Socket outlet adapter
HomePlug AVMini
2710 00

GIRA

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Device description

Socket outlet adapter with HomePlug AV Standard. HomePlug AV Standard is a network via 230 V mains with a data transfer rate of up to 200 Mbit/s. Thus it is ideal for high requirements such as e.g. HDTV streaming (high resolution TV), internet telephony and fast internet. Computer, IP telephony and IP cameras, TV and other multimedia devices with network connection can be interconnected via suitable network connection boxes or socket outlet adapters.

A home network can be set up by combining two or more socket outlet adapters and/or network connection boxes (Art. No. 2750 00).

The range has a maximum of 300 metres.

The socket outlet adapter has a network connection, an encryption button and three control lights (LED).

The network cable is included in the scope of supply.

Data transmission is encrypted to protect your private sphere in the network.
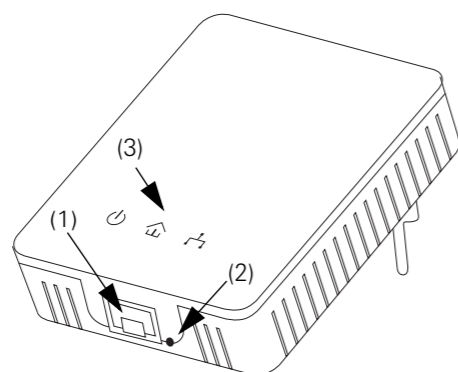
Device design

Fig. 1: Design
(1)   Network socket outlet with RJ45 plug
(2)   Encryption button
(3)   LED

Network socket outlet (1)

An RJ45 pin jack can be clipped into the device. In this way the socket outlet adapter can be connected with a computer or another network device such as IP telephone, router or set top box via network cable.

Encryption button (2)

The encryption button is located on the right next to the RJ45 pin jack. When the encryption button is pressed a random password is generated that protects the network.

LED (3)

The three LEDs on the front can assume the following conditions:

LED	Status	Meaning
⏻ Power	lights up green continuously	ready for operation
	flashes green	the device is in stand-by
⌂ HomePlug AV	lights up green continuously	the connection is suitable for HD video streaming
	flashes green	data is being transmitted
	lights up orange continuously	the connection is suitable for SD video streaming and online gaming
	flashes orange	data is being transmitted
	lights up red continuously	the connection is suitable for simple data transfer and internet access
	flashes red	data is being transmitted
⧉ Ethernet	lights up green continuously	connection to the ethernet network exists
	flashes green	data is being transmitted

Security ID-number

The Security-ID and the MAC address of the device is on the device label on the rear of the device. The device is addressed in the network with these unique identifications. You need this data for the configuration software.

> ℹ Make a note of the security-ID or MAC address of the socket outlet adapter and specify the location; keep this data in a safe place.

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

Connecting the socket outlet adapter

Connect the adapter via the included network cable to a network connection of your switched-on computer or to another network device.

Insert the device into a free socket outlet.

Your network is set up after you have connected at least two adapters as described above.

Energy-saving mode

A patented energy-saving mode is integrated as standard in the device that automatically reduces energy consumption if no requirements are due (stand-by).

An adapter connected to the computer can only switch to energy-saving mode when the network card of the switched-off computer is also inactive. If you use a network card that remains active despite the computer being switched off, then we recommend connecting the computer to the mains via a multiple socket outlet with on/off switch so that both the computer and network card are de-energised.

> ℹ The adapter is not accessible via the mains in stand-by operation.

As soon as the network device (e.g. computer) connected to the network interface is switched on again, the network connection box is again accessible via the mains supply.

Security in the network

The device is encrypted in state of delivery so that data transmission in the network is encrypted from the first transmission. The powerful 128-bit AES encryption provides maximum data security. The standard password in state of delivery is HomePlug AV.

To optimally protect your network, modify the standard password with the configuration software or press the encryption button.

Configuration software

> ℹ Configuration software
> www.download.gira.de
>
> The configuration software can be downloaded from the Gira download area.

The software enables you to:
- set up and expand a network
- display the transmission quality
- display the transmission data rate
- display the transmitting device
- modify settings
- call up device information
- display tips to optimise the network
- encrypt a network with a password

Encryption with the encryption button

Encrypting a new network with two adapters

After both adapters have been connected, press each encryption button for 1 second within two minutes following connection. By pressing the encryption button (fig. 1, (2)) the network is encrypted with a random password.

Expanding an existing network with a new adapter

If your existing network is already encrypted with the aid of the encryption button then you can integrate further adapters. After you have connected the new adapter, within two minutes first press the encryption button (1 second) of a device from your existing network and then the encryption button (1 second) of the new device. This integrates the new device into your network.
Repeat this for every further device to be integrated into the network.

Removing an adapter from a network

To remove a device from an existing network, press the encryption button of the corresponding device for at least 10 seconds. This device is assigned a new random password and is removed from your network. To then integrate the device into another network, carry out the procedure as described above according to whether you wish to set up a new network or expand an existing one.

Bandwidth optimisation

To decisively improve transmission performance in the network we recommend the following 'connection rules': Insert the device directly into a wall socket outlet and avoid a multiple socket outlet.
If several devices are to be supplied with current, use wall socket outlets that are widely spaced apart.

Important safety information

All safety and operating instructions should be read and understood before start-up of the device and should be kept for future reference. The device must not be opened. There are no parts suitable for maintenance by users inside the device.

> ℹ Do not attempt to repair the device yourself; contact qualified experts for all maintenance and repair. Danger of electric shock!

Use the device only in dry locations.
Never insert objects into the device opening.
To disconnect the device from the mains, remove the mains plug.
Do not expose the device to direct sunlight. Slots and openings on the housing are for ventilation purposes and must not be blocked or covered.
The device must not be set up in close proximity to a radiator.
The device should only be set up at locations with sufficient ventilation.
Disconnect the device from the mains supply before cleaning. Never use water, thinners, benzene, alcohol or other aggressive cleaning agents for cleaning the device as this may damage the housing. Only use a damp cloth.
The device must only be operated with supply mains as specified on the type plate.
In case of damage disconnect the device from the mains supply and contact your customer service. Damage exists when the supply cable or plug is damaged, when liquid has been spilled on the device or objects have entered the device, when the device was exposed to rain or water, when the device does not function although all operating instructions have been correctly observed, when the device housing has been damaged.

Technical data

Standards	Ethernet specification IEEE 802.3, IEEE 802.3x, IEEE 802.3u, Auto MDI / X, HomePlug AV
Protocols	CSMA/CA via 230 V network
Transmission speed	200 Mbit/s
Transmission process	asynchronous
Modulation	OFDM - 1155 carrier, 1024/ 256/64-QAM, QPSK, BPSK
Data path	Ethernet <-> 230 V mains
Range	max. 300 m
Safety	128bit AES encryption via 230 V mains supply (activated by pressing button)
LED	• Power • HomePlug AV • Ethernet
Device connection	Ethernet RJ45
Power consumption	maximum 0.1 A with: • maximum 4.3 W • Typical: 2.9 W • Stand-by 0.3 W
Power supply	AC 100 - 230V 50/60Hz
Temperature	Storage -25 °C to 70 °C Operation 0 °C to 40 °C
Weight	102 g
Dimensions (H x W x D)	80 x 66 x 29 mm
Ambient conditions	10-90% humidity (non-condensing)
System requirements	Ethernet interface
Operating systems	includes: Windows® XP 32bit, Windows® Vista 32/ 64bit, Linux®, Mac OS® X and all TCP/IP operating systems

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/electrical specialist trade).

They will forward the devices to the Gira Service Center.