IWAVEPORT WLM54GP30

USER MANUAL



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Manual Revision by Daniel

Manual Number: U-0539-V1.8C Version 1.8, May 2007

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FCC NOTICE

This device 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 device 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 device does cause harmful interference to radio or television reception, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Connect the computer into an outlet on a circuit different from that to which the receiver is connected.
- Increase the separation between the computer and receiver.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

FCC Compliance Statement: 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.

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

IEEE 802.11b or 802.11g operation of this product in the U.S.A. is firmware-limited to channels 1 through 11.

RF exposure warning

The equipment complies with FCC RF exposure limits set forth for an uncontrolled environment.

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

End Product Labeling

The final end product must be labeled in a visible area with the following: "Contains FCC ID: TK4-08-WLM54GP30"

ICES 003 Statement

This Class B digital apparatus complies with Canadian ICES-003.

Declaration of Conformity

Compex, Inc. declares the following: Product Name: Compex Wireless Mini-PCI Network Adapter Model No.: Compex iWavePort **WLM54GP30** conforms to the following Product Standards:

Radiated Emission Standards:

ETSI EN 300 328-2: July 2000; FCC: 47 CFR Part 15, Subpart B, ANSI C63.4-1992; 47 CFR Part 15, Subpart C (Section 15.247), ANSI C63.4-1992. **Conducted Emission Standards:** ETS 300 826: Nov. 1997. **Immunity Standards:** IEC 801-2; IEC 801-3; IEC 801-4 **Low Voltage Directive:** EN 60 950:1992+A1: 1993+A2: 1993+A3; 1995+A4; 1996+A11: 1997

Therefore, this product is in conformity with the following regional standards: FCC Class B — following the provisions of FCC Part 15 directive; CE Mark — following the provisions of the EC directive.

This Class B digital apparatus complies with Canadian ICES-003.

Technical Support Information

The warranty information and registration form are found in the Quick Install Guide.

For technical support, you may contact Compex or its subsidiaries. For your convenience, you may also seek technical assistance from the local distributor, or from the authorized dealer/reseller that you have purchased this product from. For technical support by email, write to support@compex.com.sg.

Refer to the table below for the nearest Technical Support Centers:

	Technical Support Centers
Со	ntact the technical support center that services your location.#
	U.S.A., Canada, Latin America and South An erica
⊠#Write	Compex, Inc.
#	840 Columbia Street, Suite B,
	Brea, CA92821, USA#
🖀 Call	Tel: +1 (714) 482-0333 (8 a.m5 p.m. Pacific time)
Ewil	Tel: +1 (800) 279-8891 (Ext.122 Technical Support)
i∰Fax#	Fax:# +1 (714) 482-0332#

Asia	, Australia, New Zealand, Middle East and the ress of the World
⊠₩vrite	Compex Systems Pte Ltd
#	135, Joo Seng Road #08-01, PM Industrial Building
	Singapore 368363#
🖀 Call	Tel: (65) 6286-1805 (8 a.m5 p.m. local time)
Eurol	Tel: (65) 6286-2086 (Ext. 199 Technical Support)
i∰Fax#	Fax:# (65) 6283-8337#
Internet	E-mail: support@compex.com.sg
access/#	FTPsite:# Ftp.compex.com.sg
Website:#	http://www.cpx.com or http://www.compex.co n.sg

Product Overview

Introduction

Thank you for purchasing this Wireless Network Adapter. Data security is facilitated with WPA, IEEE 802.1x Authentication and 64-bit, 128-bit and 152-bit WEP (Wired Equivalent Privacy). They support easy Plug and Play installation and combine simplicity, data privacy, and reliability for your wireless network.

Chapter 1 Basic Setup

This chapter outlines the basic requirement for the installation and configuration of the network adapter.

This network adapter is a plug-and-play device. You can plug it into the PCI slot of your PC for auto-detection.

1.1 Hardware Installation

- 1. Turn off your PC and switch off the power from the main power supply.
- 2. Remove the back cover of the PC.
- 3. Then insert the network adapter into your PCI slot as shown below. Ensure that the network adapter is properly seated into the slot.
- 4. Replace the back cover.
- 5. Power on your PC.



1.2 Driver & Utility Installation

- 1. Insert the Product CD into your computer CD-ROM drive.
- 2. Click on **Driver & Utility** section and the system will run the *setup.exe* automatically.
- 3. Next, the Atheros Client Installation Program screen appears. Click on the Next> button to proceed.



4. When the License Agreement screen appears, you are required to read and accept the agreement to continue. Click on the **Next>** button to proceed.

5. Select your preferred setup:



Install Client Utilities and Driver (Recommended) option

You are recommended to select this setup type. This option will install both the driver and utility that support your PCI adapter.

Install Driver Only option (For Windows XP user only)

Select this option if you are going to use the Wireless Zero Configuration Utility to configure your PCI adapter. Note that only Windows XP comes with the Wireless Zero Configuration Utility.

Make Driver Installation Diskette(s)

Select this option if you wish to make a duplicate copy of the driver and store to the diskette/s.

6. Click on the **Next>** button and follow the instructions stated on the screen.

For Windows XP users

7. If you are using Windows XP as operating system, the following screen will appear. Read the notice carefully and click on the **Next>** button to proceed.

theros Client Installation Pro	gram
IMPORTANT: Please Read	
On Windows XP, you can config Atheros Client Utility (ACU) or a til provide all of the functionality av (Please note that a patch from M security.) On the sect eccent scient what	ure your Atheros Wireless LAN Client Adapter through the irid party supplicant. Because third party hools may not alable in ACU. Atheros recommends that you use ACU. icrosoft might be required to use the Microsoft tool with WPA provide the supplication of the supplication of the supplication of the provide the supplication of the supplication of the supplication of the supplication of the supplication of the supplication of the supplication of the supplication of supplication of
configure your client adapter.	her you want to use ACU or a third party supplicant to
NOTE: If you select a third party To activate those features, you r	supplicant, some of the ACU features will not be available. nust install ACU.
- IChield	

8. Select your choice of tool to assist you in configuring your adapter. Click on the **Next>** button to proceed.

Atheros Client Installation Program	
Choose Configuration Tool	N2
Which tool will you use to configure your client adapter?	
 Atheros Client Utility (ACU) and Supplicant. 	
Third Party Supplicant	
InstallShield KBack Next >	Cancel

Atheros Client Utility (ACU) and Supplicant option

Select this option to install your network adapter. (Recommended)

Third Party Supplicant option

Select this option if you decide to use Wireless Zero Configuration Utility to configure your wireless device. Installing this tool will only allow you to view the status of the connected wireless device/s through the utility; configuration using the utility will not be allowed. If you have selected **Third Party Supplicant** configuration tool, a screen similar to that below will appear, prompting you to enable/disable the system tray icon.

 Click on the checkbox besides Enable Atheros System Tray Utility and click on the Next> button to proceed.

Enable	Tray Icon				1
Would ACU f	l you like to e eatures and i	mable the Athero s accessible from	os System Tra n an icon in th	y Utility? This ut e Windows syst	iity provides a em tray.
🔽 En	able Atheros	System Tray Uti	lity		
nstallShield			-		
			1	< Back	Next >

10. The screen below appears to inform you that the driver will be automatically installed if you have already inserted your client adapter into the PCI slot of your computer.

Atheros	: Client Installation Program 🛛 🕅
	The installation program installs the driver automatically when the client adapter is inserted. Insert the adapter now if it is not yet inserted, cancel the Found New Hardware Wizard if it appears, and proceed with the installation. Click OK to continue.
	OK

Cancel the Found New Hardware Wizard if it appears and click on the \mathbf{OK} button to begin the installation.

11. If a similar screen similar to the one shown below appears, click on the **Continue Anyway** button to continue the installation.



12. Click on the **OK** button to reboot your system and this will complete the installation.



Chapter 2 Using the System Tray Utility

This chapter will elaborate on the Atheros system tray utility found at the right bottom corner of your screen. Right click on the utility icon and the menu will appear.



The following explains the different options available on the menu:

Help Open the online help.

<u>Exit</u>

Exit the Atheros Client Utility application. Once you exit, the icon will disappear from the system tray.

Open Atheros Client Utility...

Launch the Client Utility.

Wireless-G Excellent Signal Strength Example

∧ Atheros Client Utility - Currei	nt Profile: Default		?	×			
Action Options Help				D	ifferent signal s	trenath indi	cations
Current Status Profile Management	Diagnostics					g	
Profile Name:	Default		Total 80211		Signal Strength:		No Link
ATHEROS Link Status:	Associated		ATHEROS		Signal Strength:		Fair
Wireless Mode:	2.4 GHz 54 Mbps	IP Address:	192.168.168.28	K			
Network Type:	Infrastructure	Current Channel:	10		Signal Strength:		Poor
Server Based Authentication:	None	Data Encryption	None		Signal Strength:		Excellent
Signal Strength:		********	Excellent	/ `			
			Advanced				
				_			
Wireless-AG No Li	nk Example						
A Atheros Client Utility - Current Pr	rofile: czech		?]	×			
Action Options Help							
Current Status Profile Management E	Diagnostics						
Total 80211			Total 0211				
Profile Name: c:	zech		ATERON				
Link Status: N	ot Associated	Network Type	e: Infrastructure				
Wireless Mode: 5	GHz 54 Mbps	Current Channe	el: Scanning				
Server Based Authentication:		Data Encryption	r 📕				
IP Address: 0.	.0.0.0						
Signal Strength:		1	No Link				
		IT	Advanced				

Manual LEAP Login

If you select this option, you will have to manually start the LEAP authentication process to login to the network instead of being prompted for your LEAP username and password during your windows logon.

	Please enter your LEAP username and password to log	ОК
	OF CO CHE WITCHESS DECWORK	Cancel
lser Name :	sampleUserName	
Password :		
Log on to :	sampleDomain	
Card Name :	Atheros USB 2.0 Wireless Network Adapter	
Profile Name :	Default	

Reauthenticate

Reauthenticate to a LEAP-configured access point each time you login to a LEAP network.



Select Profile

Click on a configuration profile name to switch to a particular wireless network. If no configuration profile exists, you will need to add a profile first.

Connection Status

To view the connection status of your wireless PCI adapter.

Alternatively, you may also double click on the utility icon in the system tray.

Active Profile	Displays the name of the active configuration profile.
Auto Profile Selection	Shows whether auto profile selection is enabled.
Connection Status	Displays whether the adapter is connected to a wireless network.

Link Quality	States the quality of the link connection.
SSID	Displays the SSID of the network to which the network adapter is associated.
Access Point Name	Shows the name of the access point the wireless adapter is connected to (if any).
Access Point IP Address	Shows the IP address of the access point the wireless adapter is connected to (if any).
Current Receive Rate	Displays the data rate at which the wireless adapter is currently receiving from the wireless network.
Current Transmit Rate	Displays the data rate at which the wireless adapter is currently transmitting to the wireless network.
Link Speed	States the speed of the link connection.
Client Adapter IP Address	Displays the IP address of the wireless adapter.

Chapter 3 Utility Features

This chapter shows you how to make use of the utility to view the status of your wireless connection, to change your settings and also to monitor your wireless performance via the network statistics.

3.1 Current Status Tab

Displays the performance of the network adapter in the wireless network.

Wirele	ess-AG Currer	nt Status
\Lambda Atheros Client Utility - Current	Profile: czech	<u>? ×</u>
Action Options Help		
Current Status Profile Management	Diagnostics	
Total 80211 ATHEROS Link Status:	czech Not Associated	Network Type: Infrastructure
Wireless Mode:	5 GHz 54 Mbps	Current Channel: Scanning
Server Based Authentication:		Data Encryption:
IP Address:	0.0.0.0	
Signal Strength:	<u></u>	No Link
		Advanced

Upon clicking on the **Advanced** button, you will be able to view all information on the respective profile, e.g. the types of encryption and authentication, the signal strength, the MAC address of the connected AP (if you are in Infrastructure mode), etc.

Network Name (SSID):	wireless-AP	Current Signal Strength:	-60 dBm
Server Based Authentication:	None	Current Noise Level:	-100 dBm
Data Encryption:	AES	Up Time:	02:40:14
Authentication Type: Message Integrity Check:	Open AES	802.11b Preamble: Current Receive Rate:	Short & Long 36.0 Mbps
Associated AP Name:	Unavailable	Current Transmit Rate:	48.0 Mbps
Associated AP IP Address:	Unavailable		
Associated AP MAC Address:	00-80-48-00-34-8D	Channel: Frequencur	1
Power Save Mode:	Normal	Channel Set	2.412 GHz
Current Power Level:	50 m₩	channel Sec	United States
Available Power Levels (802.11b/g):	100, 63, 50, 30, 20, 10 mW		

3.2 Profile Management Tab

Selecting this tab displays the profiles and the details.

You only need to create a profile if you have more than one wireless connection.

Decile Man	neeneek Ditaan ta	
rrent Status Flolle Man	agement Diagnostics	
wireless-AP		New
default Any		Modify
		Remove
		Activate
Details		
Details Network Type:	Infrastructure	Import
Details Network Type: Security Mode:	Infrastructure None	Import
Details Network Type: Security Mode: Network Name (SSID	Infrastructure None I): Any	Import Export
Details Network Type: Security Mode: Network Name (SSID Network Name 2 (SS	Infrastructure None I): Any ID2): <empty></empty>	Import Export

3.3 Diagnostics Tab

The **Diagnostics** tab lists the following receive and transmit diagnostics for packets received by or transmitted to the network adapter.

- Multicast packets transmitted and received
- Broadcast packets transmitted and received
- Unicast packets transmitted and received
- Total bytes transmitted and received

n Options Help		
rrent Status Profile Mana	agement Diagnostics	
Transmit		Advatuated
Multicast Packets:	5	Adapter Information
Broadcast Packets:	180	Advanced Statistics
Unicast Packets:	267	
Total Bytes:	23167	Troubleshooting
Receive		
Multicast Packets:	0	
Broadcast Packets:	62	
Unicast Packets:	3	
Total Bytes:	6756	

This button shows more detailed statistical information on frames that are either received by or transmitted by the network adapter.

Advanced Statistics			? 🔀
Transmit			
Frames Transmitted OK:	6649	RTS Frames:	0
Frames Retried:	402	CTS Frames:	0
Frames Dropped:	3055	No CTS Frames:	0
No ACK Frames:	47	Retried RTS Frames:	0
ACK Frames:	6649	Retried Data Frames:	402
Receive			
Beacons Received:	588	Authentication Time-Out:	0
Frames Received OK:	20	Authentication Rejects:	0
Frames Received with Errors:	198	Association Time-Out:	0
CRC Errors:	95	Association Rejects:	0
Encryption Errors:	0	Standard MIC OK:	0
Duplicate Frames:	0	Standard MIC Errors:	0
AP Mismatches:	0	CKIP MIC OK:	0
Data Rate Mismatches:	0	CKIP MIC Errors:	0
			ОК

Troubleshooting

This button allows you to run the diagnostic test, save the test report and view the test results on the wireless adapter configuration and association.



Chapter 4 Utility Configuration

This chapter will elaborate on the Client Manager configuration of the network adapter using some simple examples.

the wireless clients communicate through router, which are devices that act as base station for all wireless communication. Data packets from the wireless clients are transferred to the wireless router before being transmitted to other hosts on the network. The number of wireless clients supported depends on the router.

4.1 Configuration Mode

In this example, three work station act as wireless clients to communicate with the wireless router. Once all configuration has been done, wireless clients with the same SSID as the AP will be able to access wirelessly to PC1 via the wireless router



For Router

Ensure that you have enabled the DHCP server in your router and that your wireless clients are set to receive their IP address dynamically so that the wireless router can assign an IP address to them. Note the wireless configuration settings of your router as shown in the figure above.

For PC 1

- 1. Activate your utility.
- 2. Go to the **Profile Management** tab, click on the **Scan** button to look for the wireless AP.

Atheros Client Utility - Current Profile: default ion Options Help	
Current Status Profile Management Diagnostics	
🚰 default	New
	Modify
	Remove
	Activate
Details	
Network Type: Ad Hoc	Import
Notwork Name 1 (SSID1): USB-CLIENT	Export
	Scan
L Auto Select Profiles	Order Profiles

3. Click on the **Refresh** button if your system is unable to detect your wireless AP. Once found, select the **Network Name (SSID)** used by the router: *wireless-router* and click on the **Activate** button to add it to your profile list.

Network Name (SSID)	¢3	Signal Strength	Channel	Wireless Mode
& Weak Signal Test		1] 7 dB	3	2.4 GHz 54 Mbp
& Weak Signal Test	-3	1] 4 dB	1	2.4 GHz 54 Mbp
& Weak Signal Test		1] 4 dB	3	2.4 GHz 54 Mbp
Veak Signal Test		1]] 1 dB	3	2.4 GHz 54 Mbc
🛔 Weak Signal Test		11 32 dB	10	2.4 GHz 54 Mbc
local-sales	-	11 51 dB	6	2.4 GHz 54 Mbc
I PMD-28G	-3	11 35 dB	2	2.4 GHz 54 Mbp
wireless-AP	=3	11 30 dB	8	2.4 GHz 54 Mbc
Veak Signal Test	=3	1] 0 dB	11	2.4 GHz 54 Mbr
<				>

Notice that the SSID has already been pre-configured in this profile.

The SSID of both the wireless router and the wireless client must be the same for them to communicate with one another.

4. Enter the **Profile Name**, e.g. *Workstation 2* for easy identification.

Profile Settings		
Profile Name:	Workstation 2	
Client Name:	shawn	
Network Names		
SSID1:	wireless-AP	
SSID2:		
SSID3:		

5. Next, proceed to the **Security** tab. The wireless client must use the same security mode as the router. In our example, select **WPA Passphrase** and click on the **Configure...** button.

et Security Options			
O WPA/WPA2	WPA/WPA2 EAP Type:	LEAP	<i>Q</i> .
WPA/WPA2 Passphrase			
O 802.1x	802.1x EAP Type:	LEAP	×.
OPre-Shared Key (Static W	EP)		
🔿 None			
Continue	Allow A secondation 1	n Mixed Cells	
computer 12		o mixed cen	

- 6. Enter the encryption key in the field provided. Please note that this key must be the same as the one that you had configured for your wireless router.
- 7. Click on the **OK** button to update the changes.

Define WPA/WPA2 Pre-Shared Key		? 🗙
Enter a WPA/WPA2 passphrase (8 to 63 ASCII	or 64 hexadecimal characters)	
1234567890		
	OK Cano	el

Proceed to your **Current Status** tab to monitor the connection between the router and the wireless client (PC2).



Alternatively, you can also check the connection from the MS-DOS Prompt. From PC2, simply proceed to the **Start** Menu, **Run**... and type in *cmd*. Click on the **OK** button.

In the MS-DOS Prompt window, type *ping 192.168.168.1 –t*, whereby this IP address belongs to your access point.

When the screen appears: Pinging 192.168.168.1: bytes=32 time=2ms TTL=128 Pinging 192.168.168.1: bytes=32 time=2ms TTL=128 Pinging 192.168.168.1: bytes=32 time=2ms TTL=128

This indicates that the connection between the access point and the wireless client has been established successfully!

4.2 Profile Management

This option allows you to manage your profile(s), set your security options, and scan for other wireless networks.

Current Status Profile Management Diagnostics wireless-AP Madiy default Modify Any Remove Activate Activate Details Infrastructure Network Type: Infrastructure Security Mode: None Network Name (SID): Any Network Name 2 (SSID2): cempty> Network Name 3 (SSID3): cempty>	ction Options Help	
wireless:AP New default Modify Any Modify Petais Remove Network Type: Infrastructure Security Mode: None Network Name (SSID): Any Network Name 2 (SSID2): empty> Network Name 3 (SSID3): scan	Current Status Profile Management Diagnostics	
default Modify Arv Remove Activate Activate Details Import Network Type: Infrastructure Security Mode: None Network Name (SID): Any Network Name 2 (SSID2): cempty> Network Name 3 (SSID3): cempty>	wireless-AP	New
Details Activate Network Type: Infrastructure Security Mode: None Network Name (SSID): Any Network Name 2 (SSID2): <empty> Network Name 3 (SSID3): <empty></empty></empty>	default <u>Any</u>	Modify
Details Infrastructure Security Mode: None Network Name (SSID): Any Network Name 2 (SSID2): <empty> Network Name 3 (SSID3): <empty></empty></empty>		Remove
Details Infrastructure Import Security Mode: None Export Network Name (SSID): Any Export Network Name 2 (SSID2): <empty> Scan Network Name 3 (SSID3): <empty> Scan</empty></empty>		Activate
Network Type: Infrastructure Import Security Mode: None Import Network Name (SSID): Any Export Network Name 2 (SSID2): <empty> Scan</empty>	🕝 Details	
Security Mode: None Network Name (SSID): Any Network Name 2 (SSID2): <empty> Network Name 3 (SSID3): <empty></empty></empty>	Network Type: Infrastructure	Import
Network Name (SSID): Any Network Name 2 (SSID2): <empty> Network Name 3 (SSID3): <empty></empty></empty>	Security Mode: None	
Network Name 2 (SSID2): <empty> Network Name 3 (SSID3): <empty></empty></empty>	Network Name (SSID): Any	Export
Network Name 3 (SSID3): <empty></empty>	Network Name 2 (SSID2): <empty></empty>	Scan
	Network Name 3 (SSID3): <empty></empty>	

New...

Click on **New** button to create a new profile. Enter the profile name (a unique name to identify this profile), a client name and the SSID of the wireless network to connect to. Note that the **Client name** refers to the name that is registered to your PC. You can enter up to 3 different SSIDs in order of preference, per profile. We are using *ABC* as the profile name and *APP* as the SSID1

Profile Management	
For details on how to set the different authentication and encryption types available under the Security Tab, kindly refer to Chapter 7 "Types of Authentication and Encryption mode"	ced ABC shawn APP Cancel K b Cancel

Click on the **OK** button to update the changes.

Notice that ABC has been added to the profile list.

ent Status	Profile Management	Diagnostics
wireless	-AP	
default		
Any		
ABC		

Modify...

To modify an existing profile, select the profile that you wish to modify and click on this button. We are using profile: *Any* as an example.

n Options Help rent Status Profile Man	agement Diagnostics	
wireless-AP		New
default		Modify
ABC		Remove
		Activate
Details		
Network Type:	Infrastructure	Import
Security Mode:	None	
Network Name (SSID): Any	Export
Network Name 2 (SSI	D2): <empty></empty>	[Som
Network Name 3 (SSI	D3): <empty></empty>	scan
The second second		Order Profiles

Remove

To delete an existing profile, select the particular profile that you wish to delete and click on this button. We are using profile: *default* as an example.

Note that the active profile (the profile that you are currently using) cannot be deleted!

	A Atheros Client Utility - Current Profile: Any	? 🛛
	Action Options Help	
	Current Status Profile Management Diagnostics	
	wireless-AP	New
	default Se Any	Modify
	ABC	Remove
A ativa profile		Activate
indicated by this	Details Network Type: Infrastructure Security Mode: None	Import
icon cannot be	Network Name (SSID): adfa	Export
deleted!	Network Name 2 (SSID2): <empty> Network Name 3 (SSID3): <empty></empty></empty>	Scan
	Auto Select Profiles	Order Profiles

Activate	
Activate	

To activate a profile, select the profile and click on this button. We are using profile: *wireless-AP* as an example.

Options Help		
ent Status Profile Mana	gement Diagnostics	
wireless-AP		New
Any ABC		Modify
		Remove
		Activate
Details		
Network Type:	Infrastructure	Import
Security Mode: Network Name (SSID):	WPA Passphrase wireless-AP	Export
Network Name 2 (SSIE)2): <empty></empty>	Scan
Network Name 3 (SSI)3): <empty></empty>	- Sodin
Auto Select Profiles		Order Profiles

Once a profile is activated, this from will appear next to the profile name: *wireless-AP*.

Options Help	mont D'ann th	
wireless-AP		New
Any よえ ABC		Modify
		Remove
		Activate
Details		
Network Type: Security Mode:	Infrastructure WPA Passobrase	Import
Network Name (SSID):	wireless-AP	Export
Network Name 2 (SSID)	2): <empty> 3): <empty></empty></empty>	Scan
Network Name 3 (SSID)		

Export...

This function allows you to save the settings of your profile onto disk. Select the profile that you wish to save and click on this button. We are using profile: *ESSID* as an example.

Choose the folder to save to, enter the name under which to save the profile and click on the **Save** button.

Export Profi	le		? 🛛
Save in: 🗇	DOCUMENT (D:)	 G Ø 	• 📰
1-Manual 4-M-Manag b4a550be7 FMlist Outlook Exp Program Fil	e Contraction- e Contraction- a7 press es		
File name:	ESSID		Save
Save as type:	Config files (*.prf)	~	Cancel

Now, your profile is saved to your selected folder.

Import	

This function allows you to retrieve a saved profile from disk. We are using profile: *ESSI*D as an example.

Go to the folder where you have saved your profile, select *ESSID.prf* and click on the **Open** button.

Import Prof	ile		? 🛛
Look in: 🥯	DOCUMENT (D:)	v G 🕫	• 🔝 🔁
1-Manual 4-M-Mana b4a550be FMlist Outlook E: Program F	quotation ge intools 7a7 ess press iles		
File name:	ESSID		Open
Files of type:	Config files (*.prf)	~	Cancel

Notice that the profile: ESSID has been imported to the list of profiles.

ent Status Profile Manager	nent Diagnostics	
wireless-AP		New
Any ABC ESSID		Modify
		Remove
· \\		
		Activate
Details		Activate
Details Network Type:	Infrastructure	Activate
Details Network Type: Security Mode:	Infrastructure None	Activate
Details Network Type: Security Mode: Network Name (SSID):	Infrastructure None ESSID	Activate
Details Network Type: Security Mode: Network Name (SSID): Network Name 2 (SSID2):	Infrastructure None ESSID <empty></empty>	Activate

Order Profiles...

If you have created several profiles, this function allows you to establish the priority order in which the network adapter should try to connect to a WLAN. If the network adapter is unable to connect to a wireless network through the $1^{\mbox{st}}$ profile, it will then try to connect using the $2^{\mbox{nd}}$ profile and so on.



When auto profile selection is enabled, the network adapter scans for available wireless networks and will connect to the highest priority profile that matches the networks detected.

To do so, simply click on the Add button

 Details

 Network Type:
 Infrastructure

 Security Mode:
 WPA Passphrase

 Network Name 1 (SSID1):
 wireless-AP

 Network Name 2 (SSID2):
 <empty>

 Network Name 3 (SSID3):
 <empty>

 Auto Select Profiles

from the Available Profiles list. Refer to the screen shown below.

Please note that you need AT LEAST TWO profiles to activate the **Auto Select Profiles** function; and that each of your profile must connect to at least one **Network Name (SSID)**.

MITGIOSS-AP	A.1.1
Any ABC ESSID	ADD
23510	
ito Selected Profiles:	
ito Selected Profiles:	Move up
Ito Selected Profiles:	Move up Move down

Notice that when a selected profile has been added, it will be transferred to the **Auto Selected Profiles** list.

Select and click on the Add button to transfer another profile.

o Prome Selection Management	[7
vailable Profiles:	
Any ABC ESSID	Add
uto Selected Profiles:	
wireless-AP	Move up
wireless:AP	Move up Move down
wireless-AP	Move up Move down Remove
(wrelesssAP	Move up Move down Remove

You need to transfer at least two profiles to the **Auto Selected Profiles** list to activate the **Auto Select Profile** function.

Transmit Power Level

Specifies the wireless transmit power to be used. Reducing the power level lowers the risk of interference with other nearby wireless devices and conserves battery power but decreases radio range.

Power Save Mode (Only applicable to Infrastructure mode)

This feature reduces power consumption by the PCI adapter. There are 3 options for this mode:

• Off

The power management is disabled and the card consumes full power from the computer.

Normal

The driver turns off the power to the adapter for brief periods over briefly spaced time intervals.

Maximum

The driver turns off power to the adapter for longer periods over more widely spaced time intervals.

The guideline for choosing between the **Normal** and **Maximum** options:

The PCI adapter wakes up more often and responds sooner to network requests in **Normal** mode than in **Maximum** mode; and the **Maximum** mode consumes less power than **Normal** mode.

Network Type

Select either $\ensuremath{\mathsf{Infrastructure}}$ if you are connecting to the WLAN using an access point

802.11b Preamble

The preamble is part of the IEEE 802.11b physical layer specification. It is mandatory for all 802.11b devices to support the long preamble format, but they may optionally support the short preamble. This PCI adapter supports both the short and long preambles.

Short & Long

This option allows communication with other 802.11b devices that support short preamble to boost the throughput.

Long Only

If your device is having trouble to communicate with other 802.11b devices, you may try to select the Long Only option.

802.11 Authentication Mode (Only applicable to Infrastructure mode, after you have enabled the encryption mode)

Select which mode the wireless adapter uses to authenticate to an access point:

Auto

Causes the PCI adapter to attempt authentication using shared authentication. It then switches to open authentication if shared authentication fails.

Open

Enables the PCI adapter to attempt authentication regardless of its WEP settings. It will only associate with the access point if its WEP settings match those of the access point.

• Shared

Allows the adapter to authenticate and associate only if it has the same WEP settings as the access point

Appendix 1.Technical Specifications

Network Protoco	I, Standards and Electrical Emissions
Industry tandards	 IEEE 802.11g IEEE 802.11b
	Performance
Operatir J Frequency	• 2412~2462MHz
Modulat⊳n	 Binary Phase Shift Keying (BPSK) Quadrature Phase Shift Keying (QPSK) Complementary Code Keying (CCK) 16 QAM 64 QAM DBPSK DQPSK
Antenna iype	External 2dBi antenna and an SMA-type connector
Network nterface	PCI 2.3 compatible

Phys	ical and Environment
Environm ental Requirements	
Op∉ ating temperature:	0°C to 50°C
Sprage temperature:	-20°C to 70°C
)perating humidity:	10% to 70% RH
Non operating humidity:	5% to 90% RH
Power C nsumption	3.3V DC, 2A
Physical Jimension	60mm x 46 mm x 14 mm (LxWxD)