



**ALL-GHN102v2-Coax**  
**GHN Bridge Konverter Coax**



**USER MANUAL**

## **INTRODUCTION**

This G.hn (Gigabit Home Network) over Coax to Gigabit Ethernet bridge connects any Ethernet device to a high speed access device or to a LAN for Internet access. This bridge brings you the newest Ethernet compatible technology that uses the coaxial cable as the network's physical wiring thereby eliminating the need to install new wiring. It is designed to operate on the coaxial TV cable installed in homes.

This bridge allows you to connect PCs and Ethernet enabled devices, such as Switch, HUB and printers, to a Home Networking LAN by simply plugging into the existing coaxial F-Type connector.

## **Features**

- Plug & Play
- Using existing coaxial TV cable to build a home network
- Shares Internet access and streaming video
- 1 port connection compliant with G.hn over Coax standard
- 2 Standard 100/1000BaseT Gigabit Ethernet ports for connecting to Ethernet or FTTH/DSL modem
- MDI/MDIX Auto Crossover Support
- QoS Priority Mapping Support
- Configurable QoS, TagVLAN, Bandwidth Control
- Statistics and Status Information Support

# HARDWARE INSTALLATION

## Parts Names and Functions

### LED Indicators on the Rear Panel





Port	LED	Status		
		ON	Flashing	OFF
DC 12V	<b>PWR</b>	Powered by DC12V	N/A	Not powered
LAN1	<b>Link Act</b>	Link	Receive or Transmit	Disconnect or Link fail
	<b>1000</b>	1000Mbps	N/A	10Mbps or 100Mbps
LAN2	<b>Link Act</b>	Link	Receive or Transmit	Disconnect or Link fail
	<b>1000</b>	1000Mbps	N/A	100Mbps
G.hn	<b>Link Act</b>	Link	Receive or Transmit	Disconnect or Link fail
	<b>Quality</b>	Green: High Orange: Medium Red: Low		


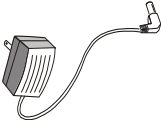
## Ports on the Rear Panel



	Port Name	Type	Functions
A	<b>DC 12V</b>	DC	Connect to the power adapter plug.
B	<b>LAN1/LAN2</b>	RJ-45	Connect to Ethernet port on FTTH or xDSL Modem or Switch for Internet Access.
C	<b>TV</b>	F	Connect to TV
D	<b>G.hn</b>	F	Connect to G.hn devices

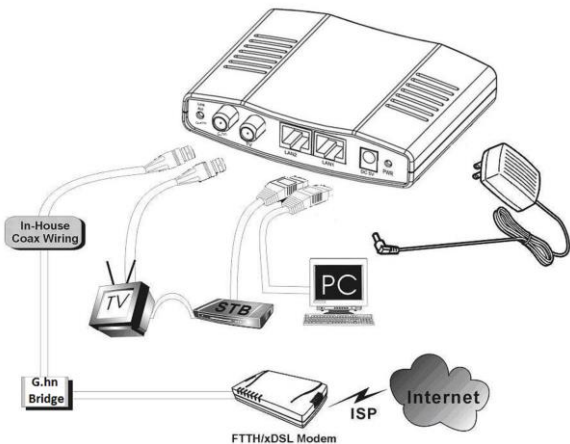
## Essential Hardwares

Items Included	Description	Purpose
	G.hn to Ethernet Bridge	Main Unit
	Coaxial Cable (F-Type/ RG-59U or RG-6)	Connects from G.hn port to coax F-Type connector on the wall outlet.

	<p>CAT5 Ethernet cable</p>	<p>Connects from LAN port to Ethernet enabled devices as PC or STB</p>
	<p>DC12V Power adapter</p>	<p>Connects from Power port of the main unit into a wall outlet</p>

## Hardware Connections

1. Select a convenient location for the bridge near the PC or Ethernet device to which it will be connected. The bridge should be kept away from excessive heat.
2. Using one coaxial cable to connect the **G.hn** port to F-Type connector on the wall. Using another coaxial cable to connect the other F-type **TV** port to TV set (optional). ***Please make sure the coaxial network is well grounded.***
3. Connect the **LAN1/LAN2** port to your Ethernet-equipped device.
4. Connect the power adapter to the **DC 12V** port into a wall outlet.



The figure above shows how to connect an xDSL modem to a home coaxial cable network. Follow the same steps to connect any Ethernet device such as a HUB or printer, to a coaxial cable network.

Now you should have connected the **LAN** port, **G.hn** port and the **DC 12V** port to the appropriate devices or lines. LED will be as:

<b>PWR</b>	ON
<b>LAN Link/Act</b>	ON
<b>G.hn Link/Act</b>	ON (Green or Orange)

For more information on LEDs, see section entitled "[LED Indicators on the Rear Panel](#)"

## **TROUBLESHOOTING**

The bridge has been designed to be a reliable and easy to use connection device. Please refer to the list below to aid in troubleshooting.

### **The Power (green PWR) LED is off.**

- *Make sure the power adapter is properly plugged into a live electrical outlet.*

### **The LAN (Ethernet) LED is off.**

- *Make sure the connection to LAN port is secure.*
- *The Ethernet device to which you are connected should be powered on and properly configured.*

### **The G.hn Link/Act/Quality LED is off or red**

- *Make sure the connection to G.hn port is secure.*
- *G.hn device to which you are connected should be powered on and properly configured.*
- *Make sure the quality of coaxial connector and cable is good.*

# **SPECIFICATIONS**

## **Standards**

- IEEE 802.3 10BaseT Ethernet
- IEEE 802.3u 100BaseT Fast Ethernet
- IEEE 802.3ab 1000BaseT Gigabit Ethernet
- ITU-T G.9960/G.9961 G.hn over Coax

## **Data Rates**

- G.hn: 2Gbps (2-200 MHz)
- Ethernet: 100 /1000 Mbps

## **Transmission Range**

- G.hn : Up to 80dB attenuation
- Ethernet: 100 meters maximum

## **Power Consumption**

- 12V DC, 4 Watt

## **Certifications**

- CE, FCC Part 15, VCCI

## **LEDs**

- Power
- Ethernet Link/Activity/Speed
- G.hn Link/Activity/Quality

## **Connectors**

- Two F-Type connectors, one for connecting with G.hn device, and one for TV Bypass
- Two RJ-45 for 100/1000Mbps Ethernet

## **Cables**

- G.hn: F-Type RG-59U or RG6 coaxial cable
- Ethernet: CAT5E or better UTP



## **Safety Warnings**

For your safety, be sure to read and follow all warning notices and instructions.

- Do not open the device. Opening or removing the device cover can expose you to dangerous high voltage points or other risks. Only qualified service personnel can service the device. Please contact your vendor for further information.
- Do not use your device during a thunderstorm. There may be a risk of electric shock brought about by lightning.
- Do not expose your device to dust or corrosive liquids.
- Do not use this product near water sources.
- Make sure to connect the cables to the correct ports.
- Do not obstruct the ventilation slots on the device.

ALLNET GmbH Computersysteme declares that the device **ALL-GHN102v2-Coax** is in compliance with the essential requirements and other relevant provisions of Directive 2014/30/EU. The Declaration of conformity can be found under this link: <http://ce.allnet.de>

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