



networks@work

# Quick Install Guide

Wireless 54Mbps A+G Dualband Access Point  
With Integrated PoE

NetPassage WP18 1A, 2A, 2B, 2C, 3A, 3B, 3C, 3D  
NetPassage WP18 6A, 6B, 6C, 6D (RoHS-compliant)



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# 1: Introduction

The Wireless 54Mbps A+G Dualband Access Point doesn't just operate in wired network environments, it also upholds simultaneous IEEE802.11a and IEEE802.11b/g connections, as is often required in hotspots and other public Internet access deployment.

The access point is designed to support state-of-the-art security standards such as the Wi-Fi Protected Access (WPA) protocol, the 802.1x authentication standard, and 64/128-bits Wired Equivalent Privacy (WEP) encryption.

This high-performance access point also bears the exclusive uConfig utility and support broadband Internet sharing is an additional function that can be enabled.

When the user chooses to enable routing, additional enhanced functions to the wireless access point operation are available, such as Load Balancing; Fail-Over Redundancy; Parallel Broadband; built-in DHCP server; Virtual Servers based on IP and Port Forwarding; De-Militarised Zone hosts; Packet Filtering; and much more!

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## Packaging Content

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



1 X Access Point



2 x External Antenna



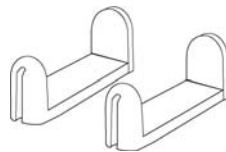
1 x Power Adapter



1 x Read-Me-First Note



1 x Product CD



2 x Rest Foot

## 2: Hardware Setup

The access point can be powered using either the power adapter, or the PoE\* or IEEE 802.3af PoE.

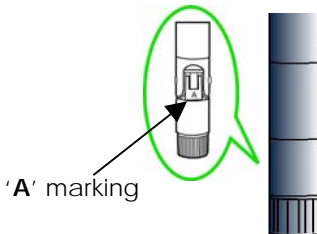
The installation process for the three options is described below.

### Option 1: Using Power Adapter to Supply Power

#### Step 1

Before attaching a pair of external antennas to the access point, take note of the 'A' marking on one of the two antennas.

The antenna with the 'A' marking is the Dualband AG Antenna.



The antenna without the marking is the single-band G Antenna.



Connect the single-band G antenna to Ant-2 on the RIGHT.



Connect the Dualband AG antenna to Ant-1 on the LEFT.



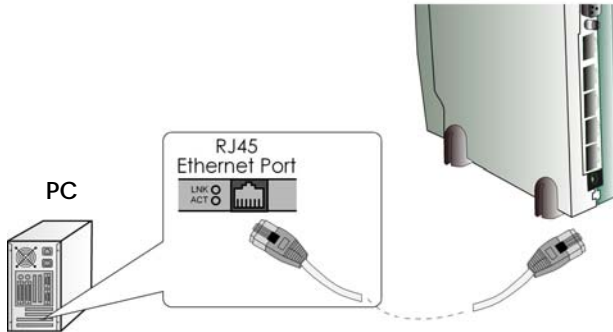
#### Important:

To ensure proper functionality of the access point, these two antennas **MUST NOT** be swapped.

- PoE is available in several models and power outputs. Please contact your supplier for the correct model and power requirements.

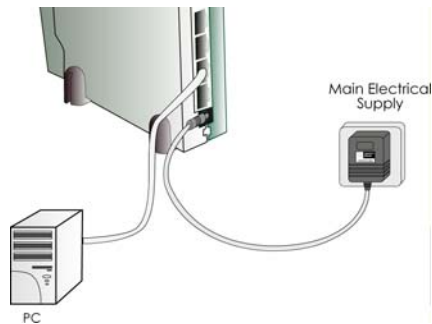
## Step 2

Insert one end of the RJ45 Ethernet cable to any of the LAN ports (1, 2, 3, or 4) on the access point and the other end to your PC's Ethernet adapter.



## Step 3

Attach the power adapter to the main electrical supply and connect the power plug into the socket of the access point.



## Step 4

Power on your PC.

Notice that the **Power** and the corresponding port LEDs have lighted up.

This indicates that connection has been established successfully between the access point and your PC.

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## Option 2: Using PoE to Supply Power

PoE (Power-Over-Ethernet) can be used to power the access point. This accessory supplies operational power to the wireless access point through the Ethernet cable connection and is available separately.

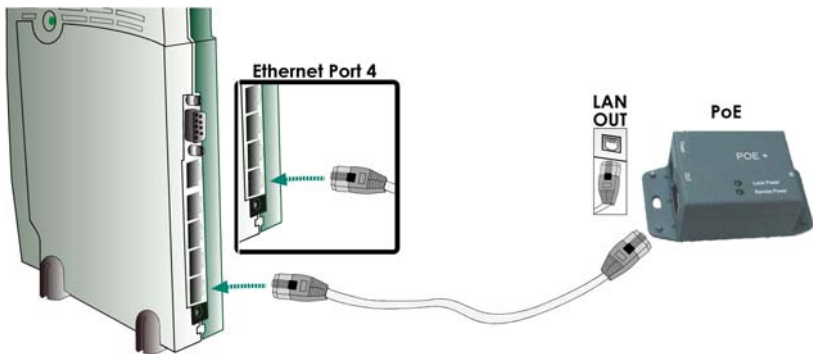
If you wish to use PoE to supply power to the access point, follow the steps below:

### Step 1

Follow the steps described in **Option One**.

### Step 2

Connect one end of an RJ45 Ethernet cable to LAN OUT port of the PoE Injector and the other end to Port 4 of the access point.

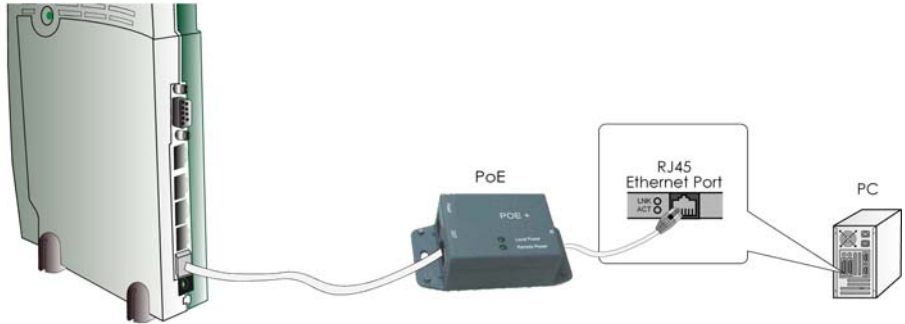


For PoE, the recommended length of the RJ45 Category 5 cable is up to 50 metres.

### Step 3

Connect the RJ45 Ethernet cable attached to the PoE Injector to your PC's Ethernet network adapter.

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

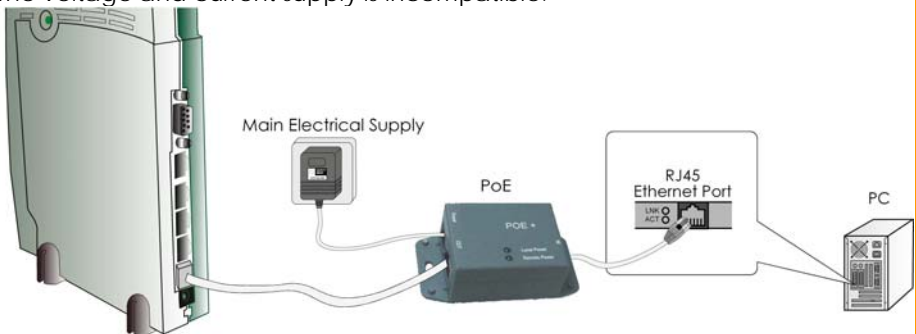


### Step 4

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

**Note:**

DO NOT interchange the access point and PoE power adapters. The voltage and current supply is incompatible.





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### Step 5

Turn on your power supply. Notice that the **Power** LEDs have lighted up. This indicates that the access point is receiving power through the PoE Injector. Notice also that the Port **4** LEDs have lighted up. This indicates that connection between the access point and your PC has been established.

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## 3: Access to Web Interface

There are 2 methods to access the web interface of the access point:

1. **Access to the Web Interface Through Utility – uConfig**  
Access the web interface directly without having to change the IP address of your PC.
2. **Access to the Web Interface Through web browser**
  1. Assign an IP address to your PC so that it is in the same subnet as the access point.  
(Example: 192.168.168.xxx where x can be any value from 2 to 254)
  2. Enter IP address of the access point in the address bar of Internet Explorer and press **Enter**.

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## Access to the Web Interface Through Utility - uConfig

The powerful uConfig utility provides convenient access to the web configuration page.

### Step 1

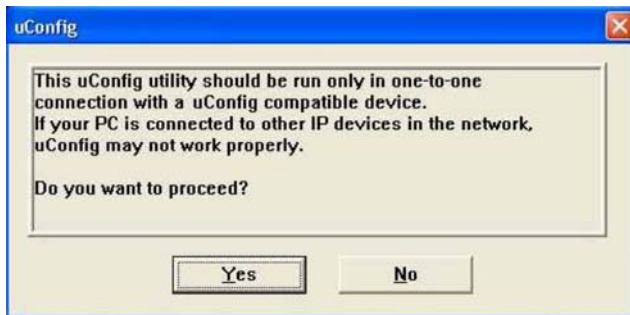
Insert the Product CD into your CD-ROM drive.

### Step 2

From the **Utilities** section, select to install the **uConfig** utility to your hard disk.

After installation, double-click on the **uConfig** icon.

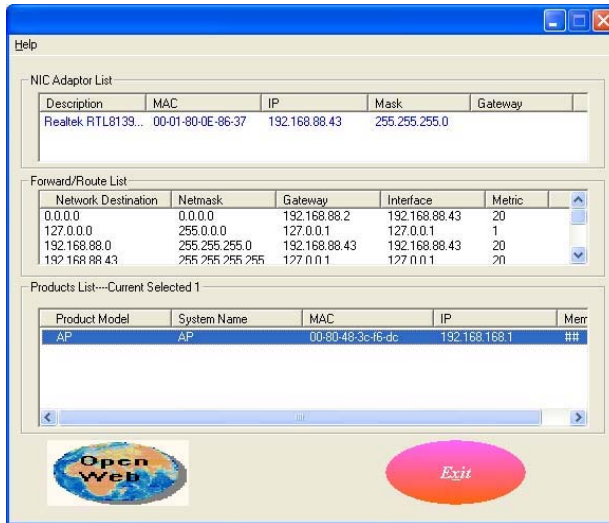
The following screen will appear, click on the **Yes** button to proceed.



### Step 3

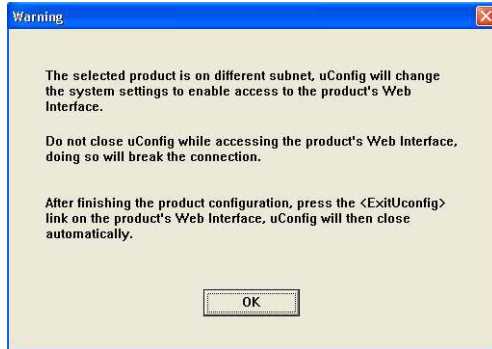
Select the access point in the products list section and click on **Open Web** button.

To update and display the available device(s) in the list, click on the **Refresh** button.



## Step 4

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

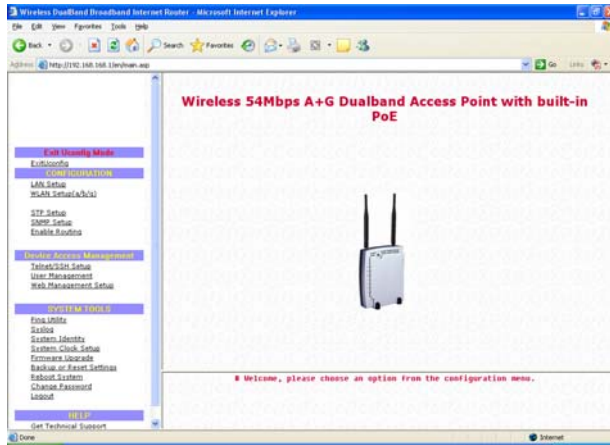


## Step 5

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



You will then reach the home page of the access point web interface.



**Note:**

Refer to User's Manual for detailed instructions on configuring the access point for wireless access.

## Access to the Web Interface Manually

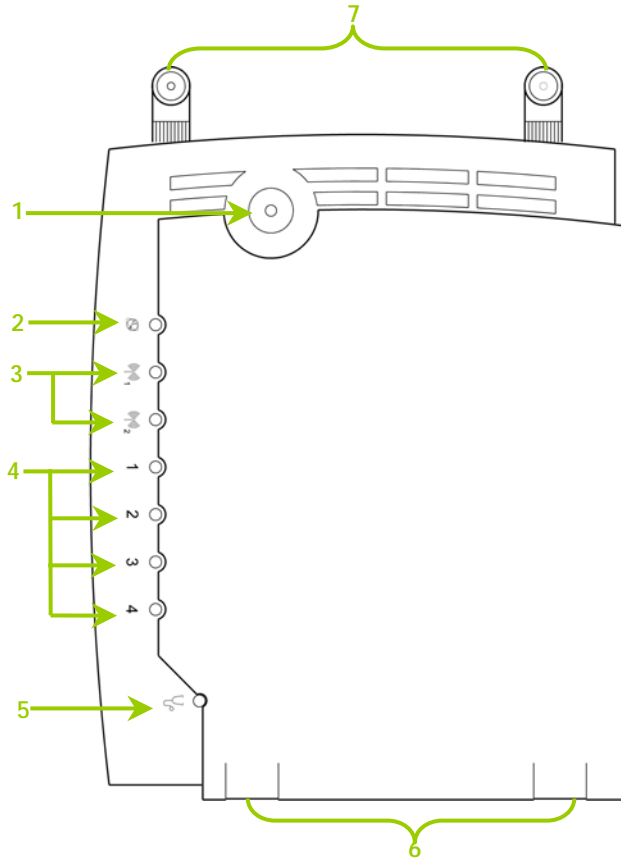
To access the web interface manually, you need to configure the TCP/IP of your PC.

Refer to User's Manual **Chapter 4: Accessing the Web Interface** for details.

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## 4: Panel Views and Descriptions

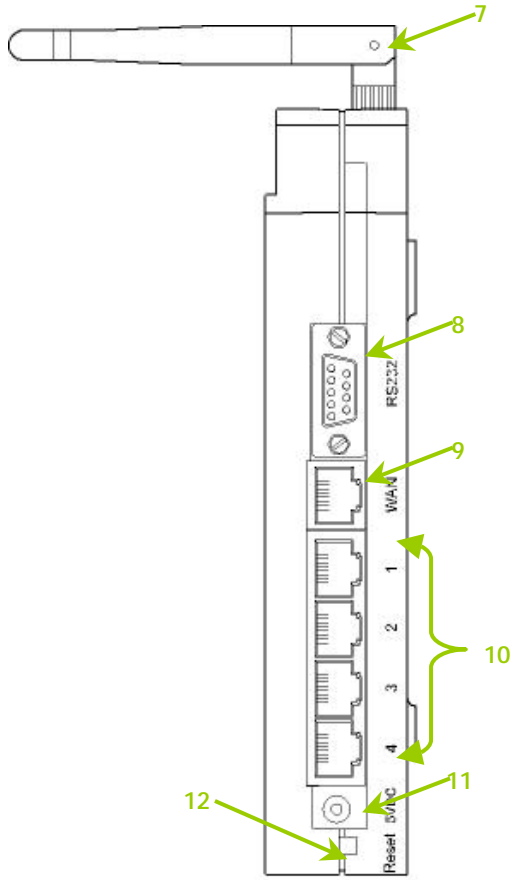
Front View in standing position



Rest feet attached to the bottom of the access point

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Side View in standing position





## Panel Description

Name		Description	
1	Power (LED)	Steady Green	The device is powered up.
		Off	No power is supplied to the device.
2	WAN (Link/Activity LED)	Steady Green	The WAN connection is ON.
		Flashing Green	Data transmission at WAN connection.
3	WLAN (1), (2) (Link/Activity LED)	Steady Green	Wireless interface up and running. Ready for operation.
		Flashing Green	Activity is detected in the wireless network.
4	1, 2, 3, 4 (Link/Activity/Speed LEDs)	These LEDs reflect the status of the integrated Fast Ethernet Switch.	
		They will light up when connected with an Ethernet cable.	
		Steady Green	There is a connectivity link of 100Mbps.
		Flashing Green	100Mbps data transmission is detected at the port concerned.
		Steady Amber	There is a connectivity link of 10Mbps.
Flashing Amber	10Mbps data transmission is detected at the port concerned.		
5	DIAG (LED)	This LED is reserved for diagnostic purposes.	

6	Rest Feet	These rest feet hold the access point in the standing position.															
7	External Antennas	SMA antennas															
8	R232 (Integrated Serial Interface)	Not in use. Reserved for future update.															
9	<b>WAN</b> (Ethernet Port)	10/100Base-T Port connects to Cable/ADSL modem.															
10	<b>1, 2, 3, 4</b> (Ethernet Ports)	Integrated 3-port 10/100Mbps Switching.  Ports 1, 2, 3, and 4 all function as normal Ethernet ports except that Port 4 supports PoE connection.  Connect Port 4 to PoE Injector if you wish to use it to supply power to the unit.															
11	<b>DC Jack</b>	Direct Current jack. If 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 <b>DC Jack</b> of the access point.															
12	<b>Reset</b> (Push Button)	The table below illustrates the use of the <b>Reset</b> button. <table border="1" data-bbox="512 927 1003 1461"> <thead> <tr> <th>Reset Push Button</th> <th>Diagnostic LED</th> <th>Access Point Behavior</th> </tr> </thead> <tbody> <tr> <td><i>Less than 3 sec</i></td> <td>On</td> <td>Reboots.</td> </tr> <tr> <td><i>5 sec</i></td> <td>Fast Blinking</td> <td>Restores the default login password, which is 'password'.</td> </tr> <tr> <td><i>Between 8 sec and 10 sec</i></td> <td>Slow Blinking</td> <td>Restores all the default factory settings including password.</td> </tr> <tr> <td><i>More than 10 sec</i></td> <td>Off</td> <td>Reset cancelled.</td> </tr> </tbody> </table>	Reset Push Button	Diagnostic LED	Access Point Behavior	<i>Less than 3 sec</i>	On	Reboots.	<i>5 sec</i>	Fast Blinking	Restores the default login password, which is 'password'.	<i>Between 8 sec and 10 sec</i>	Slow Blinking	Restores all the default factory settings including password.	<i>More than 10 sec</i>	Off	Reset cancelled.
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## 5: Technical Specifications

<b>Safety and Electromagnetic Conformance</b>	<ul style="list-style-type: none"> <li>• FCC Part 15 SubPart B and SubPart C [for wireless module]</li> <li>• EN 300 328-2 [for wireless module]</li> <li>• EMC CE EN 301 489 (EN300 826) [for wireless module]</li> <li>• EN 55022 (CISPR 22)/EN 55024 Class B</li> <li>• EN 61000-3-2</li> <li>• EN61000-3-3</li> <li>• CE EN 60950</li> </ul>
<b>Standards</b>	<ul style="list-style-type: none"> <li>• <b>IEEE 802.11a</b> 54Mbps, 48Mbps, 36Mbps, 24Mbps, 18Mbps, 12Mbps, 9Mbps, 6Mbps, 1Mbps</li> <li>• <b>IEEE 802.11b</b> 11Mbps, 5.5Mbps, 2Mbps, 1Mbps</li> <li>• <b>IEEE 802.11g</b> 54Mbps, 48Mbps, 36Mbps, 24Mbps, 18Mbps, 12Mbps, 9Mbps, 6Mbps, 1Mbps</li> </ul>
<b>Wireless Operating Range</b>	<ul style="list-style-type: none"> <li>• <b>IEEE 802.11a</b> 85m (54Mbps outdoor), 20m (54Mbps indoor)</li> <li>• <b>IEEE 802.11b</b> 300m (11Mbps outdoor), 100m (11Mbps indoor)</li> <li>• <b>IEEE 802.11g</b> 80m (54Mbps outdoor), 20m (54Mbps indoor)</li> </ul>
<b>Frequency Range</b> <b>IEEE 802.11a:</b> <b>IEEE 802.11b:</b> <b>IEEE 802.11g:</b> (Frequency range for the respective countries can be selected from the world regulatory domain selection in device setup.)	5.180 ~ 5.825 GHz (For all countries) 2.4 ~ 2.4835 GHz 2.4 ~ 2.497 GHz

<b>Network Interface</b>	<p><b>WAN Interface:</b> 1 x 10/100 Mbps</p> <p><b>LAN Interface:</b> 3 x 10/100 Mbps</p> <p><b>Power over Ethernet:</b> 1 x PoE</p>
<b>Security</b>	<ul style="list-style-type: none"> <li>• 64 - bit / 128 – bit WEP</li> <li>• WPA Personal</li> <li>• WPA Enterprise</li> <li>• WPA2-Personal</li> <li>• WPA2-Enterprise</li> <li>• WPA-Auto-Personal</li> <li>• WPA-Auto-Enterprise</li> <li>• Wireless Pseudo Virtual LAN</li> <li>• IEEE 802.1x – TLS, TTLS, PEAP, EAP-SIM</li> <li>• Stateful Packet Inspection Firewall</li> </ul>
<b>Output Power</b>	<p>IEEE 802.11a: 18 dBm</p> <p>IEEE 802.11b: 20 dBm</p> <p>IEEE 802.11g: 20 dBm</p>
<b>Management</b>	SNMP, Web browser, uConfig
<b>Advanced Features</b>	<ul style="list-style-type: none"> <li>• Long Distance Parameters Setup</li> <li>• Dynamic DNS Service (Subscribe service)</li> <li>• STP</li> <li>• HTTPS</li> </ul>
<b>Resiliency</b>	Parallel Broadband
<b>Profile Backup &amp; Restore</b>	Yes
<b>Firmware Upgrade</b>	Yes
<b>Power Requirements</b>	<p>Using Power Adapter:</p> <p>Using PoE:</p> <ul style="list-style-type: none"> <li>• Output 9VDC (localized to country of sale)</li> <li>• PoE Injector or IEEE 802.3af Injector</li> </ul>

<b>Certifications</b>	<ul style="list-style-type: none"> <li>• FCC</li> <li>• CE Mark</li> <li>• Gost</li> <li>• C-tick N 12030</li> </ul>
<b>Environment Requirements</b> <b>Operating Temp:</b> <b>Storage Temp:</b> <b>Operating Humidity:</b>	0°C to 55°C -20°C to 75°C 10% to 80% RH Humidity (RH – Relative Humidity):
<b>Antenna Configuration</b> <b>(WP18 1A)</b>  <b>ANT-1:</b>  <b>ANT-2:</b>	WLM54AG (a/b/g) card MAIN  WLM54AG (a/b/g) card AUX
<b>Antenna Configuration</b> <b>(WP18 2A, 2B, 2C, 3A, 3C, 3D)</b>  <b>ANT-1:</b>  <b>ANT-2:</b>	WLM54AG (a/b/g) card MAIN  WLM54G (b/g) card MAIN

### Further Information References

For more details on the access point 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: <http://www.compex.com.sg>

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Manual Revision by Daniel

Manual Number: M-0508-V1.3C Version 1.3, December 2006

**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.
- 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.
- 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.

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:

- a. 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).
- b. 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 54Mbps A+G Access Point with integrated PoE

**Model No.:** NetPassage WP18 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:

**EMC Standards:** 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 Systems Pte Ltd

**Address:** 135 Joo Seng Road, PM Industrial Building, #08-01, Singapore 368363

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## WARRANTY REGISTRATION CARD

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

[M-0088-V2.4C]



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

Please e-mail this warranty card to [support@compex.com.sg](mailto:support@compex.com.sg).

Product:	Purchase Date:	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

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Manual Number:  
M-0508-V1.3C  
Version 1.3  
December 2006

