have to input correct SSID of the access point you wish to connect. Please contact the owner of access point to ask for correct SSID. You have to input correct passphrase / security key to connect an access point to ask for correct passphrase / security key. The access point you wish to connect only allows network cards with specific MAC address to establish connection. Please go to 'Status' menu and write the value of 'MAC Address' down, then present this value to the owner of access point so he / she can add the MAC address of your network card to his / her access point's list. The network is slow / having problem when transferring large files 		
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3. Remove the card and insert it into another USB port.4. Remove the driver and re-install.5. Contact the dealer of purchase for help.I can not establish connection with a certain wireless access point2. If the SSID of access point you wish to connect is hidden (nothing displayed in 'SSID' field in ' <u>Site</u> Survey' function), you have to input correct SSID of the access point to ask for correct SSID.3. You have to input correct passphrase / security key to connect an access point with encryption. Please contact the owner of access point to ask for correct passphrase / security key.4. The access point you wish to connect only allows network cards with specific MAC address to establish connection. Please go to ' <u>Status</u> ' menu and write the value of 'MAC Address' down, then present this value to the owner of access point so he / she can add the MAC address of your network card to his / her access point's list.The network is slow / having problem when transferring large files1. Move closer to the place where access point to	when I click ' <u>Open</u>	inserted into your computer's USB port.
port.4. Remove the driver and re-install.5. Contact the dealer of purchase for help.I can not establish connection with a certain wireless access point2. If the SSID of access point you wish to connect is hidden (nothing displayed in 'SSID' field in ' <u>Site</u> Survey' function), you have to input correct SSID of the access point you wish to connect. Please contact the owner of access point to ask for correct SSID.3. You have to input correct passphrase / security key to connect an access point with encryption. Please contact the owner of access point to ask for correct passphrase / security key.4. The access point you wish to connect only allows network cards with specific MAC address to establish connection. Please go to ' <u>Status</u> ' menu and write the value of 'MAC Address' down, then present this value to the owner of access point so he / she can add the MAC address of your network card to his / her access point's list.The network is slow / having problem when transferring large files1. Move closer to the place where access point to	Config Utility'	2. Reboot the computer and try again.
 4. Remove the driver and re-install. 5. Contact the dealer of purchase for help. 1 can not establish connection with a certain wireless access point 2. If the SSID of access point you wish to connect is hidden (nothing displayed in 'SSID' field in '<u>Site</u> <u>Survey</u>' function), you have to input correct SSID of the access point you wish to connect. Please contact the owner of access point to ask for correct SSID. 3. You have to input correct passphrase / security key to connect an access point to ask for correct passphrase / security key. 4. The access point you wish to connect only allows network cards with specific MAC address to establish connection. Please go to '<u>Status</u>' menu and write the value of 'MAC Address' down, then present this value to the owner of access point so he / she can add the MAC address of your network card to his / her access point's list. The network is slow / having problem when transferring large files 		3. Remove the card and insert it into another USB
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The network is slow / having problemImage: Solution of the access point to the owner of the access point to the owner of the access point to the access point	certain wireless	hidden (nothing displayed in 'SSID' field in 'Site
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		change the channel number.
Please try one or more solutions listed above.		Please try one or more solutions listed above.

Technical Description

Frequency Range: 2412MHz-2472MHz for 802.11b, g, n/HT20 2422MHz-2462MHz for 802.11n/HT40 Transmit Power: 9.0 dBm EIRP Hardware Version: U0119 V1.1 Software Version: 1.0

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