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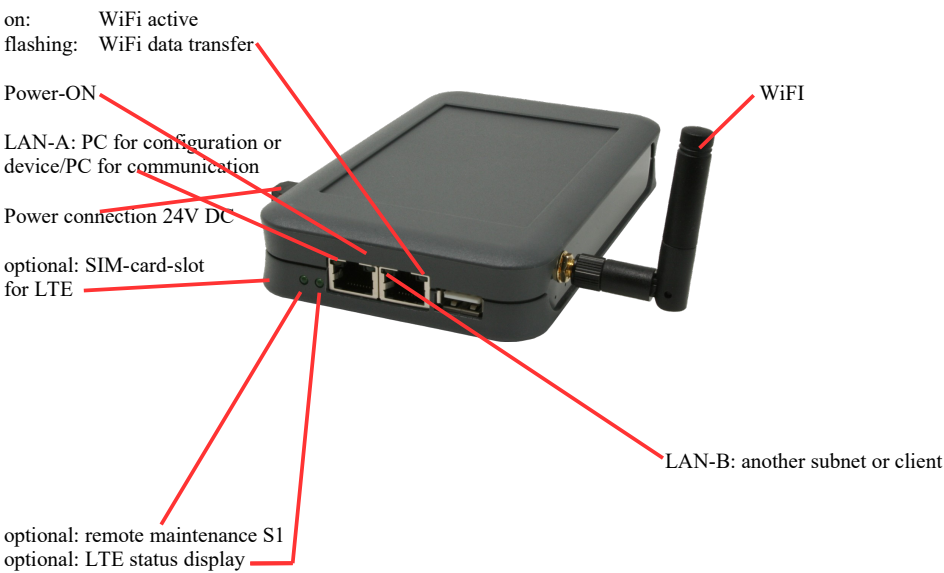
CONNECT-HS-Router + CONNECT-Router
industrial WiFi-router
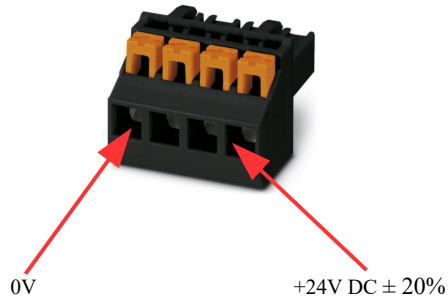
Connectors:

WiFi

Power connection 24V DC

optional: SIM-card-slot for LTE

LAN-A: PC for configuration or device/PC for communication

Power-ON

optional: remote-maintenance S1
optional: LTE status display

LAN-B: another subnet or client

on: WiFi active
flashing: WiFi-data transfer

on: WiFi active
flashing: WiFi data transfer

Power-ON

LAN-A: PC for configuration or device/PC for communication

Power connection 24V DC

optional: SIM-card-slot for LTE

WiFI

LAN-B: another subnet or client

optional: remote maintenance S1
optional: LTE status display

Power connection :

Voltage: 24 V DC ± 20%
power consumption :   1,2W

Assignment of voltage plug :

0V   +24V DC ± 20%

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:

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: [start search]

mode: [Access Point (AP) ▼]

SSID: [CONNECT WiFi]

security type: [open ▼]

channel: [auto channel ▼]

[back]   [save]

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 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 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:	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:	IP address of the device
- subnet mask:	Subnet mask of the device
- gateway address:	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 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.

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Menutree Website: **QR-Code Website:**

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

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

Variable-chart without Step7-programming package
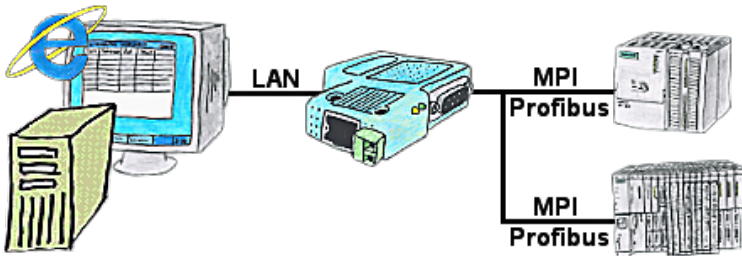
You would like to give your customer the opportunity to read current numbers of the manufacturing Online, without installing a visualisation or even the STEP7-package? Then a S7-LAN with the option Status Variable" is needed, and your customer can take a look at these password protected data on a site of the integrated webserver.

Data backup S7-PLC PN-port on SD-card via dig. IO
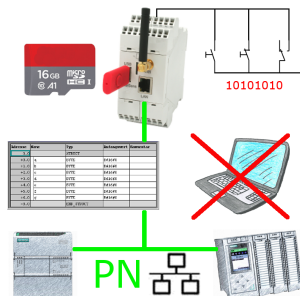
Via digital input triggered DB-backup/-restore without additional PC via PN-port to SD-card
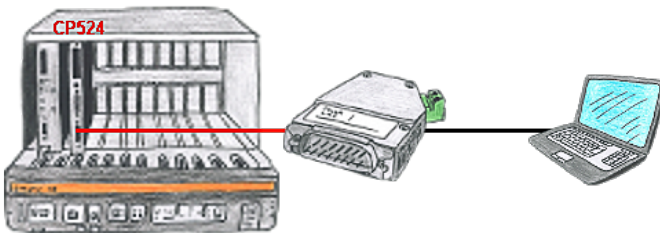
Via the connection-menu and the included bus-device-display, it is possible to display the diagnostics buffer of the respective device without having to open Simatic-Manager or TIA-Portal separately.

The data received from the module is output directly in one piece without the hassle of changing tabs. All data at a glance.

Your visualisation-software does not support a 3964R-protocol, but you have to apply this package? No problem, connect the 3964R-LAN to your CP and activate the RFC1006-emulation in the module. Now your software gets the data from the module via RFC1006, which in turn communicates with the assembly via 3964R.