Quick Install Guide

Compex Wireless-AG Mini PCI Adapter

WLM54AG

Version 1.1



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1. Introduction



This mini PCI adapter, Compex WLM54AG contains a dual-mode single chip MAC/BB/Radio for IEEE 802.11a, 11g and 11b Wireless LAN. It can support high-speed data transmission of up to 54Mbps in the 2.4GHz and 5GHz frequency bands based on 802.11b/g and 802.11a mode respectively.

Based on the latest industry standard Wi-Fi Certified IEEE 802.11a/b/g specification, the Compex WLM54AG offers maximum channel speeds of up to 54 Mbps. It supports key security features like Wi-Fi Protected Access (WPA), WPA2, WEP and 802.1x.

You can find this adapter that is seated inside the wireless products such as the WPE54AG. WLM54AG can be removed from or inserted onto the PCBA of the WPE54AG.

2. Package Content

Compex WPE54AG retail package contains the following items:

- 1 x Compex WPE54AG
- 1 x External Power Adapter
- 1 x 3dBi SMA Antenna
- 1 x Base Stand
- 1 x RJ45 MDIX cross-over Ethernet cable
- 1 x Quick Install Guide with Warranty Registration Form
- 1 x Product CD (including Quick Install Guide, User's Manual, Firmware Recovery Tool & Utilities)

3. Hardware Installation

- 1. Connect one end of the RJ45 crossover Ethernet cable to your PC and another end to the Ethernet port of your Compex WPE54AG.
- 2. Next, attach the power adapter supplied in the packaging to the power point.
- 3. Connect the power plug onto the socket on your Compex WPE54AG.



4. Power ON your Compex WPE54AG and your PC. Notice that the LAN Link/ACT and Power LEDs have lighted up. This indicates that the connection has established successfully between your Compex WPE54AG and your PC.

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4. Access to Web-based Interface

Compex has developed a powerful uConfig utility which provides you hassle-free access to the web-based configuration page. To do so, simply

- 1. Insert your Product CD into your CD-ROM drive. Go to **Utilities** section and select **uConfig** to run the program.
- 2. The following screen shot will appear. Select **NetPassage WPE54AG** and click on **OpenWeb** button to access to the authentication page.

Ralink RT2500 W Compex Freedom Compex Freedom	MAL 00-0F-3D-E0-7B-01 00-80-48-E9-0D-05 00-80-48-E9-0D-05	0.0.0 192.168.168.100 192.168.100.100	Mask 0.0.0.0 255.255.255.0 255.255.255.0	Gateway	
orward/Route List					
Network Destinatio	n Netmask	Gateway	Interface	Metric	
127.0.0.0 192.168.100.0 192.168.100.100 192.168.100.255	255.0.0.0 255.255.255.0 255.255.255.25 255.255.255.25	127.0.0.1 192.168.100.100 5 127.0.0.1 5 192.168.100.100	127.0.0.1 192.168.168.100 127.0.0.1 192.168.168.100	1 20 20 20	
ompex Products List	Current Selected 1				
Product Model	System Name	MAC	IP		Me
NetPassage WPE544	AG Wireless Access	s Point 00-80-48-21	ee-01 192.16	58.168.1	##

3. The password is pre-configured as *password* in the field provided. Click on **Log On!** button to access to the main page.

s Point Managemen
r password:
Log On !

After accessing to the main page of your Compex WPE54AG, you can start doing your configuration

5. Basic Configuration for Compex WPE54AG

- 1. To handle automatic IP addressing, go to Management Port under CONFIGURATION section.
- 2. Go to **DHCP Server** option and select **Enable** radio button. Click on **Apply** button to update the changes.

IP Address	192	168	168].[1
Network Mask	255	255	255	. 0
Management Gateway Ip	0	0	0	.0
DHCP Start IP Address	192	168	168	. 100
DHCP End IP Address	192	168	168	. 254
DHCP Gateway IP Address	0	0	0	.0
Always use these DNS ser	vers:			
Primary DNS IP Address	0	0	0	. 0
Secondary DNS IP Address	0	0	0	. 0
DHCP Server	⊙ En	able O	Disable	

Now, your Compex WPE54AG acts as a DHCP Server which can assign IP address to your PC/clients.

6. WLAN Basic Setup for Compex WPE54AG

- 1. To configure your Compex WPE54AG for your wireless user, go to WLAN Basic Setup from the CONFIGURATION section.
- 2. From your Access Point Setup window, key in the ESSID that you intend to use for your wireless network.
- 3. You may leave the frequency channel as **SmartSelect**. This allows your access point to select the channel automatically.
- 4. Leave the remaining settings as default and click **Apply** button to update the changes.

The Current Mode Access	Point Change	
Access Point Name	WPE54AG	
ESSID	wpe54ag	
Wireless Profile	802.11b/g mixed 💌	
Country	NO COUNTRY SET Edit	
Channel	SmartSelect	
Tx Rate	Fully Auto 💌	
RTS Threshold	2346 (2346:256~2346)	
Frag Threshold	2346 (2346:256~2346)	
Closed System	Disable Y	
Transmit Power	Full	
Radio Off When Ethernet No Li	nk Disable 💌	
Use External Antenna Only		

7. TCP/IP Configuration for wireless clients

Generally, automatic IP addressing should be configured for your wireless client PCs or notebooks. You may configure the TCP/IP settings of Microsoft windows XP as follows:

- 1. From your desktop, right click on **My Network Places** and select **Properties**.
- 2. Next, right click on your Ethernet Adapter go to **Properties**.



3. Highlight **Internet Protocol (TCP/IP)** and click on **Properties** button.

Concernant Indextoor States	ation Advanced	
Connect using:		
👼 Compex Fre	edomLINE PCI Fast Ether	net Adapter (21143-1
		Configure
This connection u	ses the following items:	
NWLink	NetBIOS	~
🗹 🔭 NWLink I	IPX/SPX/NetBIOS Compa	tible Transport Prot
🗹 🔭 Internet F	Protocol (TCP/IP)	
		>
07010		
I <u>n</u> stall	Uninstall	Properties
I <u>n</u> stall Description	Uninstall	Properties
Install Description Transmission Co wide area netwo across diverse i	Uninstall ontrol Protocol/Internet Pro ork protocol that provides o interconnected networks.	Properties tocol. The default communication
Install	Uninstall	Properties

4. Select the radio buttons for **Obtain an IP address automatically** and **Obtain DNS server address automatically**. Click **OK** button to update the changes.

ieneral	Alternate Configuration	
You ca this cap the app	n get IP settings assigned a ability. Otherwise, you neer ropriate IP settings.	automatically if your network supports d to ask your network administrator for
<u>o o</u> l	otain an IP address automa	tically
OU;	e the following IP address:	
IP ac	ldress:	· · · · ·
Sybr	iet mask:	
Defa	ult gateway:	
00	gtain DNS server address a	utomatically
OU	se the following DNS server	r addresses:
Erefe	erred DNS server.	
Alter	nate DNS server	
		Advanced
		OK Canc

Next, you may set up Windows XP's Wireless Network Connection as follows:

5. Right click on Wireless Network Connection corresponding to the Wireless Ethernet Adapter you wish to connect to your Compex WPE54AG, and click on Properties.

Ralink	Disable View Available Wireless Networks Status Repair
	Bridge Connections
	Create Shortcut Delete Rename
	Properties

6. Go to Wireless Networks tab and click on Add.. button.

neral	Wireless Networks	Advanced		
]Use	Windows to configur	e my wireles:	s netwo	rk settings
Availa	able <u>n</u> etworks:			
Toc	onnect to an available	network, cli	ck Con	figure.
i	ts26g611-2		~	Configure
1.	Any 			Defresh
1.00	COMPRYNING		~	nellesti
4	compexuur		¥	
Prefe	rred networks:		<u>×</u>	ngilesi
Prefe Autor	rred networks: natically connect to a	vailable netv	vorks in	the order listed
Prefe Autor belov	rred networks: natically connect to a v:	vailable netv	vorks in	the order listed
Prefe Autor belov	ried networks: natically connect to a v.	vailable netv	vorks in	the order listed
Prefe Autor belov	red networks: natically connect to a v.	vailable netv	vorks in	the order listed
Prefe Autor belov	ried networks: natically connect to a r.	vailable netv	vorks in	the order listed Move <u>up</u> Move <u>down</u>
Autor belov	ried networks: natically connect to ar x Add	vailable netv	vorks in	the order listed Move up Move down
Prefe Autor belov	about setting up wirel	vailable netv	vorks in	the order listed Move up Move down
Prefe Autor belov	about <u>setting up wirel</u>	vailable netv ve:) (P less network	vorks in	the order listed Move up Move down

7. Next, enter the **Network name** (**SSID**) which must be the same as the ESSID that you input earlier for your access point.

Wireless network prope	rties	? 🔀
Association Authentication		
Network name (SSID):	WPE54AG	
Wireless network key	<u>u</u>	
This network requires a k	ey for the following:	
Network <u>A</u> uthentication:	Open	*
Data encryption:	Disabled	~
Network key:		
Confirm network key:		
Key indeg (advanced)	1	
The key is provided for	or me automatically	
This is a computer-to-co access points are not u	mputer (ad hoc) network; wire sed	less
	ОК	Cancel

Ensure that the Network name (SSID) value is the same for all wireless clients in the same wireless network.

For now, you may leave the other information as its default settings. Network Authentication: **Open** Data encryption: **Disabled**

For details in configuring your Compex WPE54AG, kindly refer to the User's Manual stored in the Product CD.

Panel Views and Descriptions 8.



	Features	Status	and Indications		
1	LAN Link/Act LED	Steady Yellow	Compex WPE54AG is operating at the speed of 10Mbps		
		Steady Green	Compex WPE54AG is operating at the speed of 100Mbps.		
2	WLAN Link/Act LED	Steady Green More than 1 wi client is present i wireless network.			
		Blinking Green	Activity is detected in the wireless network.		
3	Diagnostic LED	Steady Green	The device is in access point or gateway mode.		
		Blinking Green	The device is booting.		
		Off	The device is in Client mode.		
4	Power LED	Steady Blue	Power is supplied to the device.		
		Off	No power is supplied to the device.		
5	External Antenna	Rotatable antenn	a		
6	LAN RJ45 Ethernet Port	Using RJ45 Ethernet cable for connection.			
7	DC 3.3V 3A	Power input of 3	.3VDC		
8	Reset button	Push button:			
		2s to reboot	your device		
		• between 2s	to 10s to restore to its		
		factory defa	ult		
		 > 10s for op 	erating mode switch		

This document may become superseded, in which case you may find its latest version at:

http://www.compex.com.sg/prodspec.asp?f=Manual&s=1

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POWER

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 Increase the separation between the computer and receiver. Consult the dealer or an experienced radio / TV • ٠
- receiver is connected. 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) (2)

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

Products that contain a radio transmitter are labeled with FCC ID and may also carry the FCC logo

Coution: Exposure to Radio Frequency Radiation. To comply with the FCC RF exposure compliance requirements, the following antenna installation and device operating configurations must be satisfied:

- For configurations using the integral antenna, the separation distance between the antenna(s) and any person's body (including hands, wrists, feet and ankles) must be at least 2.5cm (1 inch). For configurations using an approved external antenna, the separation distance between the antenna and any person's body (including hands, wrists, feet and ankles) must be at least 20cm (8 inch).
- The trans itter shall not be collocated with other transmitters or antennas.

ICES 003 Statement

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ICES 003 Statement
This Class B digital appratus complies with Canadian ICES-003.
DECLARATION OF CONFORMITY: Compex, Inc. declares that the product:
Product Name: Compex Wireless-A/G Dual-Band Network Access Point
Model No: WPE5AAG conforms to the following Product Standards:
<u>Radiated Emission Standards</u>: 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.
<u>Conducted Emission Standards</u>: 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.
<u>Conducted Emission Standards</u>: ETSI EN 300 826. Nov. 1997.
<u>Immunity Standards</u>: ETS 801-3; IEC 801-4
Locy 24, 1005; A44, 1006; A44, 1007. Introducty Contracting, ICC 601-7, ICC 60 Address:840 Columbia Street , Suite B Brea, CA 92821, USA

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WARRA Register via the Int	ANTY REGISTRATI	ON CARL) com.sg	(M-0088-V2.4C)	COMPEX networks@work		
To activate the warranty, please complete this card and return to Compex within ninety (90) days from the date of purchase.							
Please e-mail thi	s warranty card to support@	compex.com	.sg.				
Product:	Purchase Date:	Model:		Serial No:			
Name:			E-mail				
Company:							
Address:							
Postal/Zip Code:			Counti	iy:			
Phone: ()							

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