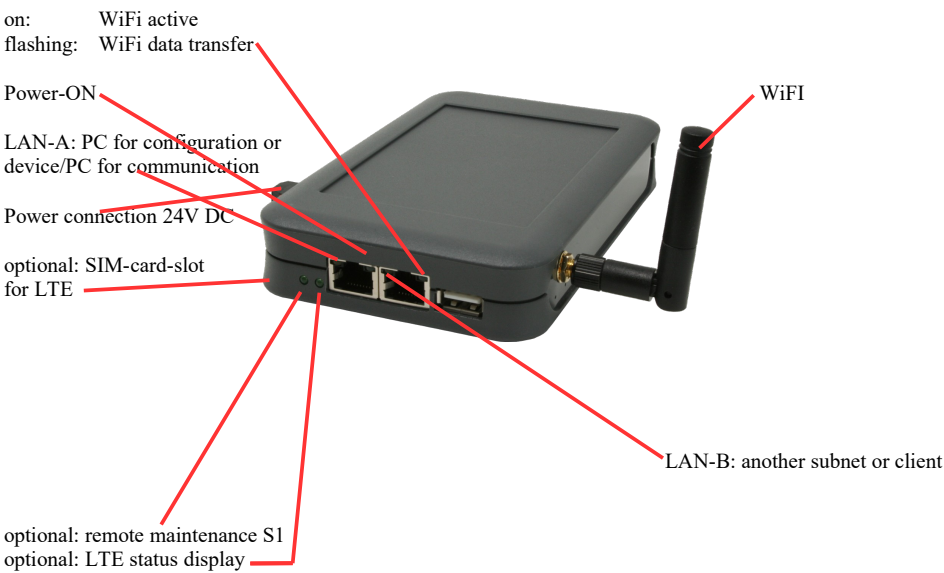
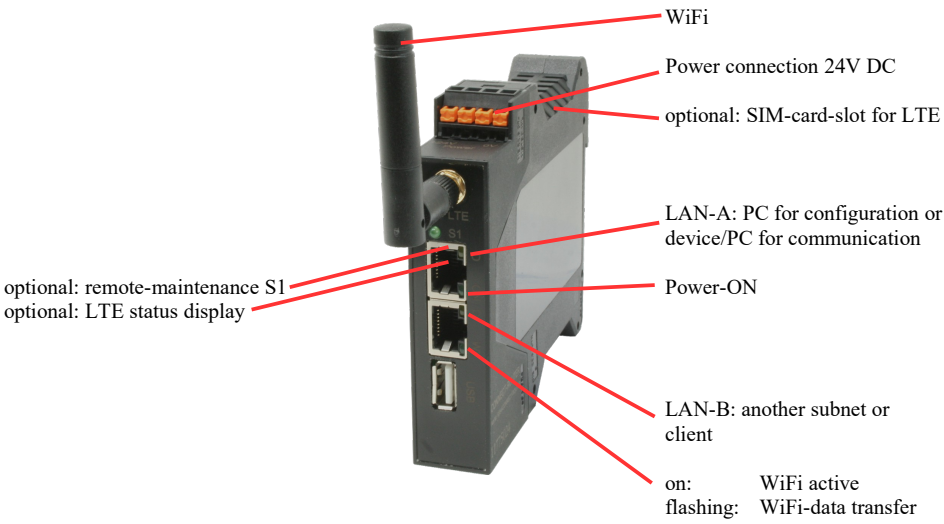


# Handling-Shortinstruction V1.0 for CONNECT-HS-Router + CONNECT-Router industrial WiFi-router

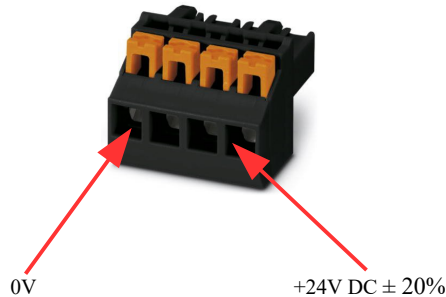
**Connectors:**



## 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

next

## 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)<br>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]<br>Client [the CONNECT-Router connects to an existing WiFi network]  |
| - SSID:             | Name of the connected or created network   |
| - Sicherheitsstufe: | Open (no encryption )<br>WEP (either 5 or 13 ASCII/10 or 26 hexadecimal characters )<br>WPA (8-64 ASCII characters)<br>WPA2 (8-64 ASCII characters)<br>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: LAN-A ▾

**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: start search

mode: Access Point (AP) ▾

SSID: CONNECT WIFI

security type: open ▾

channel: auto 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.

## Remote-maintenance Siemens-S5-PLC over VPN-server



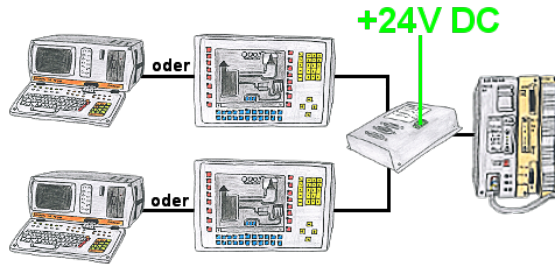
Remote-maintenance of a Siemens-S5-controller with S5-LAN++ on PD-port over separate VPN-server

## Analogue and ISDN - how do they come together?



You have on the plant side only ISDN for telephone, but in your office there is only an analogue system? No problem, you have to install on the clients side the TP-II and activate there the analogue-emulation in the device. No, the modem signals will be send digitalized over ISDN and you can connect to it. So, you will be able to communicate though the telephone systems are different and your client isnt forced to install an analogue connection.

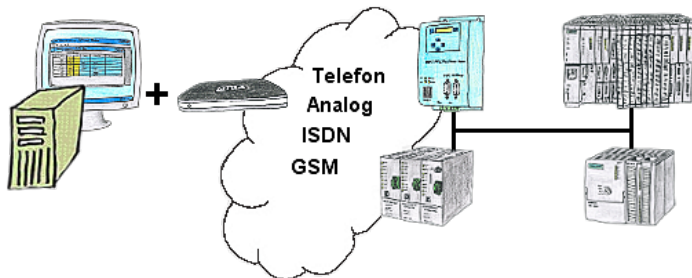
## PD-interface of the S5-PLC already occupied



Your PD-interface of the S5-PLC is already occupied with a panel and you should accomplish program modifications without removing the panel? No problem, connect the Multiplexer one-time to the PLC and then connect the panel and also your PC to the Multiplexer. Now you can work parallel with the PLC without the need of affecting the operation of the panel. You can even work with 2 programming devices simultaneously, 2x open the same block, only changes which are stored at last will be finally stored in the PLC. Also ideal for trainings purposes if PLC's with IO's are scare goods.

The 24V-version is ideal for control-cabinet-installation due to the smaller footprint. A universal multiplexer no matter what you connect at the two PG-sockets, both participants communicate parallel with the control.

## Remote maintenance of a S7-PLC[FREWARE without support]



You have to solve a problem in the PLC-program, but the installation is not placed nearby? No problem, start your PG-2000-software with "option teleservice", activate your modem and after selection intra PG-2000-software access to the PLC is possible as if being on-site.