

Quick Install Guide

Wireless-AG 54Mbps XR™ Access Point (Compatible with Compex PoE)

WP54AG 1a



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1: Introduction

The Compex WP54AG Wireless-AG 54Mbps XR[™] Access Point is a highperformance AP that is designed for enterprise and public access application. Embedded with Atheros chipset, it boasts network robustness, stability and wider coverage for network connectivity. Compliant with IEEE 802.11a/b/g standards, WP54AG supports high-speed data transmission of up to 54Mbps at 2.4GHz.

WP54AG is capable of operating in 6 different modes like Access Point Bridging, Access Point Client, Gateway, Wireless Routing Client, Point-to-Point and Pointto-Multi Point that makes it suitable for a variety of wireless applications. By supporting multiple modes, WP54AG is able to suit the different deployment requirements. Network administrators can also make use of the SNMP feature included in the web management application for easy user setup. Equipped with an SMA antenna and Long Range Parameter Settings, WP54AG provides a wider coverage for your network. An integrated Power over Ethernet (PoE) allows WP54AG to be used in areas where power outlets are not readily available.

To protect your security and privacy, WP54AG is armed with many enhanced wireless security features such as Wi-Fi Protected Access (WPA), WPA2, MAC Address Filtering, IEEE 802.1x Authentication and 64/128-bit WEP (Wired Equivalent Privacy) and even WPA in Client Modes to ensure privacy for the heterogeneous mix of users within the same wireless LAN, while maintaining full access to the establishment's resources.

WP54AG also incorporates unique features such as – the Parallel Broadband feature that allows bandwidth aggregation and fail-over redundancy capability. Long-Range parameter settings provides WP54AG with the ability to auto-calculate parameters such as slot time, ACK time-out and CTS time-out on the wireless device based on range requirements entered to achieve a longer range. Spanning Tree Protocol (STP) that provides the wireless network with extra redundancy and reliability; the network will auto-reconfigure when there are changes to the network connections. The Pseudo VLAN feature enables the creation of wireless isolated nodes or workgroups between wireless clients to increase network privacy in a wireless LAN installation.

1

Packaging Content

Actual product appearance may slightly differ depending on the hardware version.



2: Let's Get Going-Hardware Setup

Compex WP54AG can be powered using either the power adapter provided or the Compex PoE Injector. The installation process for both options is described below.

Method One: Using power adapter to supply power to the unit



Attach the power adapter to the main electrical supply, and connect the power plug into the socket of the Compex WP54AG.



Power ON your PC. Notice that the **Power** and Port 1 or 2 (depending on which port you have connected the RJ45 Ethernet cable to) LEDs have lighted up. This indicates that the connection has been established successfully between your Compex WP54AG and your PC.

Method Two: Using Compex PoE to supply power to the unit

Compex Power-Over-Ethernet (PoE) is fully compatible with our Compex WP54AG. This accessory supplies operational power to the wireless AP via the Ethernet cable connection.

Users who have already purchased the Compex PoE and who wish to use it to supply power to the Compex WP54AG may follow the installation procedures as shown below:



Step 2

Use an RJ45 Ethernet cable to connect one end of the cable to the Ethernet socket of the Injector and the other end to one of the LAN ports of Compex WP54AG.

Warning:

When one port is used for PoE, the other port cannot connect to any other network device.



Next, connect the RJ45 Ethernet cable attached to the Compex PoE Injector to your PC's Ethernet network adapter.

Once you have finished configuring your WP54AG, you can connect the PoE Injector's RJ45 Ethernet cable to your network device, such as to a switch or hub.



Connect the power adapter supplied in the Compex PoE kit to the main electrical supply and the power plug into the socket of the injector.

Note:

The voltage and current supplied to the Compex WP54AG power adapter and the Compex PoE kit power adapter are different. Do not interchange the power adapters.



Now, turn on your power supply. Notice that the **Power** and **Port 2** (according to the picture illustration) LEDs have lighted up. This indicates that the WP54AG is receiving power through the Compex PoE Injector and that connection between Compex WP54AG and your PC has been established.

3: Access to Web-based Interface

There are two methods to access to the web-based interface of Compex WP54AG:

- Through the Compex Utility uConfig You can access to the web-based interface directly without having to change the IP address of your PC.
- 2. Through your web browser

First, you will need to assign an IP address to your PC, such as 192.168.168.xxx, where x can be any value from 2 to 254, so that it is in the same subnet as Compex WP54AG. Then, enter IP address of Compex WP54AG in the address bar of Internet Explorer and press **Enter**.

Access to the Web interface with uConfig

Compex has developed a powerful uConfig utility that provides hassle-free access to the web-based configuration page.

Step 1				
Insert the Product CD into your CD-ROM drive.				
Step 2				
From the Utilities section, select to install the uConfig utility to your hard disk.				
When the utility has been installed, double-click on the uConfig icon. The following screen will appear, click on the Yes button to proceed.				
uConfig Image: Configure interval and the int				
Do you want to proceed?				

Select NetPassage WP54AG in the **Compex Products List** section and click on **Open Web** button. To retrieve and display the latest device(s) in the list, click on the **<u>Refresh</u>** button.

Breatek RTLE1330001-80-0E-66-37 192-168-88-43 255-255.05 meatek RTLE1330001-80-0E-66-37 192-168-168.22 255-255.255.0 oward/Roate List Status 110 110 Network Destination Netmark Gateway Interface Metric 0.00.0 0.00.0 192-168.86.2 192-168.86.4 20 127/0.00 255.055 127/0.01 1 120-168.86.2 192-168.86.3 20 132-168.86.0 255.055 555.555 555.555 555.555 555.555 192-168.86.3 20	. [
Forward/Route List Network Destination Netmask Gateway Interface Metric 0.0.0.0 192.156.88.2 192.158.88.43 20 20 20 100.1 1 1 192.158.88.43 20 100.1 1 1 192.158.88.43 20 100.1 1 1 192.158.88.43 20 20 100.1 1 1 193.158.88.43 20	. [
Network Destination Netmask Gateway Interface Metric 0.0.0 0.0.0 192.158.98.2 192.158.98.43 20 127.0.0.0 255.00.0 127.0.0.1 1 1 192.158.98.0 255.255.255.0 192.158.98.43 192.158.98.43 20 190.150.00 255.00.0 192.00.1 1 1 20.159.98.43 20	
0.0.0 0.0.0 192168.88.2 192168.88.43 20 127.0.0 255.0.0 127.0.1 127.0.0.1 1 192168.88.0 255.255.255.0 192.168.88.43 192.168.88.43 20 192.168.88.0 255.255.255.0 192.168.88.43 102.06.01 1	
127.0.0.0 255.0.0 127.0.0.1 127.0.0.1 1 192.168.88.0 255.255.255.0 192.168.88.43 192.168.88.43 20 102.169.04.2 255.255.255.0 192.168.88.43 20	
192.168.88.0 255.255.0 192.168.88.43 192.168.88.43 20	
1001000040 DEE DEE DEE 107001 107001 00	
2007 2017 100 00 4 2 2017 2017 2017 2017 127 1111 127 1111 21	
Product Model System Name MAC IP	
"NetPassage WP54Ab" "Wireless LAN Acces UU-80-48-30-00-b8 132.168.168.1	

Step 4

This screen prompts you not to exit your uConfig program while accessing to your web-based interface, or else you will fail to connect to your device. Click on the **OK** button to proceed.



At the authentication page, click on the **LOGIN!** button to enter the main configuration page. The default password is "password".

	eress Externations I one filmingement
	Please enter your password:
Print	LOGINI
	[Forgot your password? - see the User's Guide for instructions]

You will then reach the home page of Compex WP54AG's web-based interface.



Note:

Refer to User's Manual for instructions on how to configure Compex WP54AG for wireless access.

Access to the Web interface manually

If you wish to access to the web interface manually, you need to configure the TCP/IP of your PC. Refer to User's Manual in the Product CD.

If you have forgotten the IP address of your access point, do not worry! Compex has designed another utility program **NpFind** that helps you verify the IP address of your Compex product. You can also find this utility in the Product CD.



From the Product CD, click on Utilities and select NpFind program to run it.

Once your Compex WP54AG has connected to your PC, the program will automatically detect the device and display its IP address.

Router:	router
Name:	wireless AP
IP Address	192.168.168.1

Step 2

Open your Internet browser, enter http://192.168.168.1 in the address bar and hit the **Enter** key from the keyboard.

🖄 Welcome to MSN.com - Microsoft Inter							
File	Edit	View	Favo	rites	Tool	s He	elp
G	Back.	- 6) -	*	2	6	P
Addre:	55	http://	192.16	8.168	3.1/		
	-					2013	

You will then reach the home page of Compex WP54AG's web-based interface.

Note:

Refer to User's Manual for instructions on how to configure Compex WP54AG for wireless access.

4: Panel Views and Descriptions

Front View of Compex WP54AG



	Name		Description
1	C LED (Power)	Steady Blue	The device is powered up.
		Off	No power is supplied to the device.
2	LED (Diagnostic)	Flashing Green	This indicates the flash during power-up. The light will goes off when the diagnostic activity is passed.
3	┗┓ (WAN Link/Act)	Steady Green	WAN connection is enabled.
		Flashing Green	Data transmission at WAN connection.
4	W LED (WLAN Link/Act LED)	Steady Green	At least one wireless client is present.
	,	Flashing Green	Activity is detected in the wireless network.

	Name		Description
5 1 2 LED (Ethernet & 2 LEDs)	1 2 LED (Ethernet Port 1	Steady Green	Ethernet port link is established.
	& 2 LEDs)	Flashing Green	Activity is detected in the network.
		Off	No network connection.

Back View of WP54AG



	Name	Description
6	External Antenna	2dBi SMA antenna
7,8	Ethernet Port 1, 2	Connect to your PC or network switch or hub. If using PoE: Connect to Compex PoE injector

	Name	Description
9	DC Jack	Connect to power adapter (if used).
10	Reverse SMA connector	Connect to external SMA antenna.

Bottom View of Compex WP54AG



	Name	Description
11	Reset Push button	To reboot, press once.
		To reset password, press and hold the button for 5 seconds. The DIAG LED will flash fast for about 5 flashes/sec before releasing the button.
		To restore the factory default settings, press and hold the button for more than 10 seconds. The DIAG LED will flash slowly for about 10 flashes/sec before releasing the button.

5: Technical Specifications

Safety and Electromagnetic Conformance	 FCC Part 15 SubPart B and SubPart C [for wireless module] EN 300 328-2 [for wireless module] EMC CE EN 301 489 (EN300 826) [for wireless module] EN 55022 (CISPR 22)/EN 55024 Class B EN 61000-3-2 EN61000-3-3 CE EN 60950
Standards	 IEEE 802.11a IEEE 802.11b IEEE 802.11g
Performance	 Network speeds dynamically shift between 1,2, 5.5, 11, 12, 18, 24, 36, 48, 54 Mbps Indoor: 20 m (54 Mbps) Outdoor: 80 m (54 Mbps)
Frequency Range IEEE 802.11b: IEEE 802.11g: IEEE 802.11a:	2.4 ~ 2.4835 GHz 2.4 ~ 2.497 GHz 5.15 ~ 5.35 GHz (US and Canada) 5.15 ~ 5.25 GHz (Japan) 5.15 ~ 5.35 GHz & 5.15 ~ 5.35 GHz (Europe)
Wireless Operation Modes	 Access Point Access Point Client Point to Point Point to Multiple Point Gateway Wireless Routing Client
Security	 64 - bit / 128 - bit WEP WPA-EAP, WPA-PSK, WPA2-EAP, WPA2-PSK Pseudo Virtual LAN Tagged VLAN IEEE 802.1x - TLS, TTLS, PEAP, EAP-SIM Wireless MAC address filtering

Network Interface	2 Ethernet ports 10/100 Mbps auto-negotiation		
Modulation Techniques	OFDM (BPSK, QPSK, 16-QAM, 64-QAM), DSSS (BPSK, QPSK, CCK)		
Output Power IEEE 802.11b: IEEE 802.11g: IEEE 802.11a:	20 dBm 19 dBm 17 dBm		
Operating Channels	 11 Channels: US and Canada 13 Channels: Europe 14 Channels: Japan 		
Advanced Wireless Features	 Wireless Distribution System (WDS) Long Distance Parameters Setup Wireless Pseudo VLAN Per Node Per Group Tagged VLAN Adjustable transmit power control (in 1dB steps) 		
Antenna	Detachable 2dBi antenna with SMA connector		
Management	 HTTP Web Management SNMP SNMP (RFC1157) SNMP (RFC1213) 		
Built-in DHCP Server	Yes		
DHCP Reservation	By MAC address		
Configuration Backup & Restore	Yes		
Firmware Upgrade	Yes		
Power Requirements Using Power Adapter: Using PoE:	 Output 9VDC (localized to country of sale) Compex PoE Injector 		
Environment Requirements			

Operating Temp: Storage Temp: Operating Humidity:	0°C to 70°C -15°C to 70°C 5% to 95% RH Humidity (RH – Relative Humidity):
Physical Dimensions	145mm x 132mm x 41mm (H x W x D)

Further Information References

For more details on the WP54AG configuration, please refer to the User's Manual in the accompanying Product CD.

This document may become superseded, in which case you may find its latest version at: <u>http://www.compex.com.sg</u>

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Manual Revision by Ann

Manual Number: M-0524-V1.1C Version 1.1, October 2005

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 gaginst 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:

- antenna.
 - Reorient or relocate the receiving Increase the separation between the computer and receiver.
- Connect the computer into an outlet on a circuit different from that to which the receiver is connected.
- ٠ 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:

- This device may not cause harmful interference, and (1)
- (2) 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.

Caution: 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 a. antenna(s) and any person's body (including hands, wrists, feet and ankles) must be b. 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 transmitter shall not be collocated with other transmitters or antennas.

ICES 003 Statement

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

DECLARATION OF CONFORMITY: Compex, Inc. declares that the product:

Product Name: Compex Wireless-AG 54Mbps XRTM Access Point

Model No.: WP54AG conforms to the following Product Standards:

This device complies with the Electromagnetic Compatibility Directive (89/336/EEC) issued by the Commission of the European Community. Compliance with this directive implies conformity to the following European Norms (in brackets are the equivalent international standards.)

Electromagnetic Interference (Conduction and Radiation): EN 55022 (CISPR 22)

Electromagnetic Immunity: EN 55024 (IEC61000-4-2,3,4,5,6,8,11)

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.

DECLARATION OF CONFORMITY: Compex, Inc. declares that:

The wireless card in this product complies with the R&TTE Directive (1999/5/EC) issued by the Commission of the European Community. Compliance with this directive implies conformity to the following:

<u>EMC Standards:</u> FCC: 47 CFR Part 15, Subpart B, 47 CFR Part 15, Subpart C (Section 15.247); CE: EN 300 328-2, EN 300 826 (EN 301 489-17)

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.

Manufacturer's Name: Compex, Inc. Address: 840 Columbia Street, Suite B Brea, CA 92821, USA

WARRANTY REGISTRATION

CARD

Register via the Internet at http://www.cpx.com or http://www.compex.com.sg

To activate the warranty, please complete this card and return to Compex within ninety (90) days from the date of purchase.

[M-0088-V2.4C]

Please e-mail this warranty card to **support@compex.com.sg**.

Product:	Purchase Date:	Ν	Model:	Serial No:			
Name:		E-mail:					
Company:							
Address:							
Postal/Zip Code:		Country:					
Phone: ()						

Note:

For purchases within U.S.A and Canada, please fax to Compex, Inc. at (714) 482 0332

For purchases outside U.S.A and Canada, please fax to Compex Systems Pte Ltd at (65) 6280-9947

Manual Number: M-0524-V1.1C Version 1.1 October 2005

