Using S7-LAN with an ALF as a WLAN Router
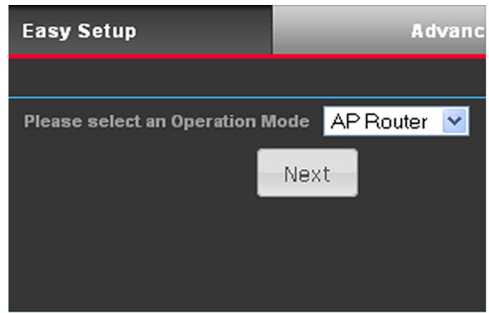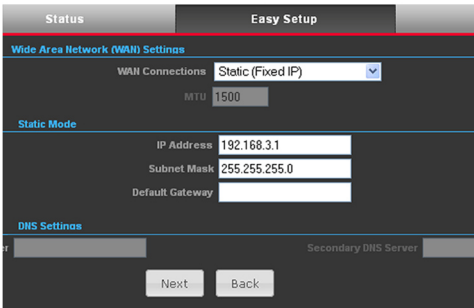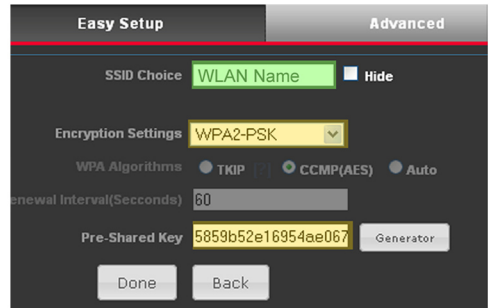
24V power source

patch cable

1 Connect the 24V power source and the computer to configure

2 Select „AP-Router" on menu „Easy Setup"

3 Configure your IP address and subnet mask

4 Now configure your networkname and encryption

Our recommended encryption is WPA2

5 Connect the S7-LAN with a patch cable
Your S7-LAN is now available from every WLAN participants

6 Installing TIC driver

TIC driver avaiable on www.tpa-partner.de

Integrate a S7-LAN in a avaiable WLAN with an ALF

24V power source

patch cable

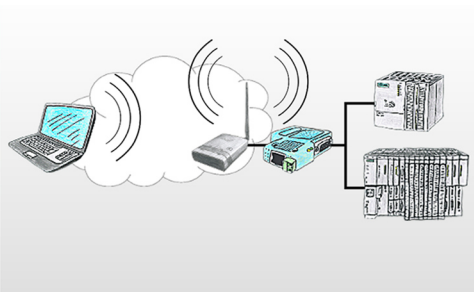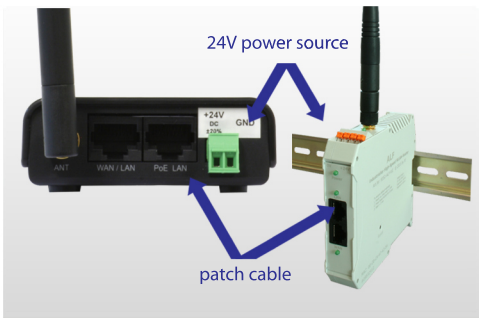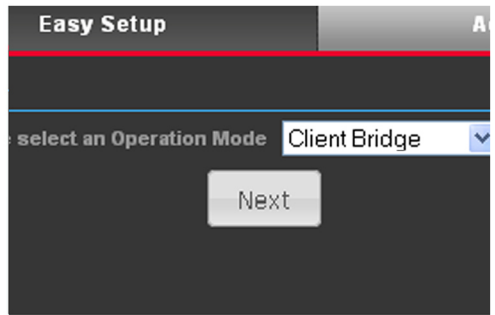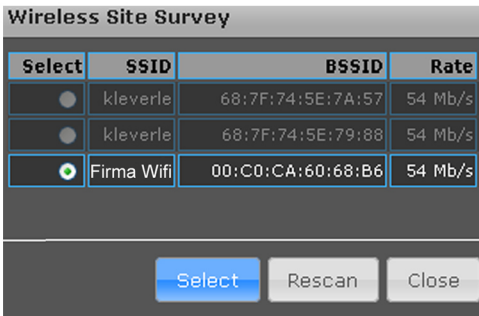**1** Connect the 24V power source and the computer to configure

Easy Setup

select an Operation Mode `Client Bridge`

Next

2 Select „Client Bridge" on menu „Easy Setup"

Wireless Site Survey

Select	SSID	BSSID	Rate
○	kleverle	68:7F:74:5E:7A:57	54 Mb/s
○	kleverle	68:7F:74:5E:79:88	54 Mb/s
◉	Firma Wifi	00:C0:CA:60:68:B6	54 Mb/s

Select Rescan Close

3 Press „Site Survey" to search every WLAN and select your WLAN

4 Select your WLAN and enter your passwort. Press „Done" to confirm

5 Connect the S7-LAN with a patch cable
Every network has to be in the same IP area
Your Module is now integrated

6 Installing TIC driver

TIC driver avaiable on
www.tpa-partner.de

Integrate a S5-LAN++ in a avaiable WLAN with an ALF

24V power source

patch cable
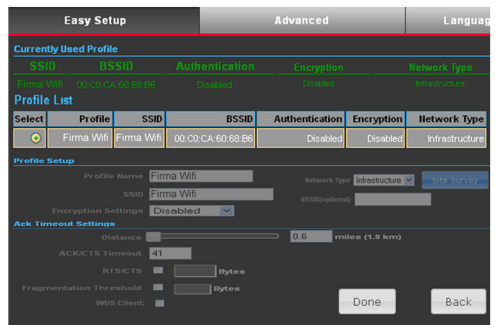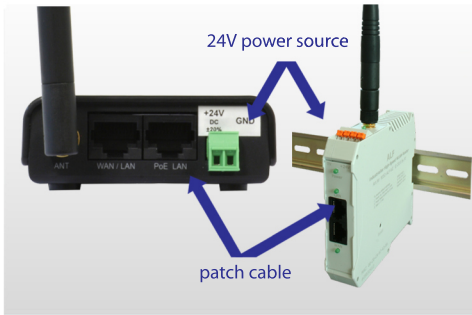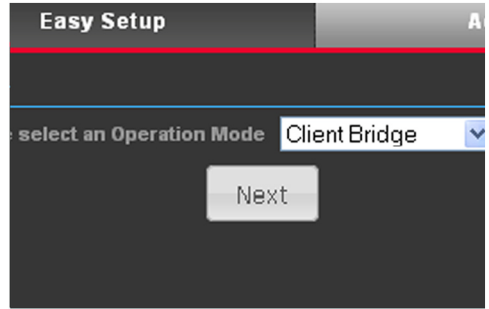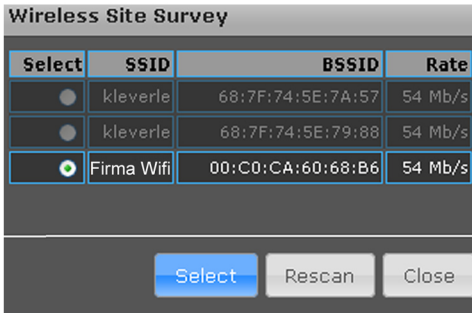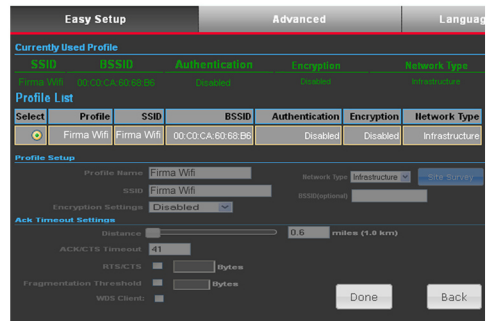
1 Connect the 24V power source and the computer to configure

Easy Setup A

select an Operation Mode | Client Bridge

Next

2 Select „Client Bridge" on menu „Easy Setup"

Wireless Site Survey

Select	SSID	BSSID	Rate
○	kleverle	68:7F:74:5E:7A:57	54 Mb/s
○	kleverle	68:7F:74:5E:79:88	54 Mb/s
◉	Firma Wifi	00:C0:CA:60:68:B6	54 Mb/s

Select   Rescan   Close

3 Press „Site Survey" to search every WLAN and select your WLAN

Easy Setup   Advanced   Languag

Currently Used Profile

SSID	BSSID	Authentication	Encryption	Network Type
Firma Wifi	00:C0:CA:60:68:B6	Disabled	Disabled	Infrastructure

Profile List

Select	Profile	SSID	BSSID	Authentication	Encryption	Network Type
◉	Firma Wifi	Firma Wifi	00:C0:CA:60:68:B6	Disabled	Disabled	Infrastructure

Profile Setup

Profile Name Firma Wifi   Network Type Infrastructure   Site Survey
SSID Firma Wifi   BSSID(optional)
Encryption Settings Disabled

Ack Timeout Settings

Distance   0.6   miles (1.0 km)
ACK/CTS Timeout 41
RTS/CTS ☐   Bytes
Fragmentation Threshold ☐   Bytes
WDS Client: ☐   Done   Back

4 Select your WLAN and enter your passwort. Press „Done" to confirm
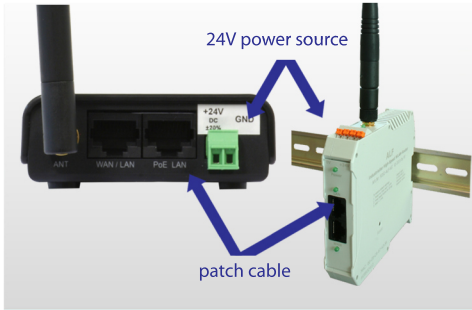

5 Connect the S5-LAN++ with a patch cable
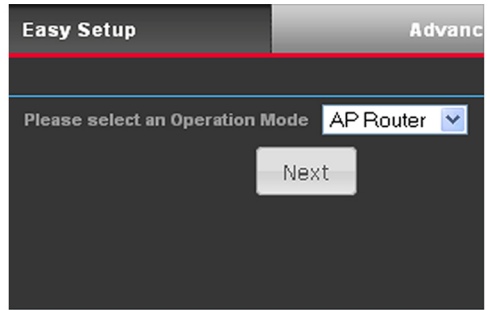Every network has to be in the same IP area
Your Module is now integrated

Step 5

6 Installation:
- S5-Patch for original Step5
- PLCVCOM (virtual COM-Port)
Tools available on
www.tpa-partner.de

Using S5-LAN++ with an ALF as a WLAN Router
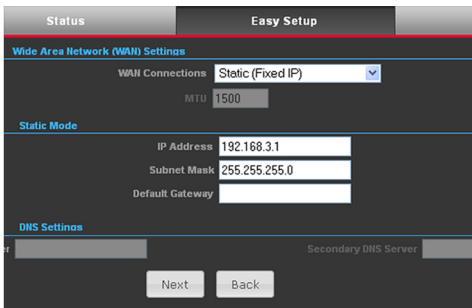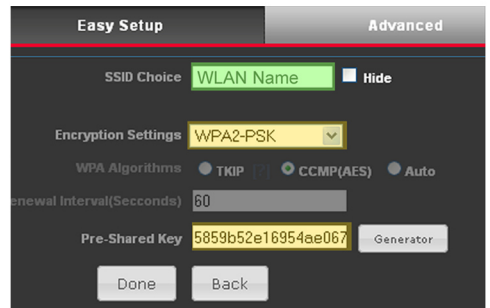

24V power source

patch cable

1 Connect the 24V power source and the computer to configure

Easy Setup — Advanc

Please select an Operation Mode — AP Router ▾

Next

2 Select „AP-Router" on menu „Easy Setup"

Status — Easy Setup

Wide Area Network (WAN) Settings

WAN Connections — Static (Fixed IP) ▾
MTU — 1500

Static Mode

IP Address — 192.168.3.1
Subnet Mask — 255.255.255.0
Default Gateway —

DNS Settings

Secondary DNS Server

Next — Back

3 Configure your IP address and subnet mask

Easy Setup — Advanced

SSID Choice — WLAN Name — ☐ Hide

Encryption Settings — WPA2-PSK ▾

WPA Algorithms — ○ TKIP [?] ● CCMP(AES) ○ Auto

Renewal Interval(Secconds) — 60

Pre-Shared Key — 5859b52e16954ae067 — Generator

Done — Back

4 Now configure your networkname and encryption

Our recommended encryption is WPA2

5 Connect the S5-LAN++ with a patch cable
Your S5-LAN++ will get an IP from the DHCP server and is now available from every WLAN participants

Step 5

6 Installation:
- S5-Patch for original Step5
- PLCVCOM (virtual COM-Port)
Tools available on
www.tpa-partner.de

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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https://www.process-informatik.de

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Menutree Website: **QR-Code Website:**
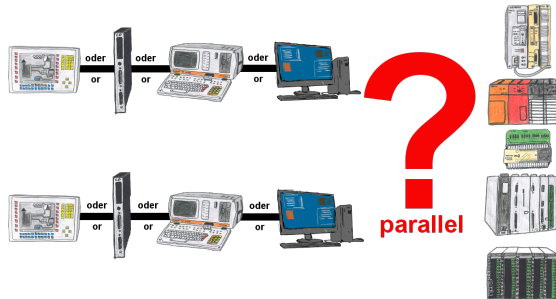
+ Products / docu / downloads
  + Hardware
    + Programming devices
      + S7
        + WLAN/WIFI
          + Profinet PLCs / Ethernet-CPs
            + ALF-Devices
              + ALF

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

Your Programming-interface of the PLC is already occupied with a panel or PC or communication-processor?

You should accomplish program modifications without removing the other communication-partner? You connect the PLC-specific Multiplexer one-time to the PLC and then connect the communication-partner and also your PC. Now you can work parallel with the PLC without the need of affecting the operation/communication of the panel/CP.

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.

Multiplexer-devices of the PG-MUX-II-family are the ultimate service-device, regardless of what you plug into the two PG-sockets, both participants communicate parallel with the controller.

Turbo-LAN-interface for the S5
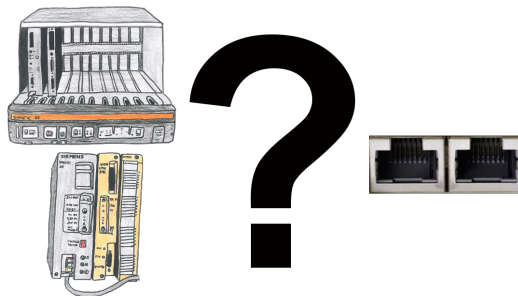
S5-115U/135U/150U/155U and need further processing of data via network and PG interface too slow?

Plug the "S5-TCPIP 100" interface-card into a free slot in the rack, integrate the card into the S5 and nothing stands in the way of communication. Access the controller-data "parallel" to the PG-interface with "Power", regardless of whether it is "TCP/IP" or "ISO on TCP (RFC1006)", "ISO (H1)", "Modbus on TCP" or "SPS header", the interface-card reacts to the various protocols according to your configuration and returns the required data.

With the integrated 4-way-switch, several LAN-participants can be connected to the card and thus to the controller.
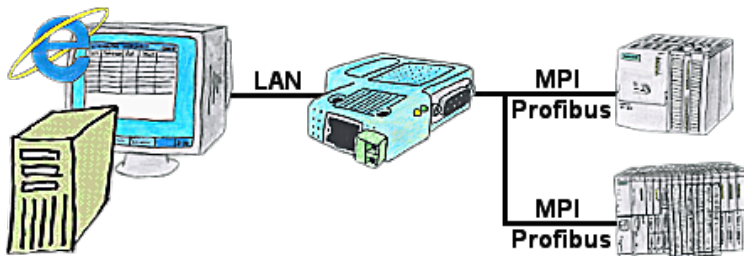
You would like to give your customer the opportunity to read current numbers of the manufacturing Online, without installing a visualisation or even the STEP7-package? Then a S7-LAN with the option Status Variable" is needed, and your customer can take a look at these password protected data on a site of the integrated webserver.

Active on every S5-PLC
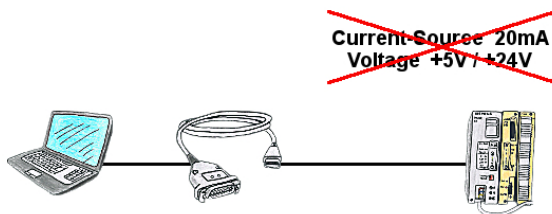
PLC's without current-sources (+20mA) and voltages (5V/24V) at the PG-interface such as the AS511-plug-in card?
The PG-USB-cable does not need anything, it is supplied directly from the USB-socket to which it was plugged. It is active towards its communication-partners, contains its own current-sources.
Universally connected to the S5-PLC without worrying about the supply. Function also given on controls with current-sources/voltages.
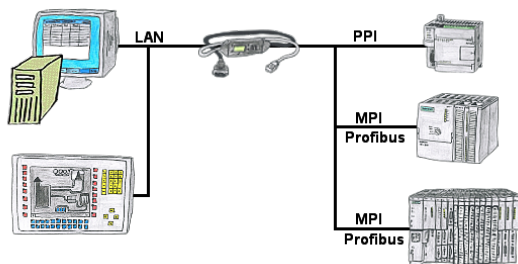
Your panel only has a LAN-socket as PLC-interface? No problem, connect this socket with the S7-LAN or the MPI-LAN-cable and plug it directly on the PPI/MPI/Profibus of the PLC. Then access to the variables and data of the PLC is already available.

Data backup S5-PLC on USB-stick
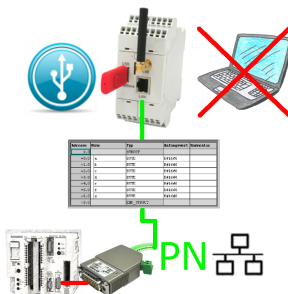
S5-PLC triggered DB-backup/-restore without additional PC via PG-socket and Ethernet on USB-stick