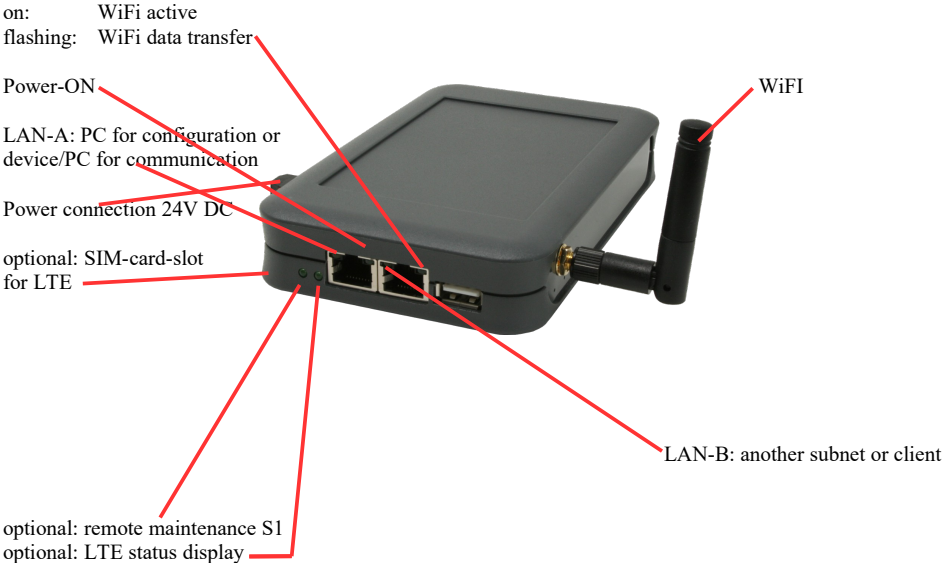


# Handling-Shortinstruction V1.0 for CONNECT-HS-Router + CONNECT-Router industrial WiFi-router

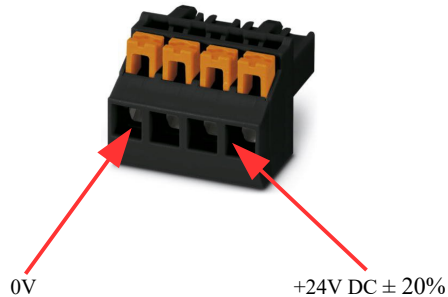
**Connectors:**



## Power connection :

Voltage: 24 V DC  $\pm$  20%  
power consumption : 1,2W

## Assignment of voltage plug :



## Initial start-up:

- CONNECT-Router creates a WLAN network with an SSID „CONNECT WiFi“ with active DHCP master (laptop is automatically assigned an IP address)
- Connect laptop to this WiFi network and open with browser webserver with IP: <http://192.168.2.1>

or

- Connect the PC to the LAN port using a LAN cable
- PC must be in the 192.168.2.xxx subnet

## Starting page:

**commissioning**

Before you can start to use the device you will have to set up some basic settings. Afterwards your device will be immediately ready for the communication.  
On the page "configuration" you can change these as well as some further settings at any time.

**basic configuration**

In the first step you have to specify how you want to use your device.  
Specifying the name is optional.

device name:

operation mode:  Bridge  
 Router

## Basic configuration:

Assign a name to the device for identification

2 operating modes are possible with the CONNECT-Router :

- Bridge Multiple interfaces connected to a common network
- Router Separation between LAN and WAN (Internet) network

For operation mode Bridge:

### LAN configuration

In the last step you have to configure how your device should be connected with the local network.

interfaces:  LAN-A  
 LAN-B  
 WLAN

### IP settings

IP configuration:  DHCP  
 manually

DHCP server:  enable

IP address:

subnet mask:

### WLAN settings

search:

mode:  ▼

SSID:

security type:  ▼

channel:  ▼

### LAN configuration:

Determine the interfaces that should be bridged

### IP settings:

- IP configuration: DHCP (parameters come from a DHCP master on the network)  
Manual (IP address + subnet mask fields must contain valid values)
- DHCP server: Device is a DHCP server on the selected interfaces
- IP address: IP address of the device
- subnet mask: Subnet mask of the device

### WLAN settings:

- Search: Searches for accessible WiFi networks and lists them. By clicking on an entry, the selected WiFi network is used for connection
- Modus: Access-Point (AP) [the CONNECT-Router opens its own WiFi]  
Client [the CONNECT-Router connects to an existing WiFi network]
- SSID: Name of the connected or created network
- Sicherheitsstufe: Open (no encryption )  
WEP (either 5 or 13 ASCII/10 or 26 hexadecimal characters )  
WPA (8-64 ASCII characters)  
WPA2 (8-64 ASCII characters)  
WPA/WPA2 8-64 ASCII characters (Independent automatic selection whether WPA or WPA2 )
- Kanal: Selection of the connection channel

for operation mode Router:

**WAN configuration**

Next you have to configure how your device should be connected with the internet / WAN.

WAN interface:

**IP settings**

IP configuration:  DHCP  
 manually

IP address:

subnet mask:

gateway address:

back

next

**WAN interface:**

**IP settings:**

- IP configuration:

- IP address:

- subnet mask:

- gateway address:

Set the WAN interface from LAN-A, LAN-B oder WLAN

DHCP (Parameters come from a DHCP master on the network)

Manuell (fields IP Address + Subnet Mask + Gateway Address must contain valid values)

IP address of the device

Subnet mask of the device

Gateway address of the device

**LAN configuration:**

Determine the interfaces that should be connected to the local network

**LAN configuration**

In the last step you have to configure how your device should be connected with the local network.

interfaces:  LAN-B  
 WLAN

**IP settings**

IP configuration:  DHCP  
 manually

DHCP server:  enable

IP address:

subnet mask:

**WLAN settings**

search:

mode:

SSID:

security type:

channel:

back

save

### IP settings:

- IP configuration: DHCP (Parameters come from a DHCP master on the network)  
Manuell (fields IP address + subnet mask must contain valid values)
- DHCP-Server: Device is a DHCP server on the selected interfaces
- IP address: IP address of the device
- subnet mask: Subnet mask of the device

### WLAN settings:

- Search: Searches for accessible WiFi networks and lists them; by clicking on an entry, the selected WiFi network is used for connection
- Modus: Access-Point (AP) [the CONNECT-Router opens its own WiFi]  
Client [the CONNECT-Router connects to an existing WiFi network]
- SSID: Name of the connected or created network
- Sicherheitsstufe: Open (no encryption )  
WEP (either 5 or 13 ASCII/10 or 26 hexadecimal characters)  
WPA (8-64 ASCII characters)  
WPA2 (8-64 ASCII characters)  
WPA/WPA2 8-64 ASCII characters (Independent automatic selection whether WPA or WPA2)
- Kanal: Selection of the connection channel

By "Save" the selected configuration is adopted. The device is ready for use in the specified operating mode after a short waiting period (maximum 10s).

You need the following operating modes for the following situations :

Situation	Operating mode	WLAN mode	Particularities
With a laptop around the S5/7 PLC + CONNECT-Router	Bridge	Access-Point	PLC via S5/7 LAN on LAN-A port, additional LAN participants on LAN-B port
Bring S5/7-PLC or LAN-participants into the existing WiFi network	Bridge	Client	PLC via S5/7-LAN / LAN-participant on LAN-A port, additional LAN-participant on LAN-B port
Create a separate subnet for connected devices	Router	Access-Point	LAN-A port to the company network, LAN-B port + WLAN to the machine network (Don't forget routes in the company network)
Extend LAN route Attention: 2 devices are required	Bridge	1. device Access-Point 2. device Client	One device as AP and the second as client

After selecting the configuration, save it in the device and after a short initialization time (max. 10s) the devices are ready for operation.

You can find out more about the operating modes in the device manual on the CONNECT-Router product page.

Under the web-address <https://www.process-informatik.de> are product specific documentations or software-driver/-tools available to download.  
If you have questions or suggestions about the product, please don't hesitate to contact us.

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**Menutree Website:**

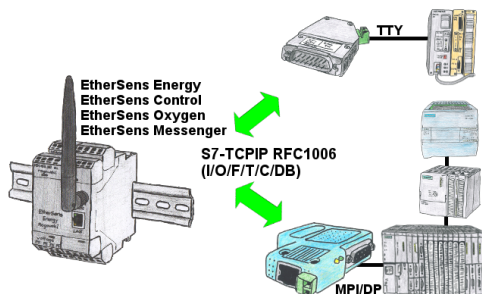
- + Products / docu / downloads
- + Hardware
  - + Router 3G / WLAN/WIFI
  - + CONNECT-Router-devices
  - + CONNECT-Router

**QR-Code Website:**



Please make sure to update your drivers before using our products.

## PLC coupling S5 and S7



Data-processing/-recording of PLC-data?

Data-logging of recorded process-values in a DB writing or read out in the connected PLC via network, thanks to RFC1006-communication in the devices is nothing in the way.

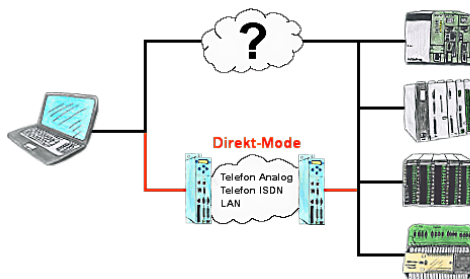
Even accesses to flags (individual bits of the words) are possible at any time. Configure the data via the integrated web-server that gets target-PLC or returns the necessary-data.

If the PLC does not have an Ethernet-port, with optional adapters, enable this communication:

\* S5 over S5-LAN++

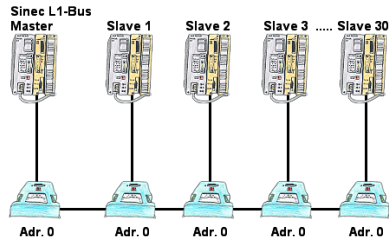
\* S7-PPI/MPI/Profibus over S7-LAN

## Direct-mode "extended serial interface"



There is an unsupported control or data logger or converter integrated in your installation which protocol is not supported? No problem, the signs that the PC in the office sends will be transferred via telephone line by the Direct-mode, and on-site reproduced by the TP-II. The way back is identical. So in that case there's also a communication to the electronic devices available.

## Sinec-L1-bus configuration without BT-777-terminal



You have to configure a Sinec-L1-bus, own the master, but there's no BT-777-busterminal to buy? No problem, connect the IBX-Klemme to every S5-PLC that is in the run via the optional IBX-SPS-cable, supply every IBX-Klemme with ext. 24V DC if the PLC is not able to provide it, set-up the address 0 and define the actual L1-bus-address in the PLC. Now your master can communicate with the slave-assemblies.

## Detect failure of Profinet-devices



Identify devices that are likely to fail in the near future.  
Detect defective devices that no longer respond to PN protocols.  
Defective devices are reported by email and logged.  
No long troubleshooting thanks to exact station information.