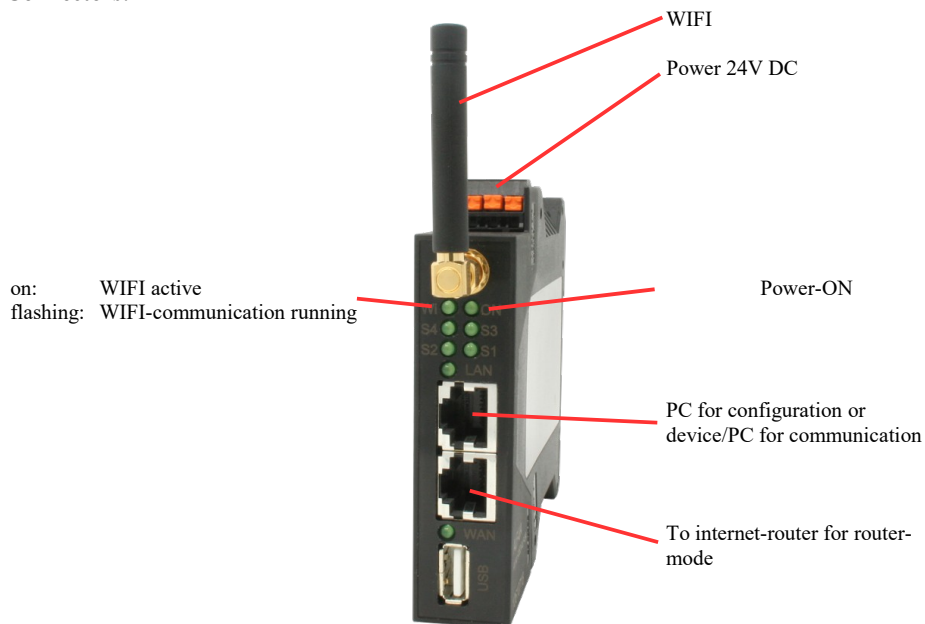


# Handling-short-instruction V1.0 for

## ALF-UA industrial Wifi-router

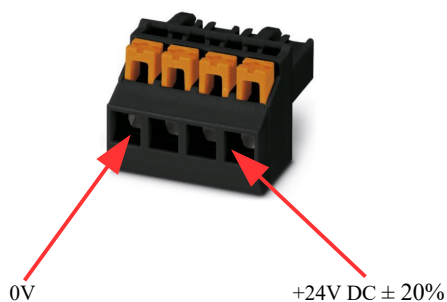
### Connectors:



### Power connection:

Voltage: 24 V DC  $\pm$  20%  
 Power: 1,2W

### Pinning voltage connector:



### Initial start-up:

- ALF-UA creates a WLAN network with an SSID „ALF-UA“ 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
- Open with browser the webserver with IP: <http://192.168.2.1>

User name: admin  
Password: admin

### Home page :

The screenshot shows the 'Overview' page of the ALF-UA interface. It includes a sidebar with icons for STATUS, Overview, and a settings icon. The main content area is divided into two sections: 'Service' and 'WAN / Internet' / 'LAN / Local Network'. The 'Service' section lists device details: Device Name (ALF-UA), Serialnumber (-), Version (FW: 0.0.0.0), Network Mode (AP Router), CPU Load Averages (25.27%), and Memory Usage (27064 KB / 61440 KB). The 'WAN / Internet' section shows IP Address and Subnet Mask. The 'LAN / Local Network' section shows IP Address (192.168.2.1) and Subnet Mask (255.255.255.0).

### Menu network :

4 operating modes are possible with the ALF-UA :

- AP Router is an access point with LAN and WAN port (separate subnets)
- AP Bridge is ACCESS-Point with 2 LAN sockets (WIFI and LAN sockets bridged)
- Client Router is WIFI client with LAN and WAN port (separate subnets)
- Client Bridge is WIFI client with 2 LAN sockets (WIFI and LAN sockets bridged)

==> Access point opens a WIFI network, client connects to an existing WIFI network .

All 4 modes can be parameterized and saved in parallel, you determine which mode is active :

The screenshot shows the 'NETWORK' configuration page for the 'AP Router' mode. The left sidebar has icons for AP Router, AP Bridge, Client Router, and Client Bridge. The main content area is divided into two sections: 'WAN / Internet' and 'LAN / Local Network'. The 'WAN / Internet' section shows 'Connection Type' (Static, DHCP, PPPoE) with 'DHCP' selected, and 'Host Name' (ALF-UA). The 'LAN / Local Network' section shows 'Router IP' (192.168.2.1), 'Subnet Mask' (255.255.255.0), and 'Spanning Tree' (checked). Below these are 'DHCP Settings' (Enabled, DHCP Server) and 'WLAN Access Point' (Enabled, Access Point SSID: ALF-UA, Broadcast SSID: checked). The 'Encryption Settings' section shows 'WPA2 PSK' selected. The 'Routing to LAN' and 'Routing to WAN' checkboxes are at the bottom.

You need the following modes for the following situations :

Situation	AP Router	AP Bridge	Client Router	Client Bridge	Peculiarity
With a laptop around the S5/7-PLC + ALF-UA	X	---	---	---	PLC via S5/7-LAN to LAN port
With a laptop around the S5/7-PLC + ALF-UA	---	X	---	---	PLC via S5/7-LAN to LAN port Another LAN participant on the WAN port
Bring the S5/7-PLC or LAN device into the existing WIFI network	---	---	X	---	PLC via S5/7-LAN / LAN-device on LAN port
Bring the S5/7-PLC or LAN device into the existing WIFI network	---	---	---	X	PLC via S5/7-LAN / LAN-device on LAN port Another LAN participant on the WAN port
Extend LAN route Attention: 2 devices required		X		X	One device as AP Bridge and the second as Client Bridge

After selecting the configuration, save it in the device and after restarting the device, it can be used in the selected operating mode.

You can find more about the operating modes in the device manual on the product page of the ALF-UA .

<https://www.tpa-partner.de>

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### Menutree Website:

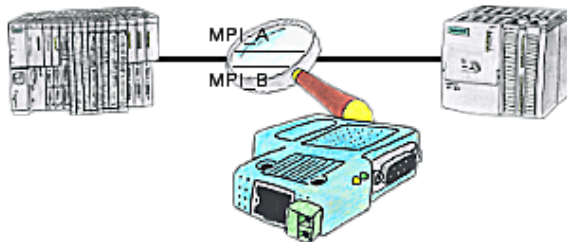
- + Products / docu / downloads
- + Hardware
  - + Programming devices
  - + S7
    - + WLAN/WIFI
    - + Profinet PLCs / Ethernet-CPs
    - + ALF-Devices
    - + ALF-UA

### QR-Code Website:



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

Malfunctions on the Bus although everything is (apparently) connected properly?



The S7-LAN can also be used for controlling/checking the MPI/Profibus. It will be plugged on the Bus so that you can take a look at the status of the busses via software on PC, for example the numbers of parity errors.