



## General Regulatory and Compliance Notices

### Important Safety Instructions

If applicable, when using telephone equipment, basic safety precautions should always be followed to reduce the risk of fire, electrical shock, and personal injury, including the following:

- Do not use this product near water – for example, near a bathtub, kitchen sink, laundry tub, or swimming pool, or in a wet basement;
- Avoid using a telephone (other than a cordless type) during an electrical storm, as there may be a remote risk of electrical shock due to lightning;
- Do not use the telephone to report a gas leak in the vicinity of the leak;
- Use only the power cord and batteries indicated in this manual;
- Do not dispose of batteries in fire, as they may explode – check with local codes for possible special disposal instructions.

#### Telephone Line Cord Caution

To reduce the risk of fire, use only No. 26 AWG or larger (e.g., 24 AWG) UL Listed or CSA Certified Telecommunication Line Cord.

### Coaxial Cable

If applicable, the coaxial cable screen shield needs to be connected to the Earth at the building entrance per ANSI/NFPA 70, the National Electrical Code (NEC), in particular Section 820.93, "Grounding of Outer Conductive Shield of a Coaxial Cable," or in accordance with local regulation.

### For Audio/Video Apparatus

This reminder is provided to call the CATV system installer's attention to Section 820.93 of the National Electric Code (NEC), which provides guidelines for proper grounding and, in particular, specifies that the coaxial cable shield shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Please heed all warnings; read, keep and follow all instructions. Do not use this apparatus near water and only clean with dry cloth.

Do not block any ventilation openings. Install in accordance with the manufacturer's instructions. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus including amplifiers that produce heat.

### FCC Class B Equipment

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 and correct the interference by implementing one or more of the following measures:

- Reorient or relocate the receiving antenna;
- Increase the separation between the equipment and receiver;
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected;
- Consult the dealer or an experience radio or television technician for help.

### Modifications

The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by Actiontec Electronics, Inc, may void the user's authority to operate the equipment.

Declaration of conformity for products marked with the FCC logo – United States only.

This device complies with Part 15 of the FCC Rules and with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

1. This device may not cause harmful interference;
2. This device must accept any interference received, including interference that may cause undesired operation of the device.

### Canadian Industry Regulations

This product meets the applicable Industry Canada technical specifications.

The Class [B] digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulation.

### Important Note

If applicable, this equipment complies with FCC/Industry Canada radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator and your body.

For product available in the USA/Canada market, only channel 1~11 can be operated. Selection of other channels is not possible.

The device could automatically discontinue transmission in case of absence of information to transmit, or operational failure. Note that this is not intended to prohibit transmission of control or signaling information or the use of repetitive codes where required by the technology.

The device for the band 5150-5250 MHz is only for indoor usage to reduce potential for harmful interference to co-channel mobile satellite systems.

The maximum antenna gain permitted for devices in the band 5725-5825 MHz shall comply with the e.i.r.p. limits specified for point-to-point and non point-to-point operation as appropriate.

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

For questions regarding your product or the FCC/Industry Canada declaration, contact:

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# WCB3000 Quick Start Guide

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This Quick Start Guide will walk you through the easy steps to install your WCB3000 Network Adapter. We'll show you how to configure and connect the Adapter.

To do this, you will need the following items:

- A WCB3000 Network Adapter
- An External Power Supply (5VDC/3A; Made by AcBel, Model: WAC010)
- Coaxial cable(s) or Ethernet cable(s)

## **1. Configure the WCB3000 Network Adapter's Wireless Settings**

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You'll need to configure the Adapter's wireless settings first, prior to connecting and installing it in its final location.

### **Step 1**

Get the power supply for the Adapter. Plug one end of the power supply into the Power port on the back of the Adapter.

### **Step 2**

Plug the other end of the power supply in a nearby power outlet.

### **Step 3**

Get an Ethernet cable. Plug one end into one of the four yellow Ethernet ports on the back of the Adapter. Plug the other end into an Ethernet port on your computer.

### **Step 4**

Wait approximately one minute. Then, open a web browser on your computer and enter **192.168.99.254** into the browser's address bar.

### **Step 5**

The Wireless Extender's configuration GUI supports three login accounts with different access rights. The username/password combinations are:

user/user

tech/tech

mso/mso

The table below shows the access rights for each type of login account:

Module	Page Description	Page Name	admin	tech	user
<b>Login</b>	WECB Login	wcb_home.html	Yes	Yes	Yes
<b>Status</b>	WECB Status	wcb_main.html	Yes	Yes	Yes
<b>Wi-Fi</b>	<b>Wireless Network List</b>	wl_network.html	Yes	Yes	Yes
	Basic Setup	wl_basic.html	Yes	No	No
	<b>Wireless Security</b>	wl_security.html	Yes	Yes	Yes
	Multiple SSID	wl_ssid.html	Yes	No	No
	<b>WPS</b>	wl_wfps.html	Yes	Yes	Yes
	Advanced Wireless Setup	wl_adv.html	Yes	No	No
	Wireless Access Control	wl_wac.html	Yes	Yes	Yes
<b>MoCA</b>	<b>MoCA Setup</b>	moca_setup.html	Yes	Yes	Yes
	MoCA Status	moca_status.html	Yes	Yes	Yes
<b>Advanced</b>	IP Management	adv_manage.html	Yes	Yes	Yes
	Change Password	adv_password.html	Yes	Yes	Yes
	Factory Default	adv_default.html	Yes	Yes	Yes
	Firmware Upgrade	adv_upgrade.html	Yes	Yes	Yes

## Step 6

Configure Wireless SSID and password to your own. Please note WCB3000 support both 2.4GHz and 5GHz operating simultaneously. You may configure both radios at the same time.

## **2. Connect the WCB3000 Network Adapter**

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To connect the Adapter properly, please connect the Adapter to your BROADBAND ROUTER via Ethernet or coaxial cable at its final location, after the Adapter is configured.

### **Step 1**

Get a coaxial cable and plug one end into the Coax port on the back of the Adapter. Plug the other end of the cable into a coaxial port in the wall.

### **Step 2**

Power up the WCB3000 Network Adapter by plugging power supply into a nearby power outlet. Wait until the Coax LEDs on both BROADBAND ROUTER and WCB3000 glow solid green.

### **Alternative Configuration**

Instead of Steps 1-2 in the above procedure, get an Ethernet cable and plug one end into a yellow Ethernet port on the back of the WCB3000 Network Adapter. Then, plug the other end into a LAN port on BROADBAND ROUTER.

Congratulations! You have successfully installed WCB3000 Network Adapter.

# Specifications

## **1. Features**

### Wireless

- Dual Band concurrent (2.4Ghz and 5Ghz)
- 2.4/5 GHz IEEE 802.11n 2x2
- External PA for 5Ghz radio
- Supports both 20 MHz and 40 MHz channels
- Full IEEE 802.11 a/b/g/n legacy compatibility with enhanced performance
- Comprehensive wireless network security support that includes WPA, WPA2, and AES encryption/decryption

### Ethernet

- Two 10/100/1000 Gigabit Ethernet ports

### MoCA Coax

- MoCA 1.1 compliant
- Two coaxial F-connectors

## **2. Power requirements**

- Operating voltage: +5V +/- 5% @ 3A max
- Power Dissipation Active: 5V DC @ xxx mA (typical)

## **3. Environmental Operating Range**

- Operating temperature: 0° C to 50° C (32° F to 122° F)
- Humidity: 8-95%, non-condensing

## **4. Dimension and Weight**

- 7.5" (L) x 5.1" (W) x 1.5" (H) 0.75 lb.

## **5. Certifications**

- FCC Part 15 Class B, Class C; Safety UL/cUL