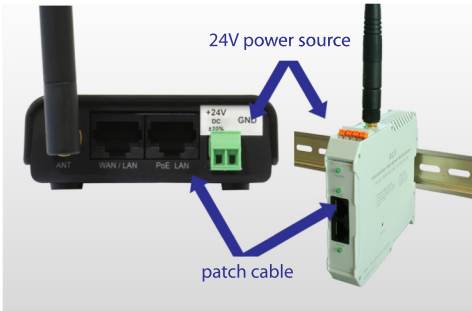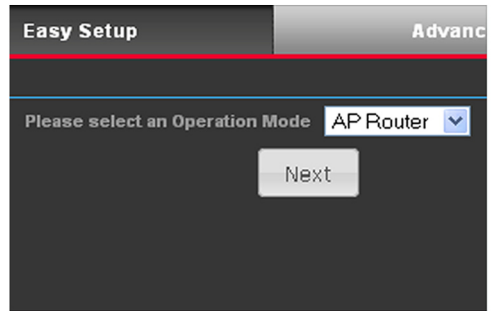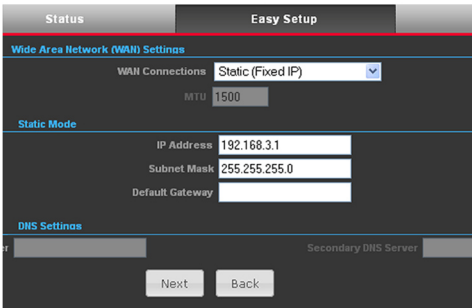# Using S7-LAN with an ALF as a WLAN Router
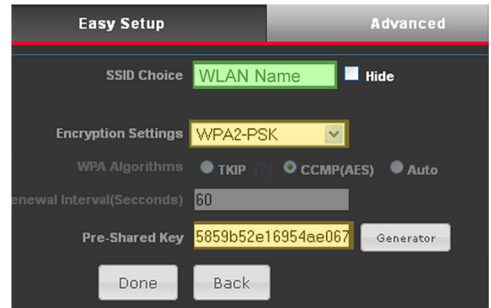
1 Connect the 24V power source and the computer to configure

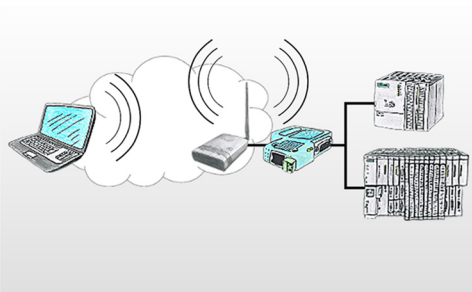**2** Select „AP-Router" on menu „Easy Setup"

3 Configure your IP address and subnet mask

4 Now configure your networkname and encryption
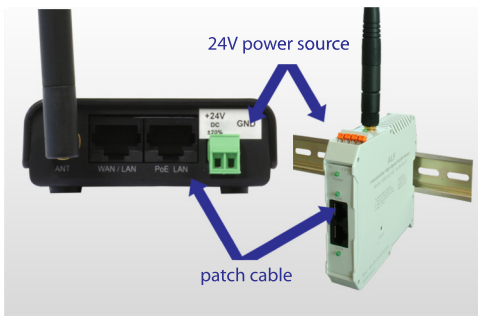
Our recommended encryption is WPA2

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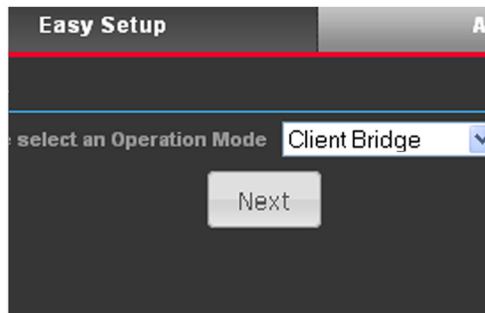Your S7-LAN is now available from every WLAN participants

6 Installing TIC driver

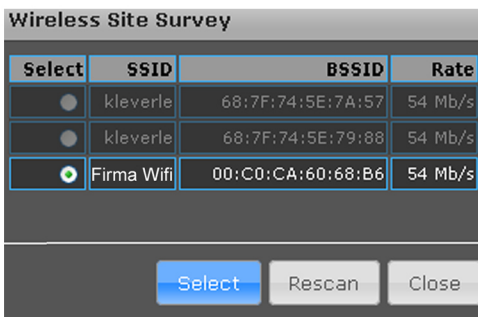TIC driver avaiable on www.tpa-partner.de

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
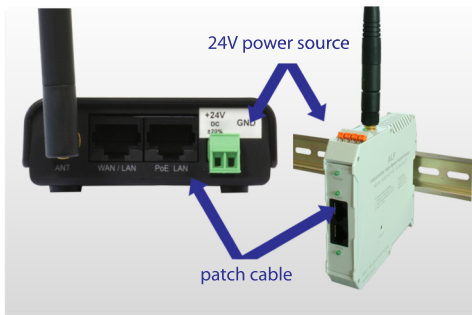
patch cable

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

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
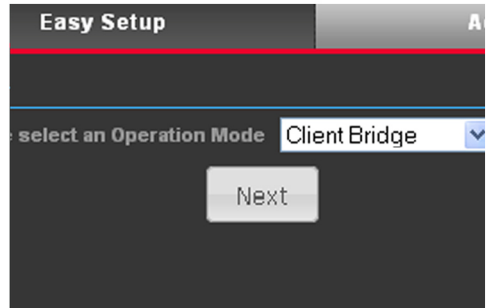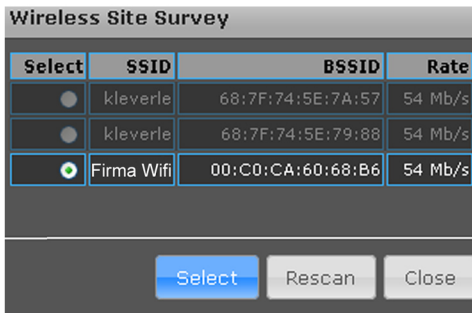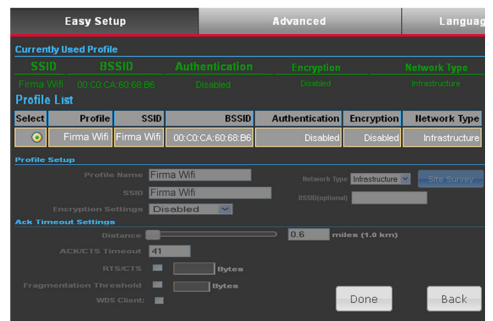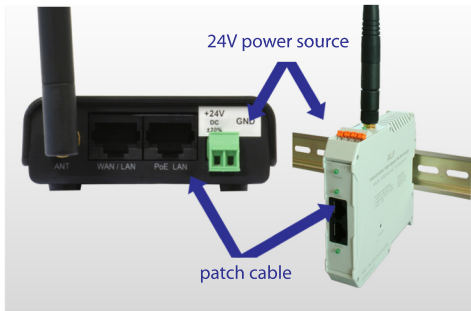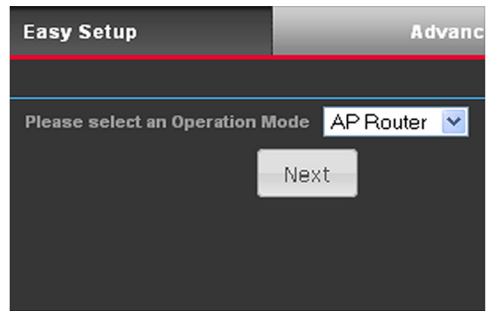Your Module is now integrated

Step 5

6 Installation:
- S5-Patch for original Step5
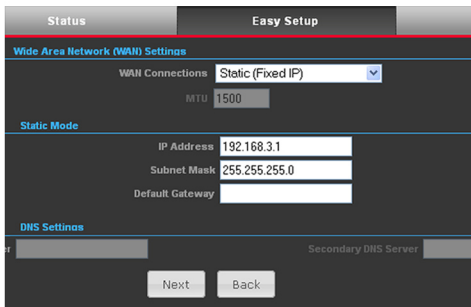- PLCVCOM (virtual COM-Port)
Tools available on
www.tpa-partner.de
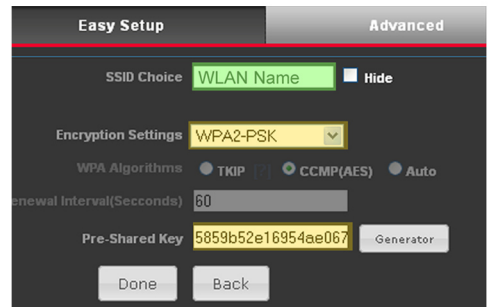
Using S5-LAN++ with an ALF as a WLAN Router

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

enewal 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

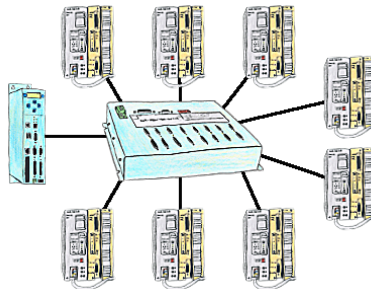**Menutree Website:**

+ Products / docu / downloads
  + Hardware
    + Programming devices
      + S7
        + WLAN/WIFI
          + Profinet PLCs / Ethernet-CPs
            + ALF-Devices
              + ALF

QR-Code Website:

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

Remote maintenance of centralized PLC-devices

You have many PLC and you want to programm them central on one place? No problem, you have to connect them all to the KOR/MUX-Tele-Switch, connect it with the TP-II and after telephone connect you will be able with the PD-bus-selection of your Step5-software to go ONLINE. Of course the MOR/MUX-Tele-Switch is cascadable, so you can connect up to 30 PLCs to the 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.

Project/history-administration of PLC-programming
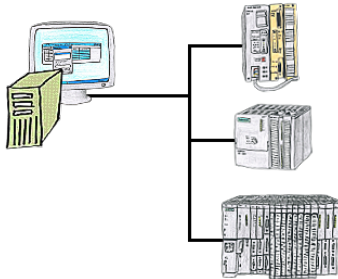
Who doesn't know this? When accessing the PLC you find out that parts of the program flow has been changed and none of the colleagues/employees are responsible for it? Therefore install the "option controller" for the PG-2000-software, and every activity of the employees working with the program will be recorded. So you can identify the one employee very quickly and changes are ex post comprehensible, too.

Siemens S5
Read / Write
PG-Schnittstelle

Siemens S7
Read / Write
PPI / MPI / DP

EtherSens
Analog IN / OUT
Digital IN / OUT

Energieanalyse
(EN 50470-1 EN 50470-3)
EtherSens "Energy"
L1, L2, L3, N Echtzeitanalyse
bis 8000 Messungen / Sek
Spannungen bis 500 VAC
Ströme über 1000 A
Hz / cos phi / Leistungsfaktor
Wirk- / Blind- / Scheinleistung kW
Energieverbrauch kWh

Alle Messgrößen
U / I / °C / O2 / H2O, m, kg, m/s ...
dezentrale Analyse, Überwachen, Alarmieren
zentral protokollieren + beobachten

Vorhandene Sensoren direkt einbinden
analoge und digitale Ein-/Ausgänge
elektrisch und Messkurve frei konfigurieren
Messgrößen einfach über WEB abgleichen

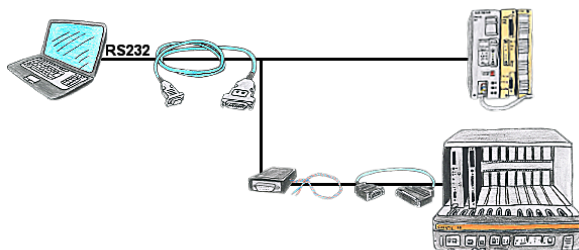Klick-Montage auf Standard-Hutschiene
Stromversorgung 230VAC / 24VDC

Integrierter Webserver
Zugriff auf alle Sensoren im Netz

Protokoll auf SD-Karte + FTP-Server
in verschiedene Datenformate
bei Grenzen E-Mail + Ausgänge über Netz
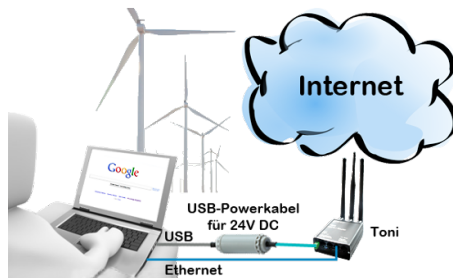
Serial communication to the S5-PLC

You have a PC with programming software and a 9pin COM-port as interface? No problem, for this purpose the PG-UNI-II-cable is exactly the right product. Connect it to PLC and PC and you're Online. The communication itself is visible by the both included LEDs. Even the 25pin interface of the AS511-card is no problem. You need the NETZ-adapter and also the AG-150-adapter and then this control is programmable, too.

Network analysis/monitoring made easy
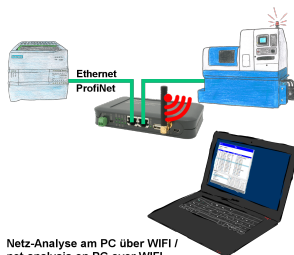
Netz-Analyse am PC über WIFI /
net-analysis on PC over WIFI
Störungs-Erkennung / Failure detection
Ausfall-Wahrscheinlichkeit / Failure probability
Protokoll-Aufzeichnung / Protocol recording

Analyze network-problems and network-conflicts with little effort. Simply plug the TINA into the network, open website of the integrated web-server via WIFI and start working.

No unnecessary search for a hub to record the logs. TINA records in the usual WireShark-format, i.e. save the recording on a PC and view and evaluate it later with WireShark.

Monitoring the network, automatically send an email to the administrator if there is no participant or if there is a new participant (Intrusion-detection into the network)

Calculate the probability of failure of the participants

All of this can be achieved with TINA