

# Managed 4-Port ECB With Bonded MoCA

Model # ECB5240M

**User Guide** 

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# **Getting Started**

# Introduction

Congratulations for purchasing the Actiontec ECB5240M Managed 4-Port ECB with Bonded MoCA Adapter. The Adapter is a simple, flexible solution for extending a home network. By leveraging the ubiquity of coaxial cabling within the modern home, the Adapter provides multiple Ethernet Internet ports anywhere a coaxial connection is available.

This user manual explains the procedures needed to connect the Adapter.



# **Package Contents**

- ECB5240M Managed 4-Port ECB with Bonded MoCA Adapter
- · Coaxial cable
- Power adapter
- · Ethernet cable
- Quick Start Guide

# Requirements

- Available coaxial port in installation areas
- Available electrical wall socket in installation areas

### **Features**

- Ethernet ports (4; gigabit)
- Coax In coaxial port (v. 2.0)
- *Power*, *Coax*, *Act*, *Link* LEDs:
  - Power LED: glows solid green when Adapter is powered up.
  - *Coax* LED: glows solid green with connection on the *Coax* port.
  - Act, Link LEDs (8; 4 each): located on lower right and left corners of the Ethernet ports; Link LED glows green on connection; Act LED blinks amber when data is transmitted across the port.

# **Connecting the Adapter**

Connecting the Adapter is a relatively simple process. Adapters can be installed throughout the home or office at any location Ethernet Internet access is needed, and an available coaxial port is available.

# Connecting an Adapter

The following procedure assumes that the coaxial network throughout the residence or building is already configured for MoCA and is transmitting the Internet signal.

#### To connect the Adapter:

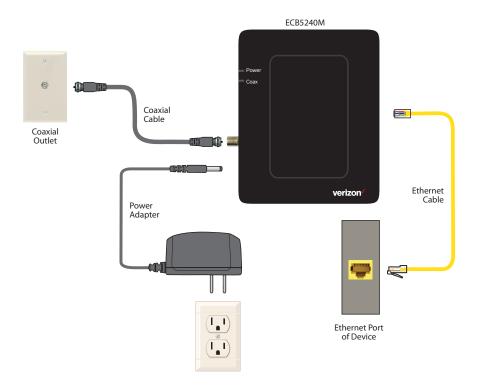
- 1. Get an Adapter.
- 2. Connect the one end of the coaxial cable to the *Coax In* port on the side of the Adapter, and the other to a nearby coaxial wall port.
- 3. Get the Adapter's power adapter. Plug the appropriate end of the power adapter<sup>1</sup> into the *Power* port on the side of the Adapter, and plug the other end into an electrical wall outlet.
- 4. Plug one end of an Ethernet cable into one of the Adapter's four *Ethernet* ports.
- 5. Locate a device to connect to the Internet. Plug the other end of the Ethernet cable into an Ethernet port on the device.

<sup>&</sup>lt;sup>1</sup> External; 12V DC, 1.5A; made by Actiontec; model no. KSASB0241200150HU

#### **Managed 4-Port ECB with Bonded MoCA**

6. Make sure that the *Power* and *Coax* LEDs are illuminated solid green. If the *Coax* LED does not turn green, there is no Internet signal transmitting across the coaxial network, or the router does not support MoCA.

When complete, the setup should look similar to the figure below:



Additional devices can be connected to the other Ethernet ports on the Adapter.

#### **Connecting the Adapter**

### **Connecting to a Coaxial Port in Use**

If another device is already using the coaxial wall port needed to plug in the Adapter, perform the following steps:

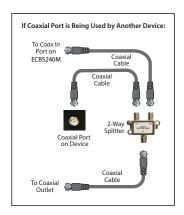
- 1. Get an Adapter.
- 2. Disconnect the coaxial cable from the from the wall port.
- 3. Connect a coaxial cable between the wall port and the single port on a 2-way splitter.
- 4. Connect the coaxial cable removed in step 4 to one of the dual ports on the 2-way splitter.
- 5. Connect a coaxial cable between the Adapter and the other dual port of the 2-way splitter.
- 6. Get the Adapter's power adapter. Plug the appropriate end of the power adapter<sup>2</sup> into the *Power* port on the side of the Adapter, and plug the other end into an electrical wall outlet.
- 7. Plug one end of an Ethernet cable into the Ethernet port on the side of the Adapter.
- 8. Locate the device to connect to the Internet. Plug the other end of the Ethernet cable into an open Ethernet port on the device.

<sup>&</sup>lt;sup>2</sup> External; 12V DC, 1.5A; made by Actiontec; model no. KSASB0241200150HU

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9. Make sure that the Power and Coax LEDs are illuminated solid green. If the Coax LED does not turn green, there is no Internet signal transmitting across the coaxial network, or the router does not support MoCA.

When finished, the setup should look like the figure on page 5, except for the coaxial connections, which should look like the figure below:



Additional devices can be connected to the other Ethernet ports on the Adapter.

# **Connecting Additional Adapters**

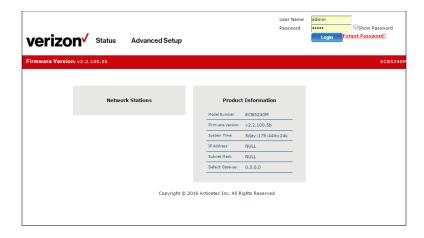
If necessary, additional Adapters can be placed at locations around the home or office that need an Ethernet Internet connection, but currently only have a coaxial port.

# Accessing the Adapter's GUI

The Adapter features an onboard graphical user interface (GUI) that includes user-configurable settings. Some of these settings should be accessed by experienced network technicians only.

To configure the network settings of the Adapter:

- 1. Ensure that the Adapter is powered up and connected to a computer via an Ethernet cable.
- 2. Open a web browser on the computer and enter **192.168.99.254** in the browser's address box.
- 3. The Adapter's *Login* screen appears in the web browser. Enter the Adapter's *Username* and *Password* in the text boxes in the upper right side of the window, then click **Login**.

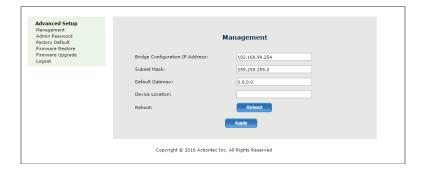


### **Status**

The first GUI screen that appears is the *Status* screen (see figure on previous page), which can also be generated by clicking the *Status* icon in the menu bar. This screen contains basic information about the Adapter's network stations, as well as relevant product information. There are no configurable settings available in this screen.

# **Advanced Setup**

Clicking **Advanced Setup** from any of the Adapter's GUI screens generates the *Management* screen, along with other advanced settings accessed through the menu on the left side. These settings configure various administrative aspects of the Adapter and its GUI. They should be adjusted by an experienced network technicians only.



### Management

The *Management* screen (see figure on previous page) allows the Adapter's IP address settings to be modified. Only experienced network technicians should change these settings.

#### Accessing the Adapter's GUI

## **Change Password**

The *Change Password* screen allows the user to change the password that allows access to the GUI. To change, enter the current password, enter and re-enter the new password, then click **Apply**. Be sure to write the password down and keep it somewhere safe, as it will be needed to access the Adapter's GUI in the future.

Admin Password		
An admin password prevents outsiders from accessing the WECB's firmware settings. After creating a password, you will need to enter every time you access the WECB's firmware GUI.		
1.Enter the admin username and password		
Admin Username:		
Admin Password:		
Re-Type Admin Password:		
2.Click "Apply" to save your changes.		
Apply		

### **Factory Default**

The *Factory Default* screen allows the Adapter's factory default settings to be reapplied, erasing all current settings. Click **Restore Default Settings** to restore the Adapter to its factory default state.



#### **Firmware Restore**

The *Firmware Restore* screen lists the active and backup firmware versions available on the Adapter. Click **Swap Firmware** to switch the active firmware to the backup firmware.



### **Firmware Upgrade**

Actiontec periodically posts firmware upgrades that may include enhancements and/or bug fixes for the Adapter. To upgrade the Adapter's firmware:

- Go to www.actiontec.com/support for information about the latest firmware available for the Adapter. If the version is the same as the current version applied to the Adapter, there is no need to upgrade the firmware. If the online version is newer, download it to a computer.
- 2. Make sure that the computer with the new firmware is connected to the Adapter via Ethernet cable.
- 3. Locate the firmware file by clicking Choose File.
- 4. Select the file, then click **Start to Upgrade**.
- 5. The Adapter's firmware is updated. This may take a few minutes. When the Adapter's *Status* screen reappears, the firmware will have been updated.



# **Specifications**

#### **Model Number**

ECB5240M (Managed 4-Port ECB with Bonded MoCA)

#### IΡ

LAN MoCA (v. 2.0; up to 1 Gbps throughput) LAN Ethernet Port 10/100/1000 (4)

#### **LAN Connections**

Coax In Frequency Range: Extended D-band: 1125MHz ~ 1675MHz; Full Port Range: 5MHz ~ 2150MHz

#### **LED Indicators**

Power, Coax

#### **Power**

External; 12V DC; 1.5A Made by Actiontec Model no. KSASB0241200150HU

#### Regulatory

FCC, UL 60950-1, CUL, MoCA, IC

#### **Bonded MoCA Network Adapter With 4 Ethernet Ports**

#### **Environmental**

Ambient temperature: 0°C to 40°C (32°F to 104°F)

Storage temperature: -20°C to 85°C (-4°F to 185°F)

Operating humidity: 10% to 85% non-condensing

Storage humidity: 5% to 90% non-condensing

Note: Specifications are subject to change without notice.

# **Notices**

# **Warranty**

This product has a one-year Limited Hardware Warranty and 90-day free software updates from date of purchase.

#### **Local Law**

This Limited Warranty Statement gives the customer specific legal rights. The customer may also have other rights which vary from state to state in the United States, from province to province in Canada, and from country to country elsewhere in the world.

To the extent that this Limited Warranty Statement is inconsistent with local law, this Statement shall be deemed modified to be consistent with such local law. Under such local law, certain disclaimers and limitations of this Warranty Statement may not apply to the customer.

Go to http://www.actiontec.com/products/warranty.php for more information.

# **Important Safety Instructions**

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; 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.
- Do not use the telephone to report a gas leak in the vicinity of the leak.
- Use only the power cord indicated in this manual if applicable.

#### **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.

# **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 device;
- 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 (applicable only to powerline products);
- Consult the dealer or an experience radio or television technician for help.

# Declaration of Conformity for Products Marked with the FCC logo-USA Only

This device complies with Part 15 of the FCC Rules 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.

#### Managed 4-Port ECB with Bonded MoCA

#### 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 Industry Canada (IC)–Canada only

This device complies 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.

#### **Contact Information**

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

Actiontec Electronics, Inc 760 North Mary Avenue, Sunnyvale, CA 94085, United States Tel: (408) 752-7700 Fax: (408) 541-9003

# **Technical Support**

Go to www.actiontec.com/support for product support, updates, and additional information, including:

- Firmware updates
- Troubleshooting
- Registration
- FAQs

# **Technical Support Phone Number**

United States: 1 (888) 436-0657