KiweeBroadband

MoCA 2.5 Adapter

with 4 × 2.5GbE Ethernet Ports

Model KB-M3-05E



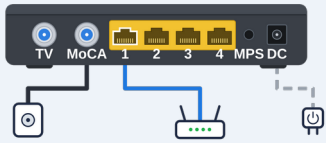
Up to 2.5 Gbps over SAT coax	**4 × 2.5GbE built-in switch**	**Satellite TV keeps working**

User Guide

Coax-to-Ethernet for satellite homes · E-band (400–900 MHz) · English

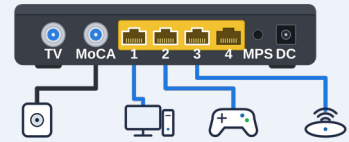
Quick Start

1 Adapter A at the router



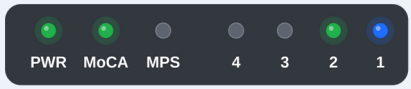
Wall outlet (DATA or F socket) → **MoCA**, router → any port **1–4**, then power.

2 Adapter B in another room



Wall outlet (DATA or F socket) → **MoCA**, your devices → ports **1–4**, then power.

3 Wait about a minute



● PWR and ● MoCA on: you're online. Port LEDs: ● 2.5GbE device, ● 1GbE or slower.

4 Secure it (recommended)



Turn on encryption on A, then press **MPS** on A and on B within 2 min (section 7).

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1 Welcome

Thank you for choosing the Kiwee Broadband **KB-M3-05E** MoCA 2.5 Adapter with four 2.5GbE Ethernet ports.

The KB-M3-05E turns the satellite coax cable that is already in your walls into a fast, stable wired network — and your satellite TV keeps working. It uses the MoCA E-band (400–900 MHz), below the satellite signals. Plug one adapter into your router, another in any room with a coax outlet, and up to four devices in that room get a wired connection — no new cables, no drilling, no Wi-Fi dead zones.



Highlights

4 × 2.5GbE ports
Built-in switch for a PC, console, NAS and Wi-Fi access point.

Up to 2.5 Gbps over coax
MoCA 2.5 with low latency for gaming and 4K streaming.

Satellite TV friendly
Network at 400–900 MHz; the TV port passes your SAT signal (950–2300 MHz).

Easy encryption
128-bit AES, copied to every adapter with the MPS button.

Speed-coded port LEDs
Blue for a 2.5GbE device, green for 1GbE or slower.

Up to 16 MoCA devices
Works with E-band MoCA devices, e.g. the Kiwee KB-M3-02E.

New on the KB-M3-05E: the MPS LED

A dedicated **MPS** (MoCA Protected Setup) LED shows at a glance whether each adapter is secured: ● **solid green** when a MoCA security password is active, **off** when the adapter is not encrypted (factory default). No need to open the web page to check your pairing — just look at the LEDs (section 7).

2 Before You Start

In the box



2 × KB-M3-05E adapter



2 × power adapter
12 V DC, 2 A



2 × coax cable



4 × IEC to F adapter
2 × IEC male, 2 × IEC female



2 × Ethernet cable



1 × user guide

Missing or damaged item? Contact info@kiwee-broadband.com before installing. Please read the safety information (section 13) first.

You will also need

- A coax wall outlet in each room where you install an adapter, all on the same coax cable (with a multiswitch, see section 5).
- A power outlet near each adapter.
- Devices with an Ethernet port. For best results, use 2.5GbE devices and Cat5e cable or better.
- Splitters that pass **400–900 MHz** between your outlets, such as SAT splitters rated **5–2400 MHz**. SAT-only splitters rated 950–2400 MHz may block the adapters.

2-minute compatibility check

Works with

- Satellite TV (DVB-S/S2): single cable, Unicable and loop-through outlets
- Satellite multiswitch: one pair per room cable (section 5)
- Fibre or DSL homes with satellite coax
- E-band MoCA adapters (e.g. Kiwee KB-M3-02E)
- Any device with an Ethernet port

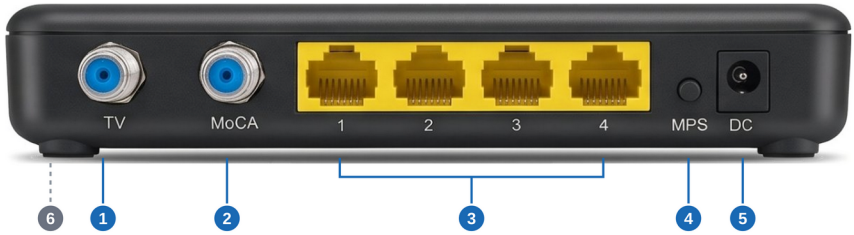
Not compatible with

- Cable TV or cable internet (DOCSIS) on the same coax
- Antenna TV (DVB-T2) on the same coax
- D-band MoCA adapters (e.g. Kiwee KB-M3-02, KB-M3-05)
- G.hn coax adapters (different technology)

Cable TV or internet? Choose our **KB-M3-05**. Wideband LNB? Contact us first.

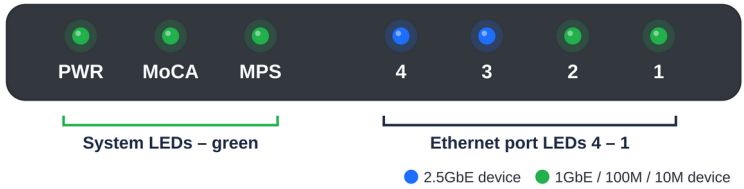
3 Get to Know Your Adapter

Rear panel



	Port / button	What it does
1	**TV**	To your SAT receiver: passes 950–2300 MHz, LNB power and DiSEqC.
2	**MoCA**	To the coax wall outlet (DATA or F socket). Carries the network (400–900 MHz).
3	**Ethernet 1–4**	2.5GbE ports for your router or devices (also 1G, 100M, 10M).
4	**MPS**	Copies encryption settings to other adapters (section 7).
5	**DC**	12 V DC, 2 A input. Use only the supplied power adapter.
6	**Reset (underside)**	Hold for 10 seconds to restore factory settings.

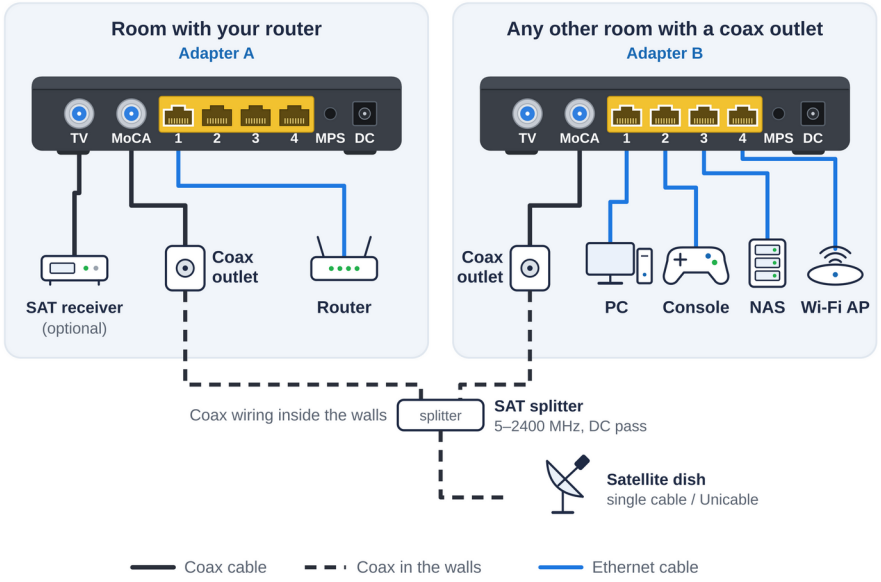
LED indicators (top panel)



LED	Status and meaning
PWR	● **Solid green** – powered on ● **Off** – no power
MoCA	● **Solid green** – connected to at least one other MoCA adapter ● **Blinking green** – data on the coax ● **Off** – no other adapter found
MPS	● **Solid green** – a MoCA security password is active: encrypted (128-bit AES) ● **Off** – encryption off (factory default). All adapters must match.
1–4	● **Solid blue** – 2.5GbE device ● **Solid green** – 1GbE or slower device ● **Blinking** – data being transferred ● **Off** – nothing connected, or device off

4 Plan Your Network

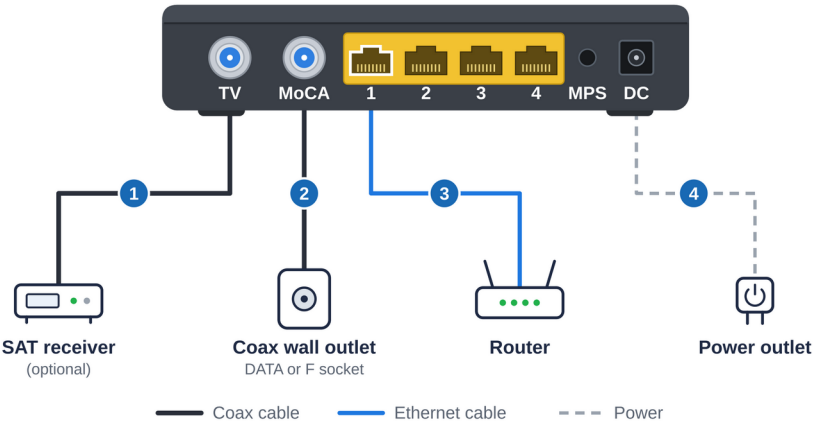
You need at least two adapters: one next to your router (Adapter A) and one in each room where you want a wired connection (Adapter B, C…). All adapters must be on the same coax cable — as with a single cable, Unicable or loop-through outlets. With a multiswitch, see section 5.



Good to know

- **Any port, any device.** All four Ethernet ports are identical.
- **Local traffic stays local.** Devices on one adapter talk at full speed without using the coax.
- **The coax link is shared.** Up to 2.5 Gbps for all adapters (up to 16 MoCA devices); actual speed depends on cables, splitters and distance (typically up to 250–300 m of coax).
- **Check your splitters.** They must pass 400–900 MHz (e.g. SAT splitters rated 5–2400 MHz); avoid amplifiers between adapters.
- **Shared building?** There is no POE filter for this band: turn on encryption (section 7) if neighbours share the coax.
- **One path only.** Connect each adapter to your network through a single cable path — a second cable to the same router or switch creates a loop that can stall your network.

5 Install the First Adapter (at the Router)



1. **SAT receiver (optional).** Outlet with a single F socket, or a bare cable: plug the receiver's coax cable into the adapter's **TV** port. Outlet with a DATA socket: leave the receiver on the outlet's **SAT** socket.
2. **Coax.** Connect the supplied coax cable from the wall to the **MoCA** port: on an outlet with several sockets, use the **DATA** (or **SAT/DATA**) socket. Hand-tighten both ends. IEC socket? First push the matching IEC adapter onto it.
3. **Router.** Connect the supplied Ethernet cable from a LAN port on your router to any Ethernet port (**1–4**) on the adapter.
4. **Power.** Plug in the power adapter. The **PWR** LED lights green; the port LED lights **blue** if your router has a 2.5GbE port, or **green** if it is 1GbE or slower.

Good to know

Receiver on the DATA-socket outlet? Keep it on the outlet's SAT socket: the outlet sends only the network to its DATA socket, so the adapter's TV port would get no satellite signal.

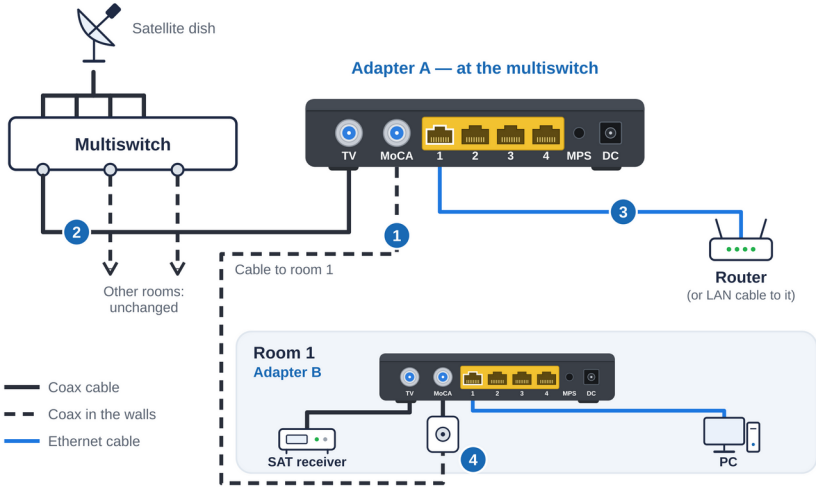
The **MoCA** LED stays off until a second adapter is connected and powered on.

The three free ports work like a switch: connect a NAS, a game console or a streaming box near your router.

Satellite wiring: single cable or multiswitch

Single cable, Unicable or loop-through outlets: all your outlets share one cable. Install the adapters as described in sections 5 and 6 — nothing else to do.

Multiswitch (one cable per room): a multiswitch does not pass the network from one output to another. Use one pair of adapters per room cable: adapter A at the multiswitch, adapter B in the room.



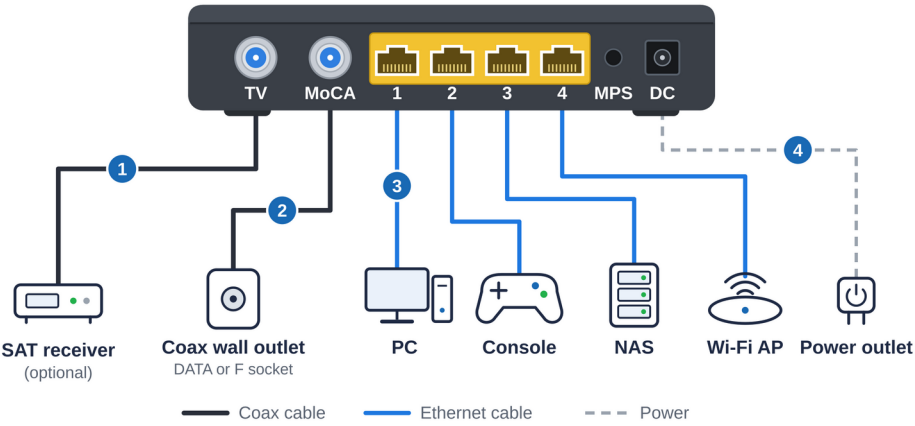
1. **Room cable.** At the multiswitch, unscrew the cable that goes to the room and connect it to the **MoCA** port of adapter A.
2. **Multiswitch.** Connect the free multiswitch output to the **TV** port of adapter A with the supplied coax cable.
3. **Router.** Connect any port (**1–4**) of adapter A to your router, directly or with a LAN cable, then plug in the power adapter.
4. **Room.** Install adapter B in the room (section 6).

Good to know

Several rooms? Use one pair per room cable. At the multiswitch, link the A adapters with short Ethernet cables — each one has a 4-port switch.

Antenna TV on the same cables? If your multiswitch also sends antenna TV (DVB-T2) to the outlets, the KB-M3-05E cannot be used on those cables: choose our G.hn adapter **KB-G3-05**. Wideband LNB? Contact us first.

6 Install Additional Adapters



1. **SAT receiver (optional).** Single F socket or bare cable: connect the receiver to the **TV** port. Outlet with a DATA socket: leave the receiver on its **SAT** socket.
2. **Coax.** Connect the wall outlet (**DATA** or F socket) to the **MoCA** port.
3. **Devices.** Connect up to four devices — PC, console, NAS, Wi-Fi access point — to ports **1–4**.
4. **Power.** Plug in the power adapter.
5. **Check the LEDs.** After about a minute: ● **PWR** green, ● **MoCA** green, and one port LED per connected device: ● **blue** = 2.5GbE device, ● **green** = 1GbE or slower device.

That's it — your devices are now online. Repeat these steps for each additional room.

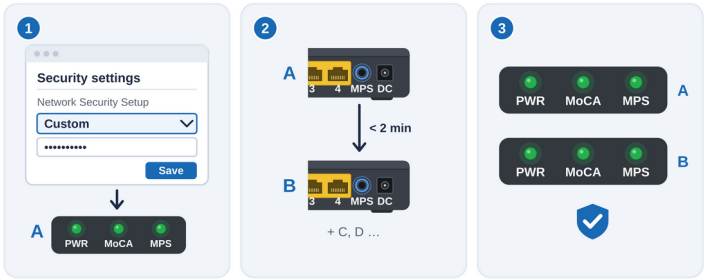
What you should see



A (at the router) and **B** (in another room) when everything works: ● **PWR** and ● **MoCA** on, and one lit port LED per connected device (● 2.5GbE, ● 1GbE or slower). The **MPS** LED turns ● green once you secure your network (section 7).

7 Secure Your Network (Encryption and MPS)

MoCA encryption is **off by default**. Turn it on once on the first adapter (A), then copy its settings to your other adapters with the **MPS** button: your traffic is then protected with 128-bit AES. **Recommended** in apartment buildings, or wherever the coax wiring may be shared.



Step 1 · Turn on encryption on adapter A

1. Open the web page of adapter A, the first adapter (section 8).
2. Go to the **Security settings** menu.
3. Under **Network Security Setup**, select **Custom** and set your password.
4. Click **Save**, then reboot the adapter. Its ● **MPS** LED is now green: encryption is on.

Step 2 · Copy the settings to your other adapters

1. Press the **MPS** button on adapter A.
2. Within **2 minutes**, press the **MPS** button on each of your other adapters (B, C…).
3. The adapters pair automatically and copy adapter A's settings. An adapter is secured when its ● **MPS** and ● **MoCA** LEDs are green.
4. **Add an adapter later:** install it (section 6), then repeat this step with it. **Turn encryption off:** reset every adapter (section 10).

> **Check your network at a glance**
>
> All adapters must show the same **MPS** state: all ● green = secured; all ● off = not encrypted (factory default).
>
> An adapter whose MPS LED stays off cannot connect (its **MoCA** LED is off): press **MPS** on adapter A, then on that adapter within 2 minutes.

8 Web Management

Each adapter has a built-in web page. You only need it to turn on encryption (section 7) or to load the standard E-band firmware (section 9).

IP address	192.168.144.200 (the same on every adapter)
Username	admin
Password	maxlinear

Open the web page

1. Give your computer's wired network a fixed IP address: **192.168.144.100**, subnet mask **255.255.255.0**.
2. Connect the computer directly to one of the adapter's Ethernet ports.
3. Open a web browser and go to **http://192.168.144.200**.
4. Log in with **admin** / **maxlinear** to check the link status or change settings such as encryption and IP configuration.
5. When you are done, set your computer back to obtain an IP address automatically.

Where to set a fixed IP address

Windows 11: Settings › Network & internet › Ethernet › IP assignment › Edit › Manual

macOS: System Settings › Network › Ethernet › Details › TCP/IP › Configure IPv4: Manually

Notice

All adapters share this address. To reach one specific adapter, unplug the power of the others — or give each adapter its own address in its IP settings (e.g. 192.168.144.201, .202…).

All adapters must use the same firmware (all extended or all standard E-band) and the same MoCA settings to see each other. If in doubt, restore factory settings (section 10).

9 Advanced Uses

Wired backhaul for mesh Wi-Fi

Connect a mesh node or Wi-Fi access point to any port of an adapter. Its port LED shows the link speed (● blue = 2.5GbE). If your mesh system asks, enable “Ethernet backhaul” in its app: each node then gets a stable wired link instead of a wireless hop.

Fibre in another room (ONT-to-router link)

If your fibre box (ONT) is far from where you want your router, a pair of adapters can carry the internet connection:

1. Connect the ONT to any port of Adapter A.
2. Connect your router’s WAN (Internet) port to any port of Adapter B.

> ⚠ **Use a dedicated pair**
>
> Here the adapters sit before your router: any other device or MoCA adapter on the same coax would be on the internet side of your router.

Measure the coax link speed

Internet speed tests measure your internet plan, not the coax link. To measure the link itself, connect a computer to each adapter and use the free tool iperf3 with parallel streams — the method we use in our lab:

Computer 1 (server): **`iperf3 -s`**

Computer 2 (client): **`iperf3 -c <IP of computer 1> -w 1m -P 20 -i 10 -t 5`**

Add **-R** to the client command to measure the other direction. A single stream, such as a file copy, usually shows less than the link can carry.

Standard E-band firmware

Your adapters ship with the extended E-band firmware (400–900 MHz) for the highest speed. If your satellite picture shows blocks, the standard E-band firmware (400–700 MHz) keeps more distance from the satellite band, at a slightly lower speed. Download it from the KB-M3-05E page on **kiwee-broadband.com** and follow the steps given there. Load it on **every** adapter: all adapters must use the same firmware.

10 Troubleshooting

Problem	Try this
PWR LED is off	• Check that the power adapter is firmly plugged into the adapter and the wall outlet. • Try another power outlet. Use only the supplied power adapter.
MoCA LED is off	• Make sure at least two adapters are powered on. • Check that the wall cable goes to the **MoCA** port, not the TV port. • **Direct test:** connect two adapters with a short coax cable (MoCA port to MoCA port). If both MoCA LEDs turn green, the adapters work — the problem is in your coax wiring. • Use splitters that pass 400–900 MHz (e.g. rated 5–2400 MHz) and remove amplifiers between adapters. • Outlet with several sockets? Use the **DATA** (or SAT/DATA) socket. Multiswitch? Use one pair per room cable (section 5). • Compare the MPS LEDs: all adapters must show the same state (section 7). • Loaded the standard E-band firmware? Every adapter must use the same firmware (section 9).
MPS LED stays off after pairing	• Check that encryption is on in adapter A: its MPS LED must be green (section 7). • Press MPS on adapter A, then on this adapter within 2 minutes. • Still off? Restore this adapter's factory settings and pair it again.
MPS LEDs green, but one MoCA LED is off	• That adapter may hold different encryption settings. Restore its factory settings, then pair it again with MPS (section 7).
Speed is lower than expected	• The coax link carries up to 2.5 Gbps, shared by all adapters. Real-world throughput depends on your wiring. • With a 1GbE device (green port LED), the maximum is about 1 Gbps. • Internet speed tests show your internet plan, not the coax link — see section 9. • Remove unnecessary splitters, cover unused splitter outputs with 75 Ω terminators and tighten all connectors.
Port LED is off	• Check that the device is on and the cable clicks into place. • Try another port or another Ethernet cable.

Problem	Try this
Port LED is green, not blue	• Green means the device is connected at 1GbE or slower. This is normal for devices without a 2.5GbE port. • If the device does have a 2.5GbE port: use a Cat5e or better cable and set its network speed to “Auto”.
Port LED is lit but no internet	• Check that the MoCA LED is green on both adapters. • Make sure Adapter A is connected to a LAN port on your router. • Restart the device (or unplug and reconnect its cable) to get a new IP address.
Network slow, unstable or dropping	• **Loop check:** each adapter must reach your router through one cable path only — remove any second cable to the same router or switch. • Tighten all coax connectors, replace damaged cables and use splitters that pass 400–900 MHz. • Keep the adapter ventilated and use the supplied power adapter.
No SAT picture	• Outlet with a DATA socket: the receiver must stay on the outlet’s **SAT** socket. Single F socket: receiver on the adapter’s **TV** port. • Tighten all connectors. With a multiswitch, check that the output is on adapter A’s **TV** port (section 5).
SAT picture freezes or shows blocks	• Load the standard E-band firmware (400–700 MHz) on every adapter: it keeps more distance from the satellite band (section 9). • Wideband LNB (output from about 300 MHz)? Contact us.
Cable TV, cable internet or DVB-T2 on the coax	• The KB-M3-05E cannot share the coax with them. Cable TV or internet only: choose the Kiwee **KB-M3-05**. Satellite and antenna TV on the same cable: choose the G.hn adapter **KB-G3-05**.
Cannot open the web page	• Check your computer’s IP settings and go to http://192.168.144.200 (section 8).

Factory reset

Press and hold the **reset button on the underside** of the adapter for **10 seconds**, for example with a straightened paper clip. All settings return to factory defaults — encryption is turned off and the **MPS** LED goes off.

11 Frequently Asked Questions

Do I need an adapter next to my router?

Yes. MoCA needs at least two adapters: one connected to your router, and one in each room where you want a wired connection. With a multiswitch, adapter A sits at the multiswitch and connects to your router (section 5).

Will it affect my satellite TV?

Normally not: the adapters use 400–900 MHz, below the satellite band, and the TV port passes the SAT signal, LNB power and DiSEqC. If the picture shows blocks, see section 10.

Is my network encrypted out of the box?

No, encryption is off by default. Turn it on once on adapter A, then copy it to your other adapters with MPS (section 7). A green MPS LED shows each encrypted adapter.

Can I mix it with other MoCA adapters?

Only with E-band MoCA adapters, such as the Kiwee KB-M3-02E (use the same firmware on all). D-band adapters such as the KB-M3-02 or KB-M3-05 cannot connect to it.

Does it work with a multiswitch?

Yes, with one pair per room cable: a multiswitch does not pass the network between its outputs. Put adapter A at the multiswitch and adapter B in the room (section 5).

How fast will it be?

The coax link carries up to 2.5 Gbps, shared by all adapters; real-world speed depends on your wiring. A device on a green (1GbE) port is limited to about 1 Gbps. To measure the link itself, see section 9.

Can I connect more than four devices?

Yes. Connect a network switch to any of the four ports.

Do I have to configure anything?

Usually not: the adapters find each other automatically. Use the web page only to turn on encryption (section 7) or to load the standard E-band firmware (section 9).

12 Specifications

Model	KB-M3-05E
Technology	MoCA 2.5
Compatibility	E-band MoCA devices (e.g. Kiwee KB-M3-02E)
Coax data rate	Up to 2.5 Gbps; range typically 250–300 m of coax
MoCA port	F-type (75 Ω), extended E-band (400–900 MHz); standard E-band firmware (400–700 MHz) available
TV pass-through port	F-type (75 Ω), 950–2300 MHz; passes LNB power and DiSEqC
Ethernet ports	4 × RJ45 2.5GbE (auto-negotiation 2.5G / 1G / 100M / 10M), built-in switch
Max. devices per network	16 MoCA devices
Security	128-bit AES encryption (off by default), MoCA Protected Setup (MPS)
LED indicators	PWR, MoCA, MPS (green); Ethernet 1–4 (blue = 2.5GbE device, green = 1GbE / 100M / 10M device)
Buttons	MPS (rear), Reset (underside)
Management	Web page, default IP 192.168.144.200
Power input	12 V DC, 2 A (supplied power adapter)
Recommended cables	RG6 coax; Cat5e or better Ethernet
Certifications	CE
Operating temperature	0 °C to 40 °C
Storage temperature	−20 °C to 85 °C
Operating humidity	10 % to 85 % non-condensing
Storage humidity	5 % to 90 % non-condensing

Specifications are subject to change without notice. The data rate is the maximum MoCA 2.5 network rate; actual throughput depends on your wiring and environment.

13 Safety and Regulatory Information

Safety

- For indoor use only. Keep the adapter dry, uncovered (do not block its ventilation openings) and away from heat sources.
- Use only the supplied 12 V DC, 2 A power adapter. Unplug it during lightning storms or when unused for long periods.
- Do not open the housing: there are no user-serviceable parts inside.
- Earth coax installations according to local regulations (e.g. EN 60728-11).

CE (EU)

This product complies with the EMC Directive 2014/30/EU and the RoHS Directive 2011/65/EU, and meets EN 55032 (emission) and EN 55035 (immunity).

Disposal (WEEE)



This symbol of a crossed-out wheeled bin means the product must not be disposed of with household waste. Take it to a collection point for the recycling of electrical and electronic equipment. Proper disposal protects the environment and human health.

14 Words to Know

2.5GbE	Ethernet at up to 2.5 Gbps. 2.5GbE ports also work with 1GbE, 100 Mbps and 10 Mbps devices.
Backhaul	The link between a mesh Wi-Fi node and the main router. A wired backhaul is faster and more stable than a wireless one.
DiSEqC	Control signals your SAT receiver sends to the LNB or multiswitch. They pass through the adapter's TV port.
E-band	The frequency range MoCA uses on this adapter: 400–900 MHz (extended) or 400–700 MHz (standard firmware), below the satellite band.
Coax	The round TV cable with screw-on F-connectors found in most homes.
LNB	The unit on the satellite dish that sends the TV signals (950–2150 MHz) down the coax.
Encryption	Scrambles your data so that neighbours sharing the coax cannot read it. MoCA uses 128-bit AES.
MoCA	Multimedia over Coax Alliance: the standard that carries Ethernet over coax cable.
MPS	MoCA Protected Setup: the button that copies encryption settings from one adapter to another.
Multiswitch	A box that feeds one cable per room from the LNB. It does not pass the network between its outputs.
ONT	Optical Network Terminal: the box that brings fibre internet into your home.
Splitter	A passive device that divides one coax line into two or more. For this adapter, use models that pass 400–900 MHz.
TV port	The adapter's pass-through port for your SAT receiver (950–2300 MHz).
Unicable	A satellite system that serves several receivers over one cable (also called SCR or JESS).

15 My Network

Keep a record of your installation — handy for adding adapters later or when contacting support.

Adapter	Room / location	Connected devices	MPS green
A			☐
B			☐
C			☐
D			☐
E			☐
F			☐

Notes (encryption password, Wi-Fi name, purchase date…)

Before you contact support: a 1-minute check

☐ ● **PWR** and ● **MoCA** are green on every adapter.

☐ All **MPS** LEDs show the same state — all green or all off (section 7).

☐ Every splitter between adapters passes 400–900 MHz; no amplifier in between.

☐ Multiswitch? Each room cable has its own pair, with adapter A at the multiswitch (section 5).

☐ You tried the direct test with a short coax cable (section 10, “MoCA LED is off”).

KiweeBroadband

Warranty and Support

Kiwee Broadband provides a **1-year limited hardware warranty** from the date of purchase.

We're here to help

info@kiwee-broadband.com

kiwee-broadband.com

Bought on Amazon? Contact us from **Your Orders › Contact seller**.

Scan to visit kiwee-broadband.com

To help us solve your issue quickly, please include:

your model (KB-M3-05E) and order number · the colour of each LED on every adapter · how your satellite system is wired (single cable, Unicable or multiswitch) · a photo of how the adapters are connected

Thank you for choosing Kiwee Broadband. *Enjoy your fast wired network!*

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