GB Installation and Operating Instructions

HomePlug AV network connection box
2750 00

GIRA

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Device description

Network connection box with HomePlug AV Standard. HomePlug AV Standard is a network via 230 V mains with a data transmission rate of up to 200 Mbit/s.
This makes it ideal for high requirements such as HDTV streaming (high resolution TV), internet telephony and fast internet service. 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 network connection boxes and/or socket outlet adapters (Art. No. 2710 00).
The device is installed in a flush-mounted unit (flat/deep flush-mounted box and hollow-wall box).
The device is compatible with the Gira 0270 xx and 0284 xx covers into which an RJ45 plug can be clipped into. In this way the network connection box can be connected with a computer or another network device such as IP telephone, router or set top box via network cable.
Data transmission is encrypted to protect your private sphere in the network.
The range has a maximum of 300 metres.

Safety instructions

Important

Installation and mounting of electrical devices may only be carried out by qualified electricians.
Danger of electric shock. Isolate before working on the device or load. Take account of all circuit breakers supplying dangerous voltage to the device or load.
Device is not suitable for disconnection.
Failure to observe the instructions can result in damage to the device, fire or other dangers.
These instructions are part of the product and must stay with the customer.

Front

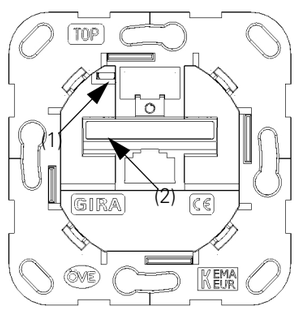

Fig. 1: Front of network connection box
(1) Encryption button
(2) Electronics label

Encryption button (1)

When the encryption button is pressed a random password is generated that protects the network.

The device cover (fig. 3, (1)) must be removed from the network connection box to press the encryption button. Unfasten the screw and lift off the cover. With a straight-blade screwdriver (max. 4mm wide) press into the recess for approx. 1 s (fig. 1, (1)). Refasten the device cover.

Security-ID number (2)

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

Make a note of the security-ID or MAC address of the network connection box 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).

Rear - installation

Observe alignment of the device when inserted into the flush-mounted box

Arrow and 'TOP' point upwards, see figure 1, network connection box

Fig. 2: Rear of network connection box

- Switch off mains voltage.
- Connect network connection box according to figure 2.
- Install the insert in the device box.
- Switch on mains voltage.
- Before the device cover with the frame is attached to the network connection box, press the encryption button if required.

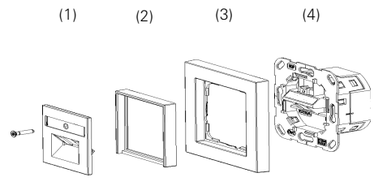

Fig. 3: Design
(1) Cover plate
(2) Intermediate plate
(3) Frame
(4) Flush-mounted insert
1, 2, 3 are not included in the scope of delivery.

Information for electricians

DANGER!
Installation and electrical connection

Electric shock if live parts are touched.
Electric shock may lead to death.
Isolate before working on the device. Cover up live parts in the vicinity!

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

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 network connection boxes

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

Expanding an existing network with a new network connection box

If your existing network is already encrypted with the aid of the encryption button then you can integrate further network connection boxes. After you have connected the new network connection box, 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 network connection box. This integrates the new device into your network.
Repeat this for every further network connection box to be integrated into the network.

Removing a network connection box from a network

To remove a device from an existing network, press the encryption button of the corresponding network connection box 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.

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). A network connection box 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.
The network connection box 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.

Technical data

Standards	Ethernet specification IEEE 802.3, IEEE 802.3x, IEEE 802.3u, Auto MDI / X, HomePlug AV
Protocols	CSMA/CA
Transmission speed	max. 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)
Device connection	Ethernet RJ45
Power consumption	maximum 0.1 A with: • maximum 4.3 W • Typical: 2.9 W • Stand-by 0.7 W
Power supply	AC 100-240 V, 50/60 Hz
Temperature	Storage -25 °C to 70 °C Operation 0 °C to 40 °C
Ambient conditions	10-90% humidity (non-condensing)
Operating systems	Windows® XP 32bit, Windows® Vista 32/64bit, Windows® 7 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.