



MAXPower 802.11n/g/b USB 2.0 Adapter

# User Manual

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## **Before You Start...**

For your convenience, this is a short checklist of information required to set-up your **MAXPower 802.11n/g/b USB 2.0 Adapter**.

We recommend filling in the information into the spaces provided for easy reference for you and Technical Support. If you do not know the information, you may need to consult your router's manual, your Internet Service Provider, and/or your system administrator.

<b>Network Information</b> Router Manufacturer and Model:	
Router IP address:	
Router Username:	
Router Password:	
SSID:	
Channel:	
Authentication Type:	
Encryption Type:	
Encryption Key or Passphrase:	

# Introduction

Thank you for purchasing the Newer Technology **MAXPower 802.11n/g/b USB 2.0 Adapter**! This guide will walk you through the set-up process step-by-step and get you quickly up and running with your new wireless device quickly.

Set-up of the Newer Technology **MAXPower 802.11n/g/b USB 2.0 Adapter** is straightforward, but you do need to follow this guide for proper set-up. We suggest reading through the appropriate operating system section for your computer before connecting the **MAXPower 802.11n/g/b USB 2.0 Adapter**.

## **Package Contents**

- MAXPower 802.11n/g/b USB 2.0 Adapter
- USB Extension Cradle
- Installation and Driver CD

# **Installation for Macintosh**

## **Driver and Utility Installation**

- 1. You can find the Mac OS X drivers on the included CD or you can download them from the following URL: <u>http://www.newertech.com/downloads/maxpower\_usb2\_n.dmg</u>
- 2. Double-click on the CD or the .dmg file. This will open a window that will reveal folders with the different versions of the drivers.
- 3. Open the folder that corresponds with the Mac OS X version your computer is running. There will be two .pkg files: an installer and an uninstaller.

Double-click on the installer .pkg file to open the installer.



4. Click the "Continue" button.



5. Decide if you want to install for all users of this computer and click the "Continue" button.

000	Install Ralink Wireless Utility – Snow Leopard
	Select a Destination
Introduction	How do you want to install this software?
Destination Select     Installation Type	Install for all users of this computer
Installation	
• Summary	Installing this software requires 7 MB of space.
	You have chosen to install this software for all users of this computer.
	Go Back Continue

6. Click the "Install" button.

\varTheta 🔿 🔿 😜 İn	stall Ralink Wireless Utility – Snow Leopard
S	Standard Install on "Snow Leopard SSD"
<ul> <li>Introduction</li> <li>Destination Select</li> <li>Installation Type</li> <li>Installation</li> <li>Summary</li> </ul>	This will take 7 MB of space on your computer. Click Install to perform a standard installation of this software for all users of this computer. All users of this computer will be able to use this software.
	Go Back Install

7. You will be prompted for your username and password. After entering these, click on the "OK" button.

*Note: You must have administrative privileges to install this software on your Mac.* 

	Type your password to allow Installer to make changes.
	Name: OWC
	Password:
▶ Details	
?	

8. The installer will need to restart your Mac after the installation process is complete. You need to click the "Continue Installation" button to allow the installer to complete the installation.

00	Install Ralink Wireless Utility – Snow Leopard
<ul> <li>Introduct</li> <li>Destination</li> <li>Installation</li> </ul>	When this software finishes installing, you must restart your computer. Are you sure you want to install the software now? Cancel Continue Installation of
Installation     Summary	users of this computer will be able to use this software.
	Change Install Location
	Go Back Install

9. When the installation is complete, you will need to click the "Restart" button to restart your Mac.



## **Before Configuring**

- 1. Insert the **MAXPower 802.11n/g/b USB 2.0** Adapter into an open USB 2.0 port on your Mac. The Wireless Utility should open automatically. You can ignore this for now.
- 2. The new network detected dialog box should pop-up. Click the "Network Preferences..." button.

			Wirele	ess Utility			•
	Profile	Link Status	Site Survey	Statistics	Advanced	WPS	About
			Δ	P List			
	SSIL						letwork Type
4	0	A new network interface has been detected.					frastructure
	PD Tes		The "802.11 n WL set up. To set up t Preferences.	AN" network int his interface, u	terface has not b se Network	een	frastructure
			Cancel	Netwo	ork Preference	s)	
				_			
onne	cted <>	R		RESCAN	N CONN	ECT	ADD PROFIL
_							

3. The Network System Preference pane will open. It will show a New Interface Detected window. Click the "OK" button to add the **MAXPower 802.11n/g/b USB 2.0 Adapter** as a network device.

000	Network
Show All	٩
<ul> <li>Ethernet 2 Connected</li> <li>FireWire Not Connected</li> <li>Ethernet 1 Not Connected</li> <li>PCI Eth, Port 1 Not Connected</li> <li>PCI Eth, Port 2 Not Connected</li> <li>Station Connected</li> <li>Stat</li></ul>	New Interface Detected A new network interface has been detected: 802.11 n WLAN Please verify that it is configured correctly, then press Apply to activate it.  IP Address: Subnet Mask: Router: DNS Server: Search Domains:
+ - &-	Advanced ?

## Configuration

- 1. When you inserted the **MAXPower 802.11n/g/b USB 2.0** Adapter into a USB 2.0 port, the wireless utility should have opened automatically. If it did not, or you quit the program, you can find it in your Applications folder.
- 2. Once the wireless utility window is active, click on the "Site Survey" tab. You should see your wireless network listed here. If you do not, click the RESCAN button. If your network still does not appear, consult your wireless router's manual or technical support.

< Type
-
uctur
_

3. Click on the wireless network you want to connect to. Then click the "ADD PROFILE" button.

AP List							
	SSID	BSSID	Signal	Channel	Authe	Encr	Network Type
2	DD Testing		42	11	0		La francisco de la composición de la composicinde la composición de la composición de la composición d
	PD Testing	D4-9A-20-7A-64-7	42	11	Open	WEP	Infrastructure
		-	_				
-							
-							

4. In the "System Configuration" tab, you can name the profile in the "Profile Name" field and adjust any settings needed to connect to the network. If you are unsure on the rest of the settings, leave them at the default settings.

Profile Name PROF1		SSID	PD Testing
System	Configuration	hentication & Security	
Power Saving Mode			
• CAM (Constantly	/ Awake Mode)	O Power Saving Mode	2
Network Type	Infrastructure 💌	Tx Power	100
RTS Threshold	0		2347
Eragment Threshold	256		2346
	ОК	CANCEL	

5. Click on the "Authentication & Security" tab to enter the security settings needed to connect to your wireless network.

	System Conligur	ation	Authentication & Security	
	Authentication Type	Oper	1	•
	Encryption Type	WEP		🔹 🗌 802.1x
	WPA Pre-Shared Key			
WEP SETTING				
💽 Key #1	Hexadecimal			
🔘 Key #2	Hexadecimal 💌			
○ Key #3	Hexadecimal			
○ Key #4	Hexadecimal			

Click the "OK" button.

6. Within the "Profiles" tab, click on the network you just added and click "ACTIVATE".

_			Wire	less Utility				
	Profile	Link Status	Site Survey	Statistics	Advanced	WPS	About	
	Profile List							
	Profile	SSI	D CI	nannel Authe	ntication En	cryption	Network Type	
	PROF1	PD Tes	sting /	Auto Sh	ared	WEP	Infrastructure	

You will notice the connection will change from red to green when you are connected. Your wireless connection is now set-up and ready to use.

	Profile	SSID	Channel	Authentication	Encryption	Network Type
$\overline{\mathbf{v}}$	PROF1	PD Testing	Auto	Shared	WEP	Infrastructure
	D. Cla	COLD	Character 1		<b>F</b>	Not and Trees
	Profile	SSID	Channel	Authentication	Encryption	Network Type
$\overline{\mathbf{A}}$	PROF1	PD Testing	Auto	Shared	WEP	Infrastructure

## Adding the Wireless Utility to the Startup Items

If the wireless utility does not automatically open when the **MAXPower 802.11n/g/b USB 2.0 Adapter** is plugged-in, you can set the wireless utility to open on startup by performing the following steps:

1. Open System Preferences by clicking on the Apple menu in the upper-left-hand corner of your Mac and selecting "System Preferences"

Ű.	Finder	File	Edit	View
Al Sc Al	bout This oftware Up op Store	Mac odate		
Sy	/stem Pref	erence	es	
D	ock			•
Re	ecent Item	S		•
Fo	orce Quit F	inder	てむ	শ্লত
SI Re Sł	eep estart nut Down.		7	ж▲
Lo	og Out OW	/C	Û	жQ

2. Click on the "Accounts" preference pane.



3. Highlight the account you want to add the utility as a startup item to and click on the "Login Items" tab.

₿ 🙆 🔿	Accounts	
▲ ► Show All		٩
My Account          OWC         Admin         Other Accounts         Image: Comparison of the second data of the second da	Password Lo These items will open automatical Hide Item Hide Item HardwareGrowler To hide an application when you log in, so column next to the application.	y when you log in: Kind Application Application
+ -		
Click the lock to make cha	nges.	?

Click on the plus "+" sign at the bottom.

4. Select NewerTech Wireless Utility in your Applications folder.

Click the "Add" button to add the NewerTech Wireless Utility to your startup items.

	NewerTech Wireless Utility 🛟	٩
	Name	Date Modified
DiDisk	🔳 Loginltem	9/7/10
	NewerTech Wireless Utility	7/9/12
Show Leopard 35D	Scutum	10/21/11
Lion SSD	Scutum-README.txt	1/5/09
Storage SSD		
📃 TestMountainLi		
▼ SHARED		
💻 Chris's MacBoo		
💻 Christopher's		
📼 Jamie's G4 Cube		
💻 Josh's MacBook		
OWC PD MP20	-	
🖳 OWC PD's iMac 🖡		
	Ca	ncel Add

5. Close the System Preferences window by clicking on the red circle in the upper-left-hand corner of the window.

00		Accounts		
▲ ► S	how All		Q	
My Account My Account Other Acco Cues Disab	t unts it Account led	Password These items will open automat Hide Item  S GrowlHelperApp  HardwareGrowler  NewerTech Wireless U To hide an application when you log column next to the application.  To hide an application when you log column next to the application.	Login Items ically when you log in: Kind Application Application Itility Application	
Click t	he lock to make change	es.		?

The wireless utility will now launch at start-up and will be ready to act when you plug-in the MAXPower 802.11n/g/b USB 2.0 Adapter.

## **Installation and Configuration For Windows**

## **Driver and Utility Installation**

1. Connect the MAXPower 802.11n/g/b USB2.0 Adapter by plugging it in to an open USB port.

If the Found New Hardware Wizard opens, click the cancel button to close the wizard.



1. Insert the included installation CD or unzip the download located at the following URL: http://www.newertech.com/downloads/maxpower\_usb2\_n.zip.

Double-click on the USB Driver.exe to launch the installer.



www.newertech.com

Welcome

Thank you for purchasing the wireless adapter from Newer Technology.

The setup wizard will assist you to install the adapter

quickly and easily. Please refer to the user guide included

in the CD for more information.

UNH-MXP3802NU2C

USER GUIDE

EXIT

RUN

300Mbps wireless USB adapter

Click on the "Run" button.

2. Accept the terms of the license agreement and then click the "Next" button.



- 3. Select to Install the driver only or Install the driver and Newer Technology WLAN utility and then click the Next button.
  - Select "Install driver only" if
    - Your computer is running Windows XP Service Pack 2 or greater.
    - You feel comfortable using the built-in automatic wireless network configuration.
  - Select "Install driver and Newer Technology WLAN Utility" if
    - Your computer is running Windows 2000 or Windows XP with an earlier service pack than Service Pack 2
    - You are not familiar with the built-in automatic wireless network configuration.

300Mbps wireless USB ada	pter - InstallShield Wizard 🛛 🛛 🔀
Setup Type Select the setup type that best	suits your needs.
	Choose to install
	Install driver only
	Install driver and Newer Technology WLAN Utility
to a Delta Li	
InstallShield	Cancel

2. Click the "Install" button to begin the installation.



3. Choose "Yes, I want to restart my computer now" and then click the Finish button. The installation will be complete when your computer restarts.

300Mbps wireless USB adapter - InstallShield Wizard					
	InstallShield Wizard Complete The InstallShield Wizard has successfully installed 300Mbps wireless USB adapter. Before you can use the program, you must restart your computer.				
	<ul> <li>Yes, I want to restart my computer now.</li> <li>No. I will restart my computer later.</li> </ul>				
	Remove any disks from their drives, and then click Finish to complete setup.				
<b>Install</b> Shield	Kack Finish Cancel				

#### **Configuration using the Newer Technolgy WLAN Utility**

1. You can launch the configuration utility by double-clicking on the icon on the task bar.



2. The main configuration utility window has five buttons: Available Networks, Link Information, Profile Settings, Advanced, and About.

n			000	) ()   ×
((†))	SSID			
6	Rate	24.0 Mbps	IP Address	169.254.78.168
att	Channel	1 (2412 MHz)	• Mask	255.255.0.0

3. Click on the "Available Networks" window.



4. Click on the network you want to add and then click the "Add Profile" button.

<b>n</b>		e 🗉	Available N	letworks	×
SSID         Rate       18.0 Mbps         Channel       1 (2412 MHz)	<ul> <li>▶ IP Address 192.168.2.2</li> <li>▶ Mask 255.255.255.0</li> </ul>	C Add to Profile PD Testing	6 2011 2011	b () b () b ()	6) 26% 7% 7%
		AP Information SSID PD Testin MAC Address D4-9A-20	g /	Authentication O	pen ÆP

5. By default, the "Profile Name" is "PROF1". If you wish to use a different name you can change it now. The default "Network Type" is "Infrastructure – Connect to AP". This is the most common network setup. You will only need to change it to "Ad Hoc – Connect to other computers" if you don't have an access point and are only trying to connect two computers directly.

Once these options are set, click the right arrow to move-on to the next step.

<b>n</b>		Available Networks
(°↑°) → SSID → Rate → Channel	18.0 Mbps IP Address 192.168.2.2 1 (2412 MHz) Mask 255.255.255.0	▶     6     b     9     0     26%       PD Testing     ▶     11     b     9     1     7%       ▶     1     b     9     7%
	Profile Settings 🛛 🗙	
Profile Name SSID	PROF1 PD Testing	
Network Type	Infrastructure - Connect to AP Ad Hoc - Connect to other computers	AP Information SSID PD Testing Authentication Open MAC Address D4-9A-20-7A-64-7C Encryption WEP

6. Select the Authentication and Encryption appropriate for your network. If you are unsure, refer to the router's manual or the manufacturer's tech support for the proper security settings and configuration.

Once these options are set, click the right arrow to move-on to the next step.

= + +	Profile Settings	×
Authentication Encryption	Shared	

7. Enter the appropriate security settings and click the right arrow.



8. The profile configuration is complete. Click the "Active" button to activate the profile.



9. The main configuration window will now show that the profile is set correctly

	Available Networks
Image: SSID         PD Testing           Image: Rate         24.0 Mbps         IP Address         10.0.2.11           Image: Channel         11 (2462 MHz)         Mask         255.255.255.0	PD Testing In <b>b 9 2</b> 37% In <b>b 9 2</b> 26%
Profile List 🗙	
🖋 PROF1 PD Testing 🦹 🎽	
Profile Information Profile Name PROF1 Authentication Shared SSID PD Testing Encryption WEP	AP Information SSID PD Testing Authentication Open MAC Address D4-9A-20-7A-64-7C Encryption WEP

10. You can see extended details for the network connection by clicking on the "Link Information" button.



# **Troubleshooting / Frequently Asked Questions**

#### **PROBLEM:**

After a restart, the **MAXPower 802.11n/g/b USB 2.0 Adapter** is not seen.

#### SOLUTION:

Disconnect and reconnect the **MAXPower 802.11n/g/b USB 2.0 Adapter**. If that does not work, try a full shutdown and reboot instead of just restarting.

#### **PROBLEM:**

The network connection frequently drops.

#### SOLUTION:

Some wireless frequencies and channels are more common than others, which can result in interference. Try changing your router's channel and/or frequency. Make the same changes to the settings for the **MAXPower 802.11n/g/b USB 2.0 Adapter**.

#### **PROBLEM:**

I am not able to connect to a wireless network with a hidden SSID.

#### SOLUTION:

The **MAXPower 802.11n/g/b USB 2.0 Adapter** does work with networks that have SSID disabled, however when you first start-up, it will usually take five to ten seconds for the **MAXPower 802.11n/g/b USB 2.0 Adapter** to automatically find and reconnect to the network.

#### **PROBLEM:**

When I plug-in the **MAXPower 802.11n/g/b USB 2.0 Adapter** to a USB 1.1 port, it seems to run slow.

#### SOLUTION:

The **MAXPower 802.11n/g/b USB 2.0 Adapter** will function through USB 1.1. The speeds, however, will be limited by the slower bus speed.

#### **PROBLEM:**

The MAXPower 802.11n/g/b USB 2.0 Adapter won't automatically connect to the Internet on my Mac.

#### SOLUTION:

In OS X 10.4.x or earlier:

- 1. Go to System Preferences  $\rightarrow$  Network
- 2. Click on the "Show" drop-down menu and select "Network Port Configurations"
- 3. In the list that shows, find the option for your USB interface and drag it to the top of the list.
- 4. Click "Apply" and close the System Preferences window.

In OSX 10.5.x:

- 1. Go to System Preferences  $\rightarrow$  Network
- 2. Click on the "Action" menu (looks like a gear)



- 3. Select the "Set Service Order..." from the "Action" menu
- 4. Drag the USB interface to the top of the list and click "OK"
- 5. Click "Apply" and close the System Preferences window.

#### **PROBLEM:**

I tried attaching the **MAXPower 802.11n/g/b USB 2.0 Adapter** to a video game console (Playstation 3, XBOX 360, Wii, etc) that has a USB port and I cannot get it to connect to my network.

#### SOLUTION:

The **MAXPower 802.11n/g/b USB 2.0 Adapter** requires a software driver, specific to Mac OS X and Windows, to run. No driver software is available for any game console.

#### **PROBLEM:**

I am unable to configure the **MAXPower 802.11n/g/b USB 2.0 Adapter** using Apple's built-in AirPort software.

#### SOLUTION:

The **MAXPower 802.11n/g/b USB 2.0 Adapter** requires the use of the included software to function in Mac OS X. It will not work using Apple's native wireless software and drivers.

#### **PROBLEM:**

I need to save settings for multiple networks.

#### SOLUTION:

You can save multiple profiles for different networks. This can be accomplished by repeating the same steps you used to create the initial profile.

# **Contacting Tech Support**

You can register your MAXPower 802.11n/g/b USB 2.0 Adapter at Newer Technology's website:

http://www.newertech.com/tech\_support/ntwty.php

If you need support, there are three ways you to contact our Technical Support / Customer Service:

- email
  - You can submit your email request at:
  - o <u>http://www.newertech.com/contact</u>
- Phone
  - o 815-308-7001 Option 2
  - o 8AM 8PM CST Monday through Friday
  - 9AM 4PM CST Saturday
- LiveChat
  - NewerTech's distributor, OWC, offers live technical assistance at <u>http://eshop.macsales.com</u>
  - 8AM 8PM CST Monday through Friday
  - o 9AM 4PM CST Saturday