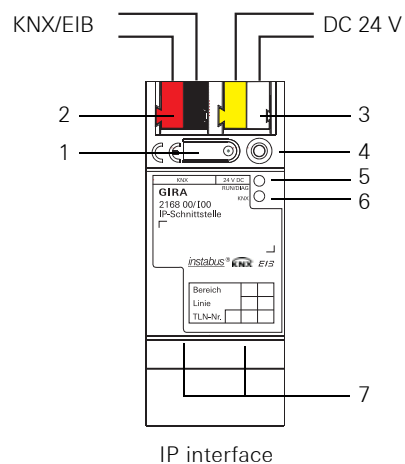KNX IP router
2167 00

KNX IP interface
2168 00

GIRA

Safety instructions

Installation and mounting of electrical devices may only be carried out by qualified electricians.
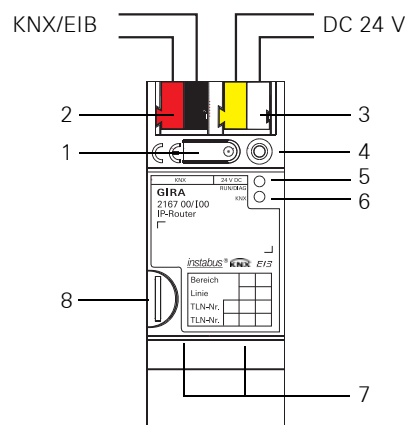
Failure to observe the instructions can result in damage to the device, fire or other dangers.

These instructions are part of the product and must stay with the customer.

Device design

IP interface

IP router

1. Programming button
2. KNX connection
3. External power supply connection
4. Programming LED:
   red = interface/router
   yellow = data logger/clock
5. Operation indication (green):
   on = ready for operation
   flashes = diagnosis code
6. Data reception on KNX line (yellow)
7. Network connection
8. microSD card reader

Function

System Information

This device is a product of the KNX system and complies with the KNX guidelines. Detailed specialist knowledge gained in KNX training courses is assumed for understanding.

Functionality of the device is dependent upon software.

Detailed information about software versions, specific ranges of functions and the software itself can be found in the manufacturer's product database.

Planning, installation and start-up of the device is with the aid of KNX-certified software. The up-to-date product database and technical descriptions are available on our internet page.

Proper use
IP interface:

Coupling of a PC for the addressing, programming and diagnosis of KNX/EIB components.

IP router:

Connection of KNX/EIB lines with aid of data networks and use of the internet protocol (IP).

Coupling of a KNX/EIB system together with the Gira HomeServer/FacilityServer.

Product features
IP interface:
- Supply via external DC 24 V

IP router:
- Filtering and forwarding of telegrams
- Use as line/area coupler
- Use as KNX clock
- Recording of KNX telegrams on microSD card
- Supply via external DC 24 V

Information for electricians

Installation and electrical connection

⚠️ **DANGER!**

Electric shock if live parts are touched in the installation surroundings.

Electric shock may lead to death.

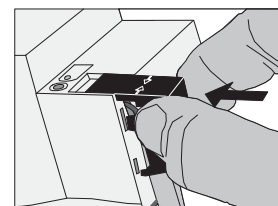**Isolate before working on the device. Cover up live parts in the vicinity!**

Mounting the device

Observe the temperature range. Ensure sufficient cooling.

- Snap the device onto a top-hat rail according to DIN EN 60715. See the illustration for installation position.
- Connect the external power supply to the connection terminal (3). We recommend: use the white-yellow connection terminal.
- Connect the KNX line with the red-black bus terminal (2).
- Attach the cover cap over the KNX/external power supply connection.
- Connect the network connection to the RJ pin jack with the RJ45 plug (7).
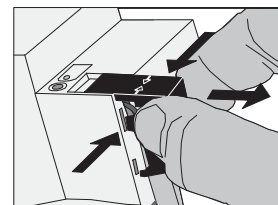- Insert the microSD card in the card reader (8) (IP router).

Attach the cover cap

A cover cap must be attached to protect the bus connection from dangerous voltages in the connection area.

- Guide the bus line to the rear.
- Attach the cover cap over the bus terminal until it engages.

Remove the cover cap

- Press the cover cap on the sides and remove.

Start-up

Load the physical address and application software

Use as	Physical address
Line coupler	x.y.0
Area coupler	x.0.0
Data interface	x.y.a
Data logger/clock	x.y.b

Start-up software from ETS3.0f.

IP router/IP interface
- Briefly press the programming button (1) (< 4 seconds).
  Programming LED (4) lights up red.
- Assign the physical address.
  Programming LED (4) goes out.
- Label the device with the physical address.
- Load the application software, filter tables, parameters etc.

IP router as data logger/clock
- Press and hold the programming button (1) (> 4 seconds).
  Programming LED (4) lights up yellow.
- Assign the physical address.
  Programming LED (4) goes out.
- Label the device with the physical address.
- Load the application software and parameters.

Appendix

Technical data
KNX medium	TP1
Start-up mode	S mode (ETS)
KNX supply	DC 21…30 V SELV
KNX current consumption	typ. 85 mA
KNX connection	Bus connection terminal

External supply
Voltage	DC 24...30 V
Power consumption	2 W (with DC 24 V)

Connection	Connection terminal
IP communication	Ethernet 10/100 BaseT (10/100 Mbit/s)
IP connection	RJ45 pin jack
Supported protocols:	ARP, ICMP, IGMPv3, DHCP, AutoIP, UDP/IP (core, routing, tunneling, device management)
microSD card	max. 32 GByte (SDHC)
Ambient temperature	0 °C to +45 °C
Storage temperature	-25 °C to +70 °C
Installation width	36 mm (2 HP)

Accessories
Additional power supply
Order No.: 1296 00
KNX/EIB power supply 320 mA
Order No.: 1086 00

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.