WLAN 802.11G USB ADAPTER

User's Guide

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Regulatory Information

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.

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.

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. End users must follow the specific operating instructions for satisfying RF exposure compliance. To maintain compliance with FCC RF exposure compliance requirements, please avoid direct contact to the transmitting antenna during transmitting.

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

We declare that the product is limited in CH1~CH11 by specified firmware controlled in the USA

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1. Welcome

Thank you for purchasing our 802.11g USB 2.0 Adapter, and welcome to Wireless LAN—the easy way to wireless networking.

This user's guide introduces to you the 802.11g USB 2.0 Adapter and describes the most common configurations, which will help you connect to your network easily. Please read this manual to get familiar with the IEEE802.11g Wireless LAN. This manual contains detailed instructions in operation of this product. Please keep this manual for future reference.

1.1 Kit Contents

- One 802.11g USB 2.0 Adapter
- One Software CD:
 - (1) Utility & Driver Installation Software
 - (2) User Manual PDF File
- Quick Start Guide

1.2 Main Features of 802.11g USB 2.0 Adapter

Status LED

- Off: Power Off.
- Blinking: The USB adapter is powered on but no wireless connection is made yet.
- **Steady Green:** Wireless connection is linked.

802.11g USB 2.0 Adapter features

- High-speed wireless connection, up to 54 Mbps
- IEEE802.11g (DSSS) standard for 2.4 GHz Wireless LAN
- Plug-and-Play installation
- Solid design with an integrated antenna
- Full mobility and seamless cell-to-cell roaming
- Automatic scale back at per packet level
- Super GTM (up to 108 Mbps data rate) and eXtended Range (XR) Technology

802.11g USB 2.0 Adapter supports

Automatic load balancing for optimized bandwidth

- Advanced power management
- Windows® 2000 and XP

1.3 Wireless Networking Scenarios

As our 802.11g USB 2.0 Adapter is interoperable and compatible with other IEEE 802.11g compliant products from other manufacturers, it offers you the most freedom to establish your ideal wireless network. Therefore, after installing 802.11g USB 2.0 Adapter, you can connect your computer to:

- A Peer-to-Peer Workgroup of 802.11g compliant wireless devices.
- A LAN (Local Area Network) constructed by Access Point(s) or other 802.11 g compliant systems.
- Share your Internet access by using just one connection, share printers and other peripheral devices, share data and image files between networked PCs, play multi-player games, and use other network enabled sharing resources.

Peer-to-Peer Networking:

An Ad Hoc Network could be easily set up with some PCs and this 802.11g USB 2.0 Adapter or our other WLAN devices. Therefore, it is very suitable to build a network for temporary use, such as for demonstration in exhibition, for new sales point/branch use and alike.



Cooperate LAN (Local Area Networking):

With some 802.11g USB 2.0 Adapters and Access Points, it is easy to construct a LAN with access to Internet for enterprise use.

The construction is quite easy that the 802.11g USB 2.0 Adapter and Access Point will automatically work at the most suitable frequency when Access Point is set within the proper range.

In addition, commonly manufacturers will bundle the Site-Survey tool for users to check the communication quality.



2. Quick Start to Wireless Networking

2.1 Installation

- 1. **Insert the installation CD**. It automatically starts the setup program for software installation.
- 2. **Follow the installation wizard** to complete the software installation process and restart your computer if necessary.
- 3. Connect the WLAN 802.11g USB 2.0 Adapter to your laptop PC/desktop PC.
- 4. Restart your PC.
- **NOTE!** Select "Cancel" when Found New Hardware window appears.
- *NOTE!* In Windows XP, it is recommended that you use the WLAN 802.11g USB2.0 Utility.

2.2 Connecting to an Existing Network

After restarting your PC, the adapter automatically connects to an unsecured network that has the best signal strength (if there's any). Go to windows <u>Start > Programs ></u> <u>WLAN 802.11g USB2.0 Adapter > WLAN 802.11g USB2.0 Adapter Utility</u> to open the utility. **Profile Name** shows default.

@ WLAN 802	.11g USB2.0 Adapt	er Utility - Current	Profile: Default	? 🛛
<u>Action</u> Options	<u>H</u> elp			
Current Status	Profile Management	liagnostics		
	Profile Name:	Default		Total 80211
	Link Status:	Associated		ATHEROS
	Wireless Mode:	2.4 GHz 54 Mbps	IP Address:	0.0.0.0
	Network Type:	Infrastructure	Current Channel:	11
Serve	er Based Authentication:	None	Data Encryption:	None
	Signal Strength:			Good
				Advanced

You may also manually assign a network to connect with. Follow the steps below:

- 1. Click **Profile Management** tab.
- 2. Click Scan, and Available Infrastructure and Ad Hoc Networks list appears.
- 3. Click the desired network **SSID** and click **Activate**.
- 4. Contact the network administrator for Profile Settings: General, Security and Advanced.
- 5. Once connected, the configuration icon in the Windows System Tray appears Vou can click **Current Status** tab to check the connection status.
- 6. For details of each tab in WLAN 802.11g USB2.0 Adapter Utility, please read Chapter 4.

3. Step-by-Step Instructions

3.1 Installation

1. Insert the installation CD into your CD-ROM drive. Click Next.



2. Select "I accept the terms of the license agreement" and click Next.

WLAN 802.11g USB2.0 Adapter Installation Program	×
License Agreement Please read the following license agreement carefully.	4
All rights reserved. No part of this publication may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language or computer language, in any form or by any means, electronic, mechanical, magnetic, optical, chemical, manual or otherwise, without the prior written permission of this company	
I go not accept the terms of the license agreement D I go not accept the terms of the license agreement InstallShield	
< <u>B</u> ack <u>N</u> ext > Cancel	

3. Click Next. You can highlight different items to choose different setup.

Setup Type Select the setup type that best suits your needs.	
Click the type of setup you prefer. Install Client Utilities and Driver (recommended) Install Driver Only Make Driver Installation Diskette(s)	Description Choose this option to install the driver and client utilities. This is the recommended option.
tallShield	Back Next > Cance

4. Click Yes. System reminds you the reboot step.

Question	
?	The option you have selected requires the system to be rebooted at the end of the operation. Do you want to continue?

5. Click Next. Or click Browse to select the destination folder you prefer.

hoose Destination Loca Select the folder where the	t ion installation program will install t	he files.	24
The installation program will	install the client utilities in the f	ollowing location:	
- Destination Folder			

6. Click Next. Edit the Program Folder name if necessary.

WLAN 802.11g USB2.0 Adapter Installation Program	×
Select Program Folder Select a program folder.	4
The installation program will add program icons to the Program Folder listed below. You may type a new folder name or select one from the Existing Folders list. <u>P</u> rogram Folder: WLAN 802.11g USB2.0 Adapter	зу
Existing Folders: Accessories Administrative Tools Games IEEE 802.11b WLAN Utility(USB) i-Sync for 163 JAMMER Professional Demo Microsoft Office Tools PrintServer Driver Startup	
InstallShield	ncel

7. Read the notice and **click Next**.

WLAN 802.11g USB2.0 Adapter Installation Program WLAN 802.11g USB2.0 Adapter Installation Program	×
IMPORTANT: Please Read!	
On Windows XP, you can configure your USB2.0 Wireless LAN Client Adapter through 1 WLAN 802.11g USB2.0 Adapter Utility or a third party supplicant. Because third party to may not provide all of the functionality available in WLAN Utility. We recommends that y use this Utility. (Please note that a patch from Microsoft might be required to use the Mic tool with WPA security.) On the next screen, select whether you want to use WLAN Utility or a third party supplic configure your client adapter. NOTE: If you select a third party supplicant, some of the WLAN features will not be avail To activate those features, you must install WLAN Utility.	the ols ou rosoft ant to lable.
nstallShield	
< <u>B</u> ack <u>N</u> ext> Ca	ancel

8. Click Next. WLAN 802.11g USB2.0 Adapter Utility is recommended.

WLAN 802.11g USB2.0 Adapter Installation Program	
Choose Configuration Tool	NZA.
Which tool will you use to configure your client adapter?	
 WLAN 802.11g USB2.0 Adapter Utility and Supplicant. Third Party Supplicant 	
InstallShield	Cancel

9. Insert the adapter and click OK



10. Click OK and your PC will restart.

WLAN 8	02.11g USB2.0 Adapter Installation Program
⚠	The Installation Program has successfully performed the selected operations, but the system needs to be rebooted before all of the changes will take effect. Click OK to reboot the system.
	ОК

11. A short-cut icon appears on the desktop of your PC.



- **NOTE!** Select "Cancel" when Found New Hardware window appears.
- *NOTE!* In Windows XP, it is recommended that you use the WLAN 802.11g USB2.0 Utility.

3.2 Connecting to a network

NOTE! For details of Utility Configuration, please refer to Chapter 4.



After restarting your PC, the adapter automatically connects to an unsecured network that has the best signal strength (if there's any). **Profile Name** shows Default.

🮯 WLAN 802.	11g USB2.0 Adapte	er Utility - Current	Profile: Default	? 🔀
<u>Action</u> Options	Help			
Current Status	Profile Management D	liagnostics		
	Profile Name:	Default		Total 80211
	Link Status:	Associated		ATHEROS
	Wireless Mode:	2.4 GHz 54 Mbps	IP Address:	0.0.0.0
	Network Type:	Infrastructure	Current Channel:	11
Server	Based Authentication:	None	Data Encryption:	None
	Signal Strength:			Good
				Advanced

You may also manually assign a network to connect with. Follow the steps below:

1. Open WLAN 802.11g USB 2.0 Adapter Utility (by double-clicking on the shortcut icon on the desktop), and click **Profile Management** tab.

Action Options Help Current Status Profile Management Diagnostics Image: Current Status Image: Current Status Image: Current Status Image: Current Status Image: Current Status Image: Current Status Image: Current Status Image: Current Status Image: Current Status Image: Current Status Image: Current Status Image: Current Status Image: Current Status Image: Current Status Image: Current Status Image: Current Status Image: Current Status Image: Current Status Image: Current Status Image: Current Status Image: Current Status Image: Current Status Image: Current Status Image: Current Status Image: Current Status Image: Current Status Image: Current Status Image: Current Status Image: Current Status Image: Current Status Image: Current Status Image: Current Status Image: Current Status Image: Current Status Image: Current Status Image: Current Status Image: Current Status Image: Current Status Image: Current Status Image: Current Status Image: Current Status Image: Current Status	WLAN 802.11g USB2.0 Ad	apter Utility - Current Profile: Default	? 🛛
Current Status Profile Management Diagnostics Default <u>M</u> ew <u>M</u> odify <u>Bemove</u> <u>Activate</u> <u>Activate</u> Details Import Network Type: Infrastructure Security Mode: None Network Name 1 (SSID1): <empty> Network Name 2 (SSID2): <empty> Network Name 3 (SSID3): <empty> Auto Select Profiles Order Profiles</empty></empty></empty>	Action Options Help		
Mew Modify Bemove Activate Details Network Type: Infrastructure Security Mode: None Network Name 1 (SSID1): <empty> Network Name 2 (SSID2): <empty> Network Name 3 (SSID3): <empty> Auto Select Profiles Order Profiles</empty></empty></empty>	Current Status Profile Managemen	Diagnostics	
Modify Bemove Activate Details Network Type: Infrastructure Security Mode: None Network Name 1 (SSID1): <empty> Network Name 2 (SSID2): <empty> Network Name 3 (SSID3): <empty> Auto Select Brofiles Order Brofiles</empty></empty></empty>	Sefault		<u>N</u> ew
Bemove Activate Details Network Type: Infrastructure Security Mode: None Network Name 1 (SSID1): <empty> Network Name 2 (SSID2): <empty> Network Name 3 (SSID3): <empty> Auto Select Profiles Order Profiles</empty></empty></empty>			Modify
Details Infrastructure Network Type: Infrastructure Security Mode: None Network Name 1 (SSID1): <empty> Network Name 2 (SSID2): <empty> Network Name 3 (SSID3): <empty> Auto Select Profiles Order Profiles</empty></empty></empty>			<u>R</u> emove
Details Infrastructure Import Security Mode: None Export Network Name 1 (SSID1): <empty> Export Network Name 2 (SSID2): <empty> Scan Network Name 3 (SSID3): <empty> Order Profiles</empty></empty></empty>			Activate
Network Type: Infrastructure Security Mode: None Network Name 1 (SSID1): <empty> Network Name 2 (SSID2): <empty> Network Name 3 (SSID3): <empty> Auto Select Profiles Order Profiles</empty></empty></empty>	Details		
Security Mode: None Network Name 1 (SSID1): <empty> Network Name 2 (SSID2): <empty> Network Name 3 (SSID3): <empty> Auto Select Profiles Order Profiles</empty></empty></empty>	Network Type:	Infrastructure	Import
Network Name 1 (SSID1): <empty> Export Network Name 2 (SSID2): <empty> Scan Network Name 3 (SSID3): <empty></empty></empty></empty>	Security Mode:	None	
Network Name 2 (SSID2): <empty> Network Name 3 (SSID3): <empty> Auto Select Profiles Order Profiles</empty></empty>	Network Name 1 (SSID1):	<empty></empty>	Export
Network Name 3 (SSID3): <empty></empty>	Network Name 2 (SSID2):	<empty></empty>	Coop
Auto Select Profiles	Network Name 3 (SSID3):	<empty></empty>	Julia
	Auto Select Profiles		Order Profiles

2. Click Scan, and Available Infrastructure and Ad Hoc Networks list appears.

Network Name (S	SID) 🔞 Supe	r 🕆 XR 👘 Signal Strength	n Channel	Wireless Mode
1	~~	<u>յ</u>] 16 dB	1	2.4 GHz 54 Mbps
L CRP-1-QT	w 3	12 dB	1	2.4 GHz 54 Mbps
👗 wlan		ון] 3dB	10	2.4 GHz 54 Mbps
R NC		48 dB	3	2.4 GHz 11 Mbps
1 NC50	~ 3	13 dB	3	2.4 GHz 11 Mbps
👗 NC52	6 9	1 36 dB	3	2.4 GHz 54 Mbps
👗 NC53	6 9	1 33 dB	4	2.4 GHz 54 Mbps
👗 NC54	6 10	11 28 dB	4	2.4 GHz 54 Mbps
👗 NC60		ոլ] 11 dB	4	2.4 GHz 11 Mbps

3. Click the desired network **SSID** and click **Activate**.

Network Name (SSID)	¢9	Super	XR	Signal Strength	Channel	Wireless Mode	1
1	-			24 dB	1	2.4 GHz 54 Mbps	
350_1XWPATKIP				l]] 6 dB	7	2.4 GHz 11 Mbps	
1 350_LEAP	-]]] 3 dB	7	2.4 GHz 11 Mbps	
CRP-1-QT	~ 3			17 dB	1	2.4 GHz 54 Mbps	
🧼 default				10 dB	11	2.4 GHz 11 Mbps	
🗼 ABS 2200]] O dB	1	2.4 GHz 54 Mbps	
💡 GEAR				14 dB	1	2.4 GHz 54 Mbps	
I TestAP				1] 9 dB	6	2.4 GHz 11 Mbps	
1 NT 500 a	-			-11 0.4B	11	2 / GH2 5/ Mbns	1

4. Contact the network administrator for Profile Settings: General, Security and Advanced.

General Tab: Enter a Profile Name and SSID.

General	Security Advanced		
ì	- Profile Settings		
	Profile Name:		
	Client Name:	0020_NB	
	-Network Names		
	SSID1:	NC53	
	SSID2:		
	SSID3:		
			OK Cancel

Security Tab: If the connected network is secured, contact the network administrator for Security Settings.

Profile M	anagement			? 🗙
General	Security Advanced			
Se	et Security Options		1 F L P	
	O WPA/WPA2	WPA/WPA2 EAP Type:	LEAP	
	🔘 WPA Passphrase			
	🔘 802.1x	802.1x EAP Type:	LEAP 🛃	
	🔘 Pre-Shared Key (St	tatic WEP)		
	None			
	Configure		Allow Association to Mixed Cells	
			ОК С	ancel

Advanced Tab: Click Advanced for other network settings.

	Power Save Mode:	Normal	N
	Network Type:	Infrastructure	
	802.11b Preamble:	Short & Long	🔿 Long Only
Wireless Mode ✓ 2.4 GHz 54 Mbps	- Wireless Mode Whe	n Starting Ad Hoc Ne	etwork
2.4 GHz 11 Mbps	◯ 2.4 GHz 54/1	1 Mbps Chann	el: 🛛 🖌 🖌
Super G			
802.11 Authentication Mode			Preferred APs

5. Once connected, the status icon in the Windows System Tray appears. You can click **Current Status** tab to check the connection status.

3.3 Creating an Ad Hoc Network

If you have more computers and only want to place them in a local area network, or you want to communicate directly without using an Access Point or any connection to a wired network, you can create a new Ad Hoc Network.

1. In **Profile Management** tab, click **New** button to create a profile.

Options Help		
ent Status Pronie Managemer	(Diagnostics	
🖕 Default		<u>N</u> ew
		Modify
		<u>R</u> emove
		Activate
Details		
Network Type:	Infrastructure	Import
Security Mode:	None	
Network Name 1 (SSID1):	<empty></empty>	Export
Network Name 2 (SSID2):	<empty></empty>	Scan
Network Name 3 (SSID3):	<empty></empty>	
Auto Select Profiles		Order Profiles

General	Security Advanced			
	- Profile Settings			
	Profile Name:	I.		
	Client Name:	0020_NB		
í	Network Names			_
	SSID1:	NC53		
	SSID2:			
	SSID3:			
				_

2. Click Advanced to switch Network Type to Ad Hoc.

Profile Management			? 🛛
General Security Advanced			
reason reads to to	Power Save Mode;	Off	
	Network Type:	Ad Hoc	~
	802.11b Preamble:	O Short & Long	📀 Long Only
Wireless Mode	- Wireless Mode Whe	en Starting Ad Hoc Net	work
✓ 2.4 GHz 11 Mbps	⊙ 2.4 GHz 54/1	1 Mbps Channe	: Auto
🗹 Super G			
802.11 Authentication Mode Auto Open Shared		F	referred APs
			DK Cancel

3. Click General to edit the Profile and SSID1 names.

rofile M	lanagement		2
General	Security Advanced		
	Profile Settings		
	Profile Name:	[S.	
	Client Name:	0020_NB	
í	Network Names	·	
	SSID1:	NC53	
	SSID2:		
	SSID3:		
			OK Cancel

4. Click **Security** to configure security options.

eral Security Advanced		
Set Security Options		
○ WPA/WPA2	WPA/WPA2 EAP Type:	ELEAP
🔿 WPA Passphrase		
() 802.1x	802.1x EAP Type:	LEAP
Pre-Shared Key (St	atic WEP)	
🔘 None		
Configure		Allow Association to Mixed Cells

5. Click **OK** button.

3.4 Removing your 802.11g USB 2.0 Adapter

You can remove the device after you finished the action with the device. Please follow the safe removal procedure. You can find a safe removal icon in your computer's notification area.

1. Double click the Safely Remove Hardware icon.



- 2. The "**Safely Remove Hardware**" window will pop up. You can select the device you want to remove. Then, click the "**Stop**" button.
- *NOTE!* When removing the WLAN 802.11g USB 2.0 Adapter, you will lose your connection to the network. Make sure you have closed all files and network applications (such as e-mail) before removing the WLAN 802.11g USB 2.0 Adapter.

3.5 Uninstallation

- 1. Make sure the Utility is closed.
- 2. Go to <u>Star \rightarrow Programs \rightarrow WLAN 802.11g USB2.0 Adapter \rightarrow Uninstall Utility.</u>
- 3. Choose "Uninstall the previous installation" and click Next.

WLAN 802.11g USB2.0 Adapter Installation Program	×
Previous Installation Detected	
The installation program has detected that a previous installation exists. What do you want to do?	
O Update the previous installation	
Uninstall the previous installation	
InstallShield	
< <u>B</u> ack Next > Cancel	

4. Click Yes.



5. Click OK.



6. Click Yes.



7. Click **OK**, and your PC will restart. Uninstallation is finished.

WLAN 802.11g USB2.0 Adapter Installation Program						
⚠	The Installation Program has successfully performed the selected operations, but the system needs to be rebooted before all of the changes will take effect. Click OK to reboot the system.					
	ОК					

4. Using the Utility

4.1 Current Status

The Current Status tab contains general information about the program and its operations.

ę	🗞 WLAN 802.11g USB2.0 Adapter Utility - Current Profile: Default 🛛 🔹 💽							
ł	Action Options	<u>H</u> elp						
1	Current Status	Profile Management	Diagnostics					
		Profile Name:	Default		Total 80211			
		Link Status:	Associated		ATHEROS			
		Wireless Mode:	2.4 GHz 54 Mbps	IP Address:	0.0.0.0			
		Network Type:	Infrastructure	Current Channel:	11			
	Serve	er Based Authentication:	None	Data Encryption:	None			
		Signal Strength:			Good			
					Advanced			

- **Profile Name:** The name of the current selected configuration profile. If you see Default in Profile Name, it is because you do not assign a specific SSID, and the adapter automatically searches and connects to the most suitable network. You can configure the profile name through <u>Profile Management → Modify→General</u>.
- Link Status: Shows whether or not the station is associated to the wireless network.
- Wireless Mode: Displays the wireless mode. You can configure the wireless mode through <u>Profile Management → Modify→Advanced</u>.
- **IP Address:** Displays the computer's IP address.
- Network Type: The type of network the station is connected to. The options include infrastructure and Ad Hoc. You can configure the network type through Profile Management → Modify→Advanced.
- **Current Channel:** Shows the currently connected channel.
- Server Based Authentication: Shows whether server based authentication is used.
- **Data Encryption:** Displays the encryption type the driver is using. You can configure Data Encryption through <u>Profile Management \rightarrow Modify \rightarrow Security.</u>
- **Signal Strength:** Shows the strength of the signal.