Coaxial-to-Ethernet
Conversion Kit

KiweeBroadband

KB-G3-03
G.hn Wave 2 Coax Adapter

Model#KB-G3-03

User Guide

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1. Introduction

Thank you for choosing the Kiwee Broadband KB-G3-03 G.hn Wave 2 Coax Adapter. This adapter allows you to extend your home network using your existing coaxial wiring, providing high-speed Ethernet access in any room with a coax outlet. It offers a stable, low-latency connection—perfect for 4K streaming, online gaming, and other high-bandwidth activities. The built-in Ethernet port also supports PoE+ (Power over Ethernet Plus), allowing compatible devices to receive both power and data through a single Ethernet cable.

The KB-G3-03 supports multipoint operation, allowing up to 16 devices to share the same coaxial network.

This manual includes step-by-step setup instructions and troubleshooting guidance to help you get started quickly.





2. Package Contents

- 2 x KB-G3-03 G.hn Wave 2 Coax Adapter
- 2 x Power adapter
- 2 x Coaxial cables
- 2 x Ethernet cables
- 1 x Quick Start Guide

3. Requirements

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

4. Features

2.5G Ethernet Port – Delivers ultra-fast, reliable wired connectivity for high-demand applications such as gaming, streaming, and large file transfers.
PoE+ Technology: Supplies data and power over a single Ethernet cable to compatible devices, simplifying installation.
G.hn Wave 2 Coax Technology – Enables high-speed data transmission over existing coaxial cables with speeds up to 1.6 Gbps. Operates in the 2–200 MHz frequency range for enhanced stability and overall network performance.
TV Pass-Through Port – Maintains uninterrupted service for Satellite TV (950–2150 MHz) and DVB-T2 UHF (470–690 MHz) signals while using the same coaxial connection for data.

LED Indicators:

Location	LED	Status	Meaning
Top Panel	Power	Solid Green	Powered on
	G.hn	Blink Green Blink Orange Blink Red Off	High speed (>300Mbps) Medium speed (<300Mbps) Low speed (<100Mbps) No link
	PAIR	Blink Green	Pairing mode Secured (AES-128)
	PoE	Green	Powering PoE device
RJ45 Port	Ethernet	Solid Blinking	Link established Data activity

5. Setup Instructions

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 G.hn adapter.



3. **Connect** a new coaxial cable from the wall outlet to the "G.hn" port on the adapter.



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

5. **Plug** the other end into the Ethernet port on the adapter.



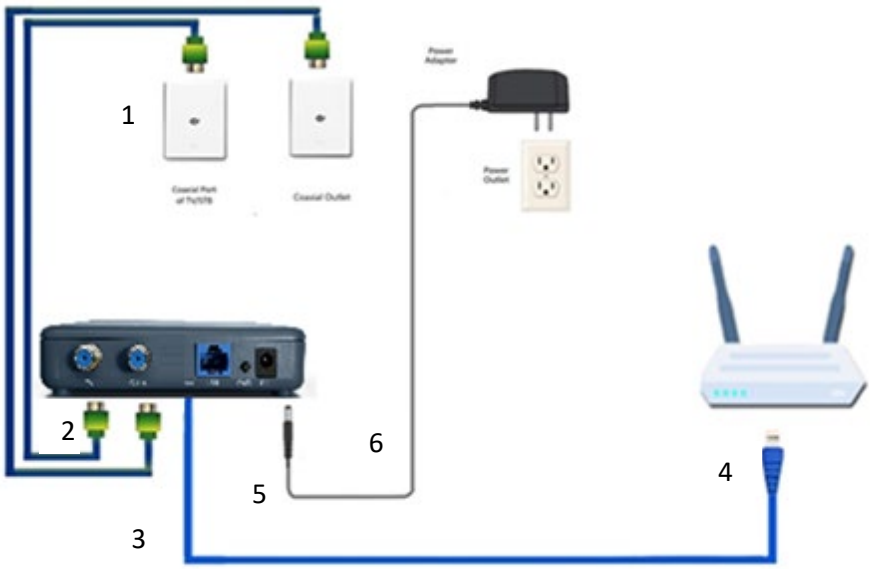
6. If you connect a Power over Ethernet (PoE) device, the PoE LED indicator will turn green, signaling that the connection is successful and power is being supplied to the device.



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



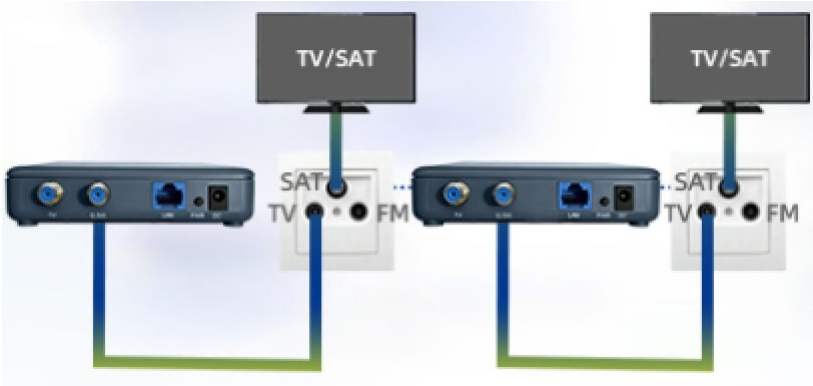
When complete, the setup should look similar to the figure below:



Your home network is now extended over the coaxial infrastructure.

For Satellite TV with a European antenna socket:

1. Keep your satellite set-top box (STB) connected to the SAT port on the wall antenna socket.
2. Use a new coaxial cable to connect the DATA or TV port of the antenna socket to the “G.hn” port on the KB-G3-03 adapter.
3. Ensure all connections are firmly tightened to maintain both network performance and TV signal quality.



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 "G.hn" port on the adapter.
5. **Use** an Ethernet cable to connect the adapter to your device (e.g., PC, gaming console, or access point).

KB-G3-03 G.hn Wave 2 Coax Adapter



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 LED is solid green and the G.hn LED is blinking



Repeat these steps to add more adapters as needed.

6. Pairing

Establish a secure 128-bit AES encrypted G.hn network using these steps:

1. Ensure all **PAIR LEDs** are off (factory default or after reset - this indicates unencrypted mode).
2. Press and hold the **PAIR button** on the first (master) adapter for 3 seconds.
   PAIR LED starts blinking green.
3. Within 2 minutes, press and hold the **PAIR button** on the next (slave) adapter for 3 seconds.
   PAIR LED starts blinking green.
4. After successful pairing, the slave's **PAIR LED** turns solid green.
   The master's **PAIR LED** blinks for 120 seconds to allow adding more slaves.
5. Repeat step 3 to add additional slave adapters.
6. When complete, all **PAIR LEDs** turn solid green – network is secured with 128-bit AES encryption.

To Exit Pairing Mode/Reset Security: Press and hold **PAIR button** for 6 seconds on any adapter. Does not affect IP/other settings.

7. Web Management

Each KB-G3-03 adapter has a built-in web interface for advanced configuration.

Default Access Methods:
- Primary IP: Automatically assigned by your router's DHCP server
  (check your router's device list or use an IP scanner like Advanced IP Scanner).
- Fallback IP: 192.168.144.200 (use if no DHCP IP is assigned).

Login Password: paterna

To Access via Fallback IP (192.168.144.200):
1. Set your computer's IP address to 192.168.144.100
   (subnet mask: 255.255.255.0).
2. Connect your computer directly to the adapter's Ethernet port
   using an Ethernet cable.
3. Open a web browser and navigate to http://192.168.144.200.
4. Enter the password: paterna.

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8. Use Cases

KB-G3-03 extends your network over coaxial cables in these scenarios:

ONT to Router Bridge Mode

• Use the KB-G3-03 to extend fiber optic connections from your ONT (Optical Network Terminal) to your router using existing coaxial wiring.

Static IP Configuration (Required for ONT Placement)

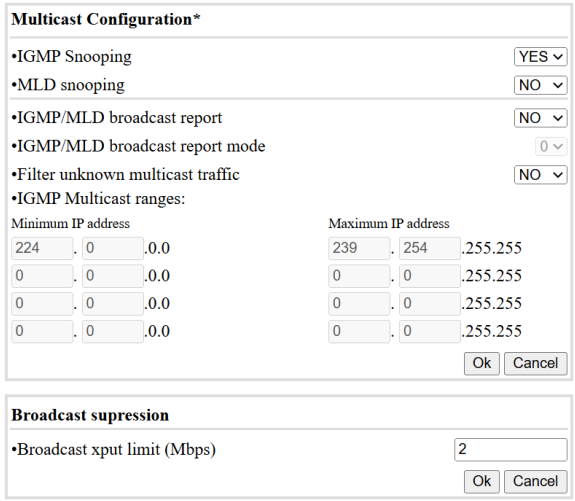
• When placing the KB-G3-03 directly at the internet entry point (before the router), disable DHCP to avoid ISP public IP conflicts.
• Default: DHCP client enabled (automatic IP assignment).

To Configure Static IP:

1. Access the web interface (see section 7).
2. Set "IP/DHCP enabled" to NO.
3. Enter static IP settings:
   • IP Address: 192.168.143.201
   • Subnet Mask: 255.255.255.0
   • Default Gateway: 192.168.143.1
   • DNS: 192.168.143.1
4. Click OK to save.

Multicast IPTV Support

• Enable "IGMP Snooping" in the web interface multicast settings for IPTV streaming.



9. Specifications

Model Number: KB-G3-03
Ethernet Port : 1 x 2.5G LAN
G.hn Port (2MHz~200MHz)
TV Port (**Frequency Range** - 250MHz~2150MHz)
PoE Standard IEEE802.3af (15.4W)/IEEE802.3at (30W)
Pair Button: Enables 128-bit AES pairing
LED Indicators: Power, G.hn, PoE
Power : 48V DC, 1A
Certifications : FCC, CE

Environmental

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

10. 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

11. Warranty and Support

Warranty

- **Hardware**: 1-year limited warranty.

Technical Support

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

Common Issues & Solutions

G.hn 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.

No web access:

- Use IP scanner (e.g., Advanced IP Scanner) to find adapter's DHCP IP; fallback to 192.168.144.200 if needed.

European antenna socket

- Connect to the DATA port (5–862 MHz) for best performance.
- TV, Radio, SAT ports work only if they support the 5–862 MHz range.

Incompatible with DOCSIS Network:

- These adapters work with satellite TV and DVB-T2 UHF; please choose KB-M3-03 for DOCSIS Network compatible solutions.

Factory Reset

To reset the device into factory default settings, press the reset button located on the underside of the KB-G3-03 adapter for more than 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!

12. Multilingual User Manuals

Scan QR for your language:

DE Deutsch ES Español FR Français IT Italiano
PL Polski NL Nederlands SE Svenska EN English

info@kiwee-broadband.com
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