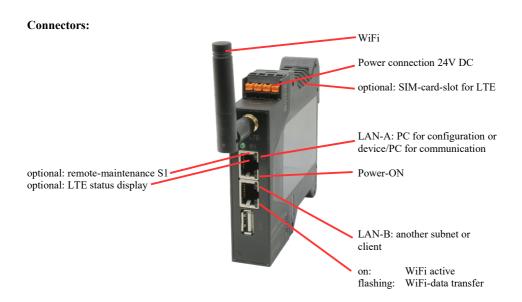
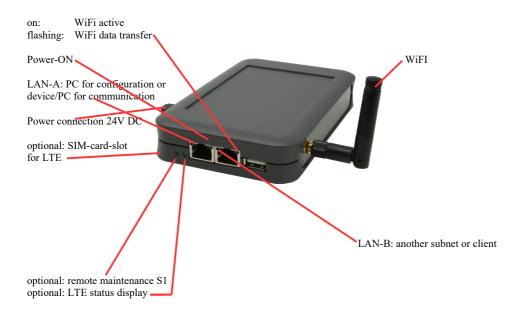
# Handling-Shortinstruction V1.0 for

# CONNECT-HS-Router + CONNECT-Router industrial WiFi-router





#### Power connection:

Voltage:  $24 \text{ V DC} \pm 20\%$ 

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:



#### **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:

In the last step you have to configure with the local network.	how your device should be connected
interfaces:	<ul><li>✓ LAN-A</li><li>✓ LAN-B</li><li>✓ WLAN</li></ul>
IP settings	
IP configuration:	O DHCP manually
DHCP server:	✓ enable
IP address:	
subnet mask:	
─WLAN settings	
search:	start search
mode:	Access Point (AP) V
SSID:	CONNECT WiFi
security type:	open v
channel:	auto 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)

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:

- DHCP server:

- 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 hexidecimal 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 interface:

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

IP settings:- IP configuration:

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

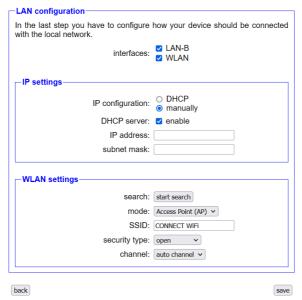
Manuell (fields IP Address + Subnet Mask + Gateway Address must contain

valid values)

IP address:
 subnet mask:
 gateway address:
 IP address of the device
 Gateway address of the device

#### LAN configuration:

Determine the interfaces that should be connected to the local network



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]

(no encryption)

- SSID: Name of the connected or created network

- Sicherheitsstufe: Open

WEP (either 5 or 13 ASCII/10 or 26 hexidecimal 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.

Process-Informatik Entwicklungsgesellschaft mbH Im Gewerbegebiet 1 DE-73116 Wäschenbeuren +49 (0) 7172-92666-0

info@process-informatik.de https://www.process-informatik.de

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#### **Menutree Website:**

#### **QR-Code Website:**

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

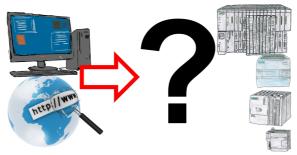






Please make sure to update your drivers before using our products.

## Interface-products for S7-PLC



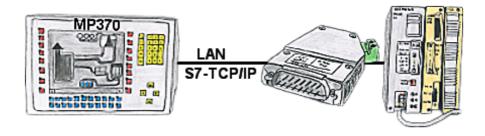
Communication with S7-PLC, just how and with what?

Data communication with S7-PLC from PC or other devices, which interface fits on/to my controller. All questions you don't have to worry about. With "Programming adapter S7" you get the right interface for PPI, MPI and Profibus.

Select the interface of your PC or device (serial via COM-port, USB, Ethernet (network), WIFI) and you will be shown the possible products.

Which one you use then is up to you.

# Watching of S5- PLC's with panel for S7-PLC



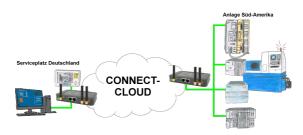
Your panel only has a LAN-socket as PLC-interface and supports only S7-RFC1006, no problem. Connect this socket with the S5-LAN++ and plug it directly on the PD-interface of the PLC. The S5-LAN++ performs adverse your panel as a S7-PLC although you receive the data from the S5-PLC. Then access to the variables and data of the S5-PLC is already available.

#### Without LAN-cable round of the PLC



Your're right in the middle of your production line and and should move around the machine and simultaneously observe / manage. No problem, you parameterize the S7-WLAN-Bridge, connect to the MPI-LAN and connect to an access-point or with the ad-hoc-network of your laptop and are ONLINE on the PLC.

#### Worldwide remote-access thanks to our own cloud



Worldwide remote-maintenance without additional costs thanks to our own cloud

Your devices connect to your own cloud, no matter where they are in the world. Only your devices are in your own private cloud, no one else has access to the cloud. In addition, you can provide each device with its own connection-password, so that the individual systems are protected despite the private cloud.

No registration on any portals, no hidden additional costs, your devices in your own cloud are always accessible.

This is how remote maintenance/remote access is fun.