



# LANCOM IAP-822 Interface Overview System Installation Guide

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# LANCOM

## SYSTEMS

[lancom-systems.com](http://lancom-systems.com)

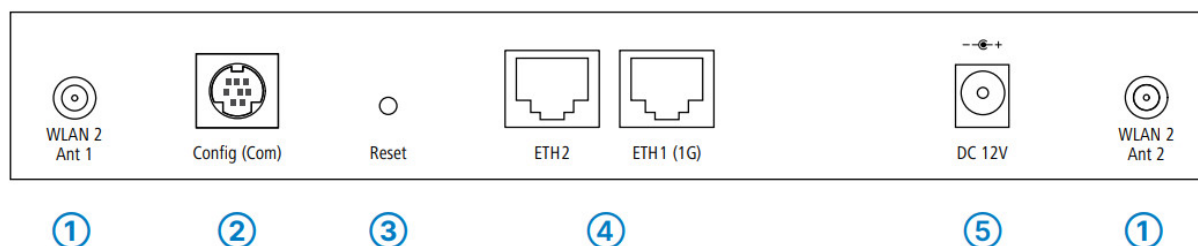
Quick Installation Guide  
LANCOM IAP-822



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## Interface overview of the LANCOM IAP-822



1. WLAN antenna connectors
2. Serial configuration interface
3. Reset button
4. ETH1 (PoE), ETH2 interfaces
5. Power supply connection socket

## Technical data (excerpt)

Hardware	
Power supply	12 V DC, external power adapter For an overview of the power supplies compatible with your device, see <a href="http://www.lancom-systems.com/kb/power-supplies">www.lancom-systems.com/kb/power-supplies</a> . Power-over-Ethernet compliant to IEEE 802.3af
Housing	Robust metal housing, IP 50 protection class, for wall, mast and top-hat rail mounting, 210 mm x 152 mm x 33 mm (L x W x D), weight approx. 1.1kg (without mounting materials)
Package contents	
Cable	Ethernet cable, 3 m (not included with bulk item)
Antennas	Four 3 dBi dipole dual-band antennas
Power adapter	External power adapter (not included with bulk item)

## Initial start-up

### Establishing the required connections for device configuration

→ Always observe the adjacent safety instructions and notes.

Select the description a), b), or c) applicable to your present constellation for the power supply of the device

a) Power supply via external power supply unit	b) PoE power supply via PoE network device	c) PoE power supply via separate PoE injector
Establish a power supply using the external power supply unit.	Connect a network cable to the Ethernet port marked PoE on the device and a free PoE active network socket on your local network (e.g. on a PoE-capable switch).	Connect a network cable to the Ethernet port marked PoE on the device and the output of the PoE injector. Then connect another network cable to the input of the PoE injector and a free NON-PoE-active network outlet of your local network. Connect the PoE injector to the power supply.

### **Always observe the documentation of the PoE injector or PoE switch!**

→ Use suitable cables to connect other required device interfaces to other components and, in the case of devices with Wi-Fi interfaces, connect any antennas supplied.

→ Select one of the following configuration methods a) or b).

#### **a) Configuration via the local network (recommended)**

Note that an active DHCP server is required in the network connected to the device.

Connect the computer intended for configuration (e.g. notebook) either directly via Ethernet cable to one of the ETH or LAN interfaces of the device, or to a switch in the same network.

The possibly existing interface CONFIG or COM is not suitable for configuration via the network!

#### **b) Configuration via the serial interface of a connected computer (if available)**

You need a serial configuration cable which is connected to the possibly existing CONFIG or COM interface of the device. This socket is exclusively intended for connection to a serial interface!

#### **Options for initial start-up of the unconfigured device**

##### **→ Option 1: via web browser (WEBconfig, not for serially connected devices)**

Configuration via web browser is an easy and fast variant, since no additional software is required on the computer used for configuration.

**Note:** If a certificate warning appears in your browser when trying to connect to your device, there is a button or link on the displayed browser page to connect to the device anyway (depending on the browser, usually under Advanced).

In the following, select the description a) or b) that applies to your setup for configuring the device.

#### **a) Configuration in a network without active DHCP server**

For configuration via TCP/IP, the IP address of the device in the local network (LAN) is required. After power-on, an unconfigured LANCOM device first checks whether a DHCP server is active in the LAN.

The device can be accessed from any computer with the Auto DHCP function enabled using a web browser under the IP address 172.23.56.254.

The given IP address can be modified at any time.

#### **b) Configuration in a network with active DHCP server**

In this procedure, the DNS server used in your network must be able to resolve the host name reported by the device via DHCP. When using a LANCOM device as a DHCP and DNS server, this is the default case.

You can reach your device via <https://lan.com-XXYYZZ>. Replace XXYYZZ with the last six digits of the MAC address of your device, which you can find on the enclosed document LANCOM Management Cloud or on the nameplate of the device. If necessary, append the domain name of your local network (e.g. .intern).

- When the computer is connected to an unconfigured LANCOM device, WEBconfig automatically starts the setup wizard Basic settings.
- After the setup wizard has been run through, the initial commissioning of the device is complete.
- If necessary, make further configurations using the setup wizards available for selection.

→ **Option 2: via the Windows software LANconfig ([www.lancom-systems.com/downloads](http://www.lancom-systems.com/downloads))**

- Please wait until the booting process of the device is completed before starting LANconfig.
- Open the device configuration by double-clicking on the unconfigured device in the device list.  
Confirm the security notice and first configure a device password under Management -> Admin -> Device configuration.
- Under Wireless-LAN -> General -> Logical WLAN Settings, configure an SSID and associated password (PSK).  
The initial commissioning of the device is now complete.

#### → **Option 3: via the LANCOM Management Cloud (LMC)**

- Special requirements are necessary to configure the device via the LMC. Information on this topic can be found at [www.lancom-systems.com/lmc-access](http://www.lancom-systems.com/lmc-access).

## **General safety instructions**

- Under no circumstances should the device housing be opened and the device repaired without authorization. Any device with a case that has been opened is excluded from the warranty.
- If antennas are available, they may only be installed or replaced when the device is switched off. Mounting or demounting antennas while the device is powered on may cause the destruction of the radio module.
- Mounting, installation, and commissioning of the device may only be carried out by qualified personnel.

## **Safety instructions and intended use**

In order to avoid harming yourself, third parties or your equipment when installing your LANCOM device, please observe the following safety instructions. Operate the device only as described in the corresponding documentation. Pay particular attention to all warnings and safety instructions. Use only those third-party devices and components that are recommended or approved by LANCOM Systems.

Before commissioning the device, be sure to study the corresponding Hardware Quick Reference which can be downloaded from the LANCOM website [www.lancom-systems.com/downloads](http://www.lancom-systems.com/downloads).

Any warranty and liability claims against LANCOM Systems are excluded in the event of any use other than the intended use described below!

### **Environment**

LANCOM devices should only be operated when the following environmental requirements are met:

- Ensure that you comply with the temperature and humidity ranges specified in the Quick Reference Guide for the LANCOM device.
- Do not expose the device to direct sunlight.
- Ensure that there is adequate air circulation and do not obstruct the ventilation slots.
- Do not cover devices or stack them on top of one another
- The device must be mounted so that it is freely accessible (for example, it should be accessible without the use of technical aids such as elevating platforms); a permanent installation (e. g. under plaster) is not permitted.
- Only outdoor equipment intended for this purpose is to be operated outdoors.

### **Power supply**

Before start-up, the following points must be observed, as improper use can lead to personal injury and damage to property, as well as voiding the warranty:

- The mains plug of the device must be freely accessible.
- Operate the device only with a professionally installed power supply at a nearby and at all times freely accessible socket.
- Only use the enclosed power supply / IEC cable or the one listed in the hardware quick reference.
- A high touch current is possible for devices with metal housing and grounding screw! Before connecting the power supply, connect the grounding screw to a suitable ground potential.
- Some devices support power supply via an Ethernet cable (Power over Ethernet – PoE). Please refer to the corresponding notes in the hardware quick reference of the device.
- Never operate damaged components.

- Only switch on the device when the housing is closed.
- The device must not be installed during thunderstorms and should be disconnected from the power supply during thunderstorms.
- In case of emergency (e. g. damage, ingress of liquids or objects, for example through the ventilation slots), disconnect the power supply immediately.

### Applications

- The devices may only be used in accordance with the relevant national regulations and under consideration of the legal situation applicable there.
- The devices must not be used for the actuation, control, and data transmission of machinery that, in case of malfunction or failure, may present a danger to life and limb, nor for the operation of critical infrastructures.
- The devices with their respective software are not designed, intended or certified for use in: the operation of weapons, weapons systems, nuclear facilities, mass transportation, autonomous vehicles, aircraft, life support computers or equipment (including resuscitators and surgical implants), pollution control, hazardous materials management, or other hazardous applications where failure of the device or software could lead to a situation in which personal injury or death could result. The customer is aware that the use of the devices or software in such applications is entirely at the customer's risk.

## Regulatory Notice

### Regulatory compliance for devices with radio or Wi-Fi interfaces

This LANCOM device is subject to governmental regulation. The user is responsible for ensuring that this device operates in accordance with local regulatory guidelines, specifically for compliance with potential channel restrictions.

### Channel restrictions in Wi-Fi operation for devices with Wi-Fi interfaces

When operating this radio equipment in EU countries the frequency range 5,150 – 5,350 MHz (Wi-Fi channels 36 – 64) as well as the frequency range 5,945 – 6,425 MHz (Wi-Fi channels 1 – 93) is limited to indoor use.

Technology	Frequency range (MHz)	Max. output power (dBm EIRP)
Wi-Fi	2,400 – 2,483.5	20
	5,150 – 5,350	20
	5,470 – 5,725	30
	5,945 – 6,425	23
SRD / BLE / SRD / ESL (ePaper)	2,400 – 2,483.5	10
SRD / SubGHz-ESL	869.2 – 869.25	14 / 25 mW

## Declarations of Conformity

You will find all the Declarations of Conformity concerning our product portfolio under [www.lancom-systems.com/doc](http://www.lancom-systems.com/doc).

These documents contain all the tested standards and required guidelines in the area of EMC – SAFETY – RF, as well as the proof of the guidelines concerning RoHS & REACH.

### CE Simplified Declaration of Conformity

Hereby, LANCOM Systems GmbH | Adenauerstrasse 20/B2 | D-52146 Wuersele, declares that this device is in compliance with Directives 2014/30/EU, 2014/35/EU, 2014/53/EU, 2011/65/EU, and Regulation (EC) No. 1907/2006. The full text of the EU Declaration of Conformity is available at the following Internet address: [www.lancom-systems.com/doc](http://www.lancom-systems.com/doc)

### Documentation / Firmware

Basically, current versions of the LCOS

firmware, drivers, tools and documentation for all LANCOM and AirLancer products are available for download free of charge from our website.

Detailed documentation for your device

can be found in the download portal of tLANCOM website: [www.lancom-systems.com/downloads](http://www.lancom-systems.com/downloads)

You will also find explanations of all the functions of your LANCOM device in the LCOS Reference Manual:

[www.lancom-systems.de/docs/LCOS/Refmanual/EN/](http://www.lancom-systems.de/docs/LCOS/Refmanual/EN/)

## Service & Support

The LANCOM Knowledge Base — with over 2,500 articles — is available to you at any time via the LANCOM website: [www.lancom-systems.com/knowledgebase](http://www.lancom-systems.com/knowledgebase)

If you have any further questions, please submit your request via our Service & Support portal: [www.lancom-systems.com/service-support](http://www.lancom-systems.com/service-support)

Online support is always free of charge at LANCOM. Our experts get back to you as soon as possible.

All information on your device



<https://www.lancom-systems.com/products/wireless-lan/industrial-access-points/lancom-iap-822>

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## Documents / Resources

	<a href="#">LANCOM IAP-822 Interface Overview System</a> [pdf] Installation Guide IAP-822 Interface Overview System, IAP-822, Interface Overview System, Overview System, System
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## References

- [L Business network solutions "engineered in Germany": LANCOM Systems GmbH](#)
- [L DoC - LANCOM Systems GmbH](#)
- [L Confluence Mobile - LANCOM Wissensdatenbank](#)
- [L Confluence Mobile - LANCOM Wissensdatenbank](#)
- [L lancom-systems.com/lmc-access](#)
- [L Service & Support: LANCOM Systems GmbH](#)
- [L lancom-systems.com/lmc-access](#)
- [L LCOS 10.80 Reference Manual](#)
- [L User Manual](#)