

WLAN adapter  
HomePlug AV  
2711 00

**GIRA**

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## Device description

The Gira WLAN adapter HomePlug AV is a 230 V adapter which unites LAN, WLAN (wireless) and Powerline (230 V) technologies in one device.

### Properties

- Data transmission rate of up to 500 Mbit/s for demanding requirements, such as HDTV streaming (high definition television), Internet telephony and high-speed Internet.
- WLAN connection for computers, smart phones, tablets, IP telephony and other WLAN-compatible devices (e.g. printers).
- Network connection for connecting and integrating other network-capable technical devices (e.g. fax).
- Setup of a new Powerline network or integration into an existing network simply by pressing a button.
- Encrypted (WAP2) data transmission protects privacy in the WLAN network at the press of a button.
- Easy synchronisation of all the devices integrated in the network using the HomePlug AV button.
- Can be combined with the Gira flush-mounted HomePlug AV (Art. No. 2750 00), Mini HomePlug AV socket outlet adapter (Art. No. 2710 00) and DRA HomePlug AV feeder (Art. No. 2720 00)
- Compatible with HomePlug AV-capable devices from other manufacturers.



Read these operating instructions before starting up the device. Instruct all end users regarding the function of the device.  
Retain the operating instructions.

## General safety notes



### WARNING

#### Risk of fire due to the WLAN adapter overheating.

In normal operation, increased heat develops due to the processors, requiring warm air to be exhausted from the device.

Observe the following when using the WLAN adapter:

- Never cover (e.g. curtain) or block (e.g. cabinet) the device.
- Never use it in the direct proximity of flammable materials.

When positioning the WLAN adapter, ensure there is sufficient free space around the device for the heat to be diverted ideally.



### Important

If foreign bodies or foreign materials (e.g. liquids) enter the device, faults or damage (e.g. short circuit) to the device can result.

- Never pour liquids over the device.
- Never insert foreign bodies into the device.
- Never cover the ventilation slits.
- Never damage the device housing.

Damaged devices represent a safety risk and should be replaced as quickly as possible.

## Scope of supply



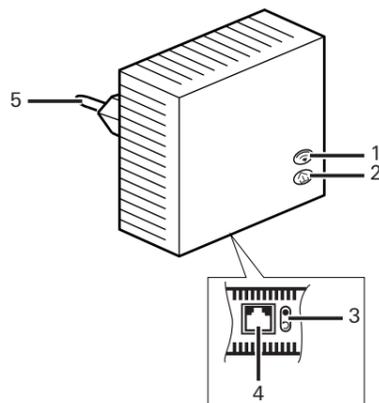
### Package contents

Ensure the package contents are complete and undamaged.

The following components are included in the package:

- 1x WLAN adapter HomePlug AV
- 1x operating instructions

## Connections



- WLAN button and LED
- Encryption button and LED
- Reset button
- Ethernet connection (RJ45)
- SCHUKO plug

## Mounting



### Important

An unsuitable mounting site can lead to malfunctions.

Observe the following during mounting:

- Operate at a dry location only.
- Ensure sufficient ventilation.
- If possible, operate it using a separate wall socket outlet.

Connect the WLAN adapter HomePlug AV as follows:

- Plug the WLAN adapter into a socket outlet. After approximately 45 s (initialisation phase) the LED lights up continuously and the LED flashes: the WLAN adapter is ready for operation.

## Powerline network

Pressing the HomePlug AV button enables the following two options:

- Integration of the WLAN adapter into an existing Powerline network or
- Setup of a new Powerline network

### Integration into an existing Powerline network

- HomePlug AV device:** Press the button for 1 second. Encryption mode starts and is active for 2 minutes.

- WLAN adapter:** Press the button for 1 second. The connection is established automatically.

The WLAN adapter is now integrated in the existing Powerline network and automatically adopts all WLAN settings. All WLAN devices must be permanently connected to one another.

### Setting up a new Powerline network

Connect the WLAN adapter to at least one other HomePlug AV device to set up the Powerline network via the 230 V cable. Two WLAN adapters are used in the following example.

- HomePlug Assistant:** Download and install. A unique folder is not created in the directory.
- WLAN adapter 1:** Unpack and insert it into the socket outlet and wait for the initialisation phase to complete (45 s).
- PC/laptop:** Connect to the network socket outlet of WLAN adapter 1 using a network cable.
- HomePlug Assistant:** Start it. The WLAN adapter 1 is automatically recognised and displayed. Your options now include changing the SSID and WLAN password.
- Unplug the network cable from the PC/laptop when configuration is complete and connect WLAN adapter 1 to the WLAN router.



One of the two WLAN adapters must be connected to the WLAN router because the IP address is assigned via the WLAN router.

- WLAN adapter 2:** Unpack and insert it into the socket outlet and wait for the initialisation phase to complete (45 s).
- WLAN adapter 1:** Press the button for 1 s. Encryption mode starts and is active for 2 min.
- WLAN adapter 2:** Press the button for 1 s. The connection is established automatically.

The WLAN adapter 2 is now integrated in the new Powerline network and automatically adopts all WLAN settings.

Repeat Steps 1 and 8 until all the devices are integrated in the network.



### HomePlug Assistant

The WLAN adapter can only be configured using the HomePlug Assistant. It is available in the download area at [www.gira.de/service/download](http://www.gira.de/service/download). It has to be downloaded and installed first.

### Security ID-number

The security ID-number and MAC address of the device are on the device sticker. The device is addressed in the network using these unique identifiers. This data is required to configure the network.



Note the security ID and MAC address and keep them in a safe place.

The security ID consists of 4 x 4 letters separated by hyphens (e.g. ANJR-KMOR-KSHT-QRUV).

### Security in the network

In the state of delivery, the device's WLAN data transmission is encrypted (WAP2), ensuring it is secure from the first transmission. The powerful 128-bit AES encryption provides maximum data security.

The Powerline network is **not** encrypted in the state of delivery.

The default password is "HomePlug AV".

In order to protect the Powerline network ideally, the default password must be changed via the HomePlug Assistant.

## Behaviour in case of mains voltage failure and voltage restoration

When voltage is restored, the WLAN adapter starts automatically and runs through device synchronisation. All network connections are re-established.

The security passwords and network name remain valid.

## Status of the LEDs

The LEDs integrated in the device push buttons can display the following states:

LED	Status	Meaning
	steady green	WLAN activated
	flashes green	WPS pairing activated
	off	WLAN deactivated
	flashes green	no connection to Powerline network
	steady green	connection suitable for HD video streaming
	steady orange	connection suitable for SD video streaming and online gaming
	steady red	connection suitable for simple data transmission and Internet access

## Reset button

The Reset button has the following two functions:

- Restart device and
  - Reset device
- Press for 1 s = restart device.
  - Press for 10 s = reset device.



### Restart and reset device

Restarting the device is advisable if the WLAN adapter does not respond. Configuration settings are not lost when doing so.

The device should be reset if the WLAN adapter permanently ceases to react. After the reset, all settings are returned to the state of delivery and the WLAN adapter has to be reconfigured. Press the Reset button using a suitable tool, e.g. a ballpoint pen.

## Care

Wipe the WLAN adapter with a moist cloth. Alternatively you can also carefully vacuum the WLAN adapter using a suitable device to minimise dust accumulation within the housing.

## Disposal



The WLAN adapter is an electric and electronic device in the sense of the EU guideline 2002/96/EC.

High-quality materials and components were used in developing and manufacturing the device. These materials and components can be reused and recycled. Please consult the regulations governing the separate collection of electric/electronic waste valid for your country. These devices may not be disposed of with household waste. The correct disposal of waste can prevent possible negative consequences to the environment and humans.

## Technical data

Operating voltage:	AC 230 V ± 10 %
Mains frequency:	50 Hz
Power consumption:	max. 0.1 A
Current consumption:	Operation: 4.6 W Standby: > 3 W
Buttons:	1x WLAN 1x HomePlug AV 1x Reset
LEDs:	1x WLAN 1x HomePlug AV
Connections:	1x Ethernet RJ45
Temperature range	
Storage:	-25 °C to +70 °C
Operation:	0 °C to +45 °C
Humidity:	up to 93 % (non-condensing)
Protection class:	IP 20
Weight:	125 g
Dimensions (H x W x D):	70 x 70 x 41 mm

### Data transmission

Transmission speed:	500 Mbit/s
Data path:	Ethernet <-> 230 V mains
Range:	max. 300 m
Protocols:	CSMA/CA via 230 V mains

Transmission process:	asynchronous
Modulation:	OFDM - 1155 carrier, 1024/256/64-QAM, QPSK, BPSK

Security	
WLAN:	WPA2, factory pre-activated
Frequency:	2.4 GHz
HomePlug AV:	128-bit AES encryption (activated by pressing a button)

Operating systems:	from Windows® XP 32-bit, up to Windows® 8 32-bit/64-bit, Linux®, Mac OS® X and all TCP/IP operating systems.
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Standards	Auto MDI / X HomePlug AV
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Ethernet specification:	IEEE 802.3, IEEE 802.3x, IEEE 802.3u
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WLAN standard:	IEEE 802.11a, b, g, n and i
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## Warranty

The warranty is provided in accordance with statutory requirements via the specialist trade. Please submit or send faulty devices postage paid together with an error description to your responsible salesperson (specialist trade/installation company/specialist electrical trade). They will forward the devices to the Gira Service Center.