Coaxial-to-Ethernet
Conversion Kit

KiweeBroadband

KB-M3-04
MoCA 2.5 Adapter

Model#KB-M3-04

User Guide

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1. Introduction

Thank you for purchasing the KB-M3-04 MoCA 2.5 Adapter. This device allows you to extend your home network using existing coaxial cabling. It provides high-speed Ethernet connectivity anywhere a coaxial outlet is available, ensuring a stable and reliable connection for streaming, gaming, and high-bandwidth applications. The built-in Ethernet ports also support PoE++ (IEEE802.3bt), allowing compatible devices to receive both power and data through a single Ethernet cable.

This guide provides step-by-step instructions for setup and troubleshooting.





2. Package Contents

- KB-M3-04 MoCA 2.5 Adapter
- Coaxial cable
- Power adapter
- Quick Start Guide
- Ethernet cable

3. Requirements

- An available coaxial port
- An electrical outlet near the installation location

4. Features

Dual 2.5G Ethernet Ports: Two high-performance ports for flexible, high-speed device connectivity.
PoE++ Technology: Supports IEEE 802.3bt Class 8 (up to 90W) power and data delivery on both LAN ports, simplifying deployment for high-power devices like PTZ cameras and Wi-Fi 7 access points.
MoCA 2.5 Technology: Delivers high-speed coaxial networking with up to 2.5 Gbps throughput.
TV Pass-through Port: Maintains seamless connectivity for legacy TV and set-top boxes.
LED Indicators:

Location	LED	Status	Meaning
Top Panel	Power	Solid Green	Powered on
	MoCA	Solid / Blinking	Connected / Data activity
RJ45 Ports	Ethernet (Left)	Solid / Blinking	Link established / Data activity
	PoE (Right)	Solid Green	PoE device detected/active

5. Setup Instruction

Connecting the First Adapter

1. **Disconnect** the coaxial cable from your TV or set-top box.
2. **Connect** that coaxial cable to the "TV" port on the MoCA adapter.



3. **Attach** a new coaxial cable from the wall outlet to the "MoCA" port on the adapter.



4. **Connect** one end of an Ethernet cable to your modem/router.

5. **Plug** the other end into one of the Ethernet ports on the adapter.



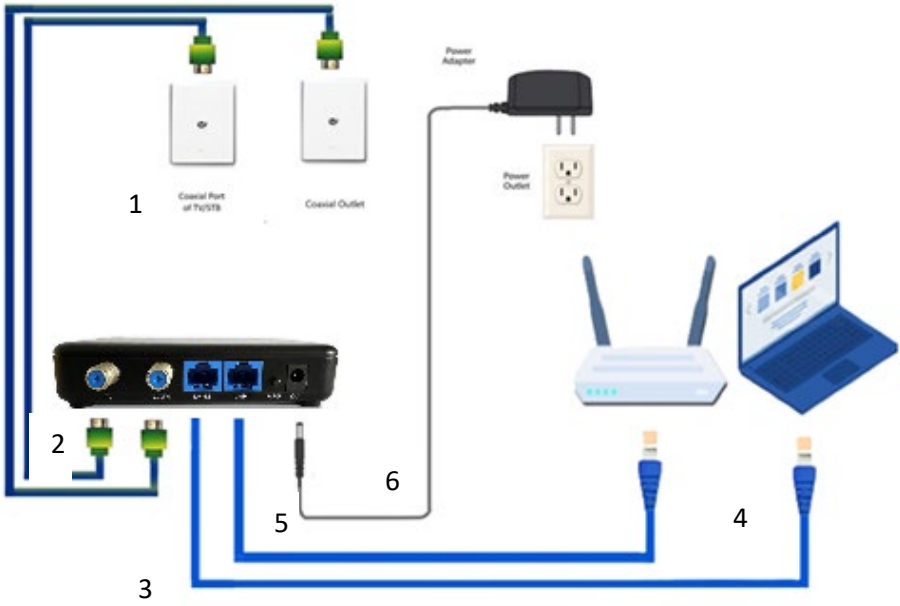
6. When a PoE-powered device is connected, the PoE LED indicator lights solid green to confirm successful power negotiation and supply.



7. **Power** on the adapter using the provided power adapter.



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



Your home network is now extended over the coaxial infrastructure.

Connecting Additional Adapters

1. **Find** a coaxial outlet near the desired location.
2. **Disconnect** any existing coaxial cable from a TV/STB (if applicable).
3. **Connect** that cable to the "TV" port on the adapter.

4. **Attach** a new coaxial cable from the wall outlet to the " MoCA" port on the adapter.
5. **Use** an Ethernet cable to connect the adapter to your device (e.g., PC, gaming console, or access point).



6. If you connect a Power over Ethernet (PoE) device, the PoE LED indicator will turn green, signaling that the connection is successful and power is being supplied to the device.
7. **Plug in** the power adapter and turn on the unit.
8. **Make** sure the Power, Ethernet and MoCA lights are solid green.



Repeat these steps to add more adapters as needed.

6. MoCA protected Setup (MPS)

MPS lets you share the same encryption password across MoCA adapters.

- **Set up the first adapter**
  - Go to **Security Settings** > **Network Security Setup**
  - Enable **D-Ext** and set a password
  - Save and reboot
- **Sync the other adapters**
  - Press **MPS** on the first adapter
  - Within 2 minutes, press **MPS** on each additional adapter
  - The adapters will pair automatically and copy the settings

Setup complete. Encryption is now enabled.

7. Web Management

Each adapter has a built-in web interface for advanced configuration.

- **Default IP Address**: 192.168.144.200
- **Login**: admin
- **Password**: maxlinear

To access:

1. Set your computer's IP to 192.168.144.x (where x is 1-254, except 200).
2. Connect your PC to the adapter via Ethernet.
3. Open a browser and enter http://192.168.144.200.
4. Adjust settings such as frequency range, transmission rate, and IP configuration.

8. Specifications

Model Number: KB-M3-04
Ethernet Ports: 2 x 2.5GbE LAN
MoCA 2.5 Port (Extended D-band: 1125MHz~1675MHz)
TV Port (**Frequency Range** - 5MHz~1002MHz)
PoE Standard IEEE 802.3af/802.3at/802.3bt (PoE++ Type 4, Class 8)
PoE Budget 120W
LED Indicators:

- Top Panel: Power, MoCA
- RJ45 Ports: Ethernet (Left), PoE (Right)

Power: 52VDC, 2.4A
Certifications : FCC, ETL, CE

Environmental Specifications

Ambient temperature - 0ºC to 40ºC (32ºF to 104ºF)
Storage temperature -- 20ºC to 85ºC (-4ºF to 185ºF)
Operating humidity - 10% to 85% non-condensing
Storage humidity - 5% to 90% non-condensing
Note: Specifications are subject to change without notice

9. Safety and Compliance

- Keep the device dry; do not expose it to water or high humidity.
- Do not block ventilation openings.
- Use only the provided power adapter.
- For coaxial cable installations, ensure proper grounding per ANSI/NFPA70 regulations.

Regulatory Compliance

FCC (USA)

This device complies with Part 15 of the FCC Rules. Operation is subject to the following conditions: (1) it may not cause harmful interference, and (2) it must accept any interference received.

CE (EU)

This product complies with EMC Directive 2014/30/EU and RoHS Directive 2011/65/EU, meeting:

- EN 55032: EMC – Emission requirements
- EN 55035: EMC – Immunity requirements

10. Warranty and Support

Warranty

- **Hardware**: 1-year limited warranty.
- **Software updates**: 120 days from the date of purchase.

Technical Support

For troubleshooting and assistance, contact: **info@kiwee-broadband.com**.

Common Issues & Solutions

MoCA LED is off:

- Ensure the adapter is correctly connected to the coaxial outlet.
- Try a different coaxial outlet.
- Verify that your home's coaxial network is connected properly.

Cable modem or set-top box stops working:

- Use a coaxial splitter instead of connecting directly.
- Install a MoCA POE (Point of Entry) filter.

Incompatible with DirecTV/DISH:

- These adapters work with cable or terrestrial TV; contact your provider for satellite-compatible solutions.

Factory Reset

To reset the device into factory default settings, press the reset button available under KB-M3-04 for 10 seconds.



For additional support, visit our website or email us at **info@kiwee-broadband.com**.

Thank you for choosing Kiwee Broadband. We hope you enjoy a seamless networking experience!