

LANCOM Systems IAP-822 WiFi Access Point User Guide

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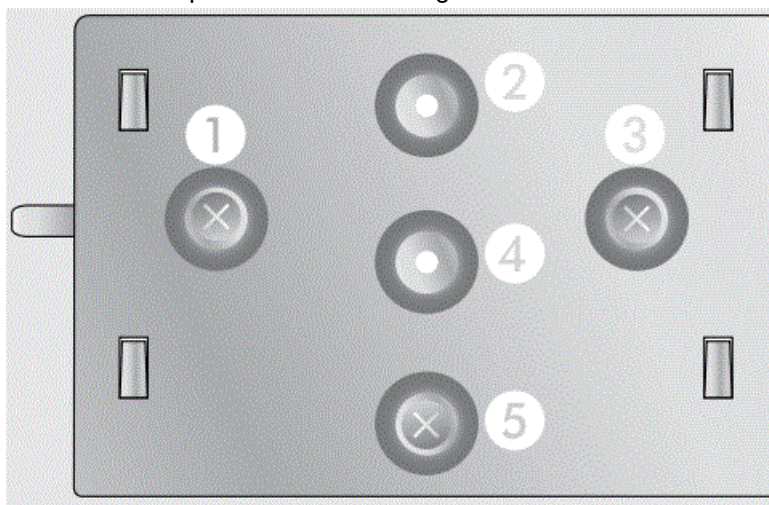
LANCOM

LANCOM Systems IAP-822 WiFi Access Point



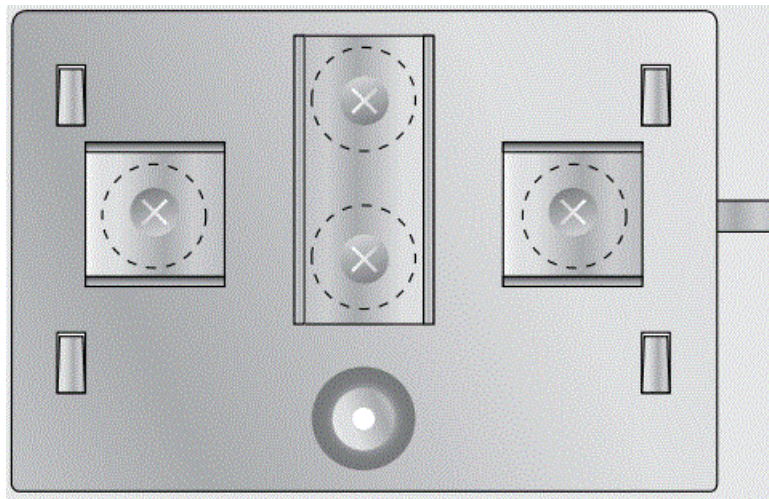
Wall mounting

Use the supplied screws to fix the back plate to the wall using the holes .6 and



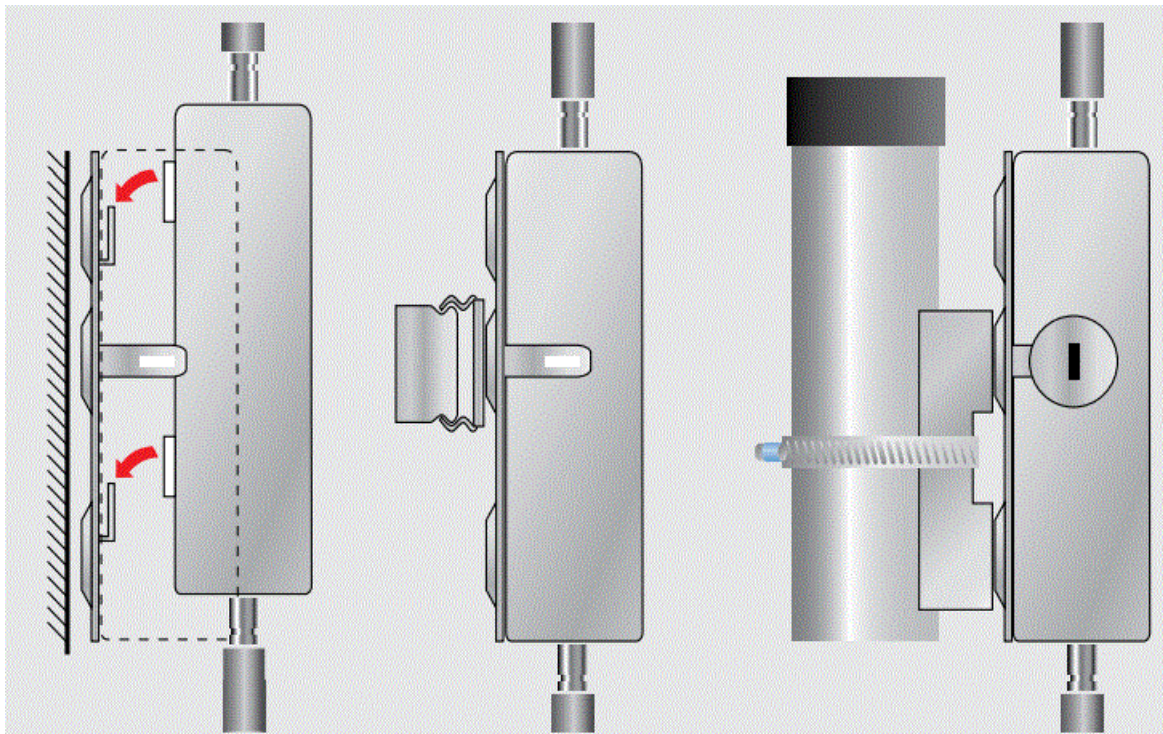
Top-hat rail mounting

Using the supplied screws, attach the two top-hat rail clips to the holes 1 and 3. Do not yet tighten the screws completely; leave some play to adjust the alignment of the clips.



Pole mounting

For mast mounting, use the supplied screws to fix the clamp profile through the holes 2 and.



Top-hat rail mounting only

Snap the two top-hat rail clips onto the required position on the top-hat rail.

Mast mounting only

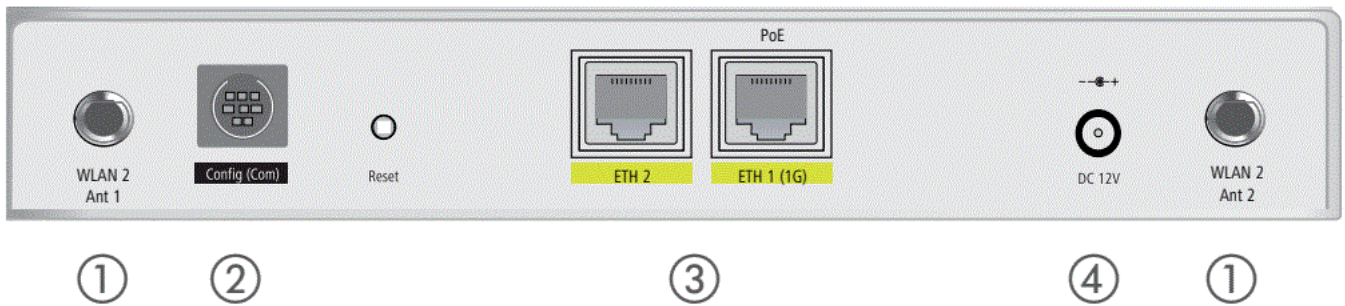
Insert the supplied worm-drive clip (or one suitable for your pole diameter) around the mounting clamp profile. Finally, adjust the worm-drive clip to fix the device in the desired position on the mast.

Optional: Secure with a Kensington lock

The left side of the device features a slot for a Kensington lock. The Kensington lock securely fixes the device to the mounting plate. With the IAP mount (item no. 61647) available separately

PANEL

REAR PANEL



1. WLAN antennas

- Screw the supplied WLAN antennas onto the terminals WLAN 1 Ant 1, WLAN 1 Ant 2, WLAN 2 Ant 1, and WLAN 2 Ant 2. Depending on the antenna ports, you may have to configure the 'Antenna grouping' parameter.



2. Serial configuration interface

- Configuring the device via the serial interface requires a serial configuration cable (available as an accessory)



3. TP Ethernet interfaces

- Use the Ethernet cable to connect one of the interfaces ETH 1 or ETH 2 to other network components. Alternatively, you can connect one of the ETH interfaces to the PoE Injector's 'Power Out' connector.



4. Power

- When connecting the cable to the device, turn the bayonet connector 90° clockwise until it clicks into place. Use only the supplied power adapter



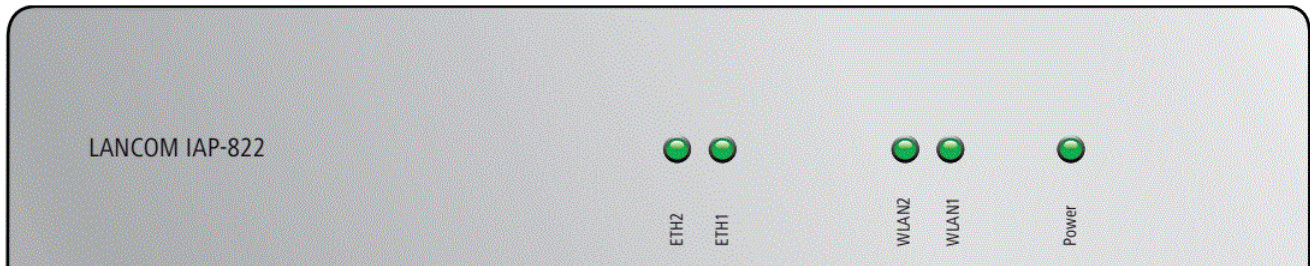
INFORMATION

- If you operate separately purchased antennas, please ensure that you do not exceed the maximum allowed transmission power for your system. The system operator is responsible for adhering to the threshold values. For information about calculating the correct antenna setup, please refer to www.lancom-systems.com
- If you intend to operate both WLAN modules in the same frequency band, we recommend that you
- Connect the antennas Via extension cables. In this way they can be positioned further away from one another, which reduces the effects of interference.
- Antennas are only to be attached or exchanged when the device is switched off. Mounting or de-mounting

antennas, while the device is switched on, may cause the destruction of the WLAN module!

- Before initial startup, please make sure to take notice of the information regarding the intended use under www.lancom-systems.com/safety
- Operate the device only with a professionally installed power supply at a nearby power socket that is freely accessible at all times.

LANCOM IAP-822



① ETH1, ETH2

Off	No networking device attached
Green, permanently on	Connection to network device operational, no data traffic
Green, flickering	Data traffic

② WLAN1, WLAN2

Off	No WLAN network defined or WLAN module deactivated. The WLAN module is not transmitting beacons.
Green	At least one WLAN network is defined and WLAN module activated. The WLAN module is transmitting beacons.
Green, inverse flashing	Number of flashes = number of connected WLAN stations and P2P wireless connections, followed by a pause (default). Alternatively the frequency of the flashing can indicate signal strength over the defined P2P link or the signal strength between the access point and the device operating in client mode.
Green, blinking	DFS scanning or other scan procedure
Red, blinking	Hardware error in Wi-Fi module

①

②

③

③ Power

Off	Device switched off
Green, on (constant)	Device operational
Green, blinking	Configuration password not set. Without a configuration password the configuration data in the device is unprotected.
Red, blinking	Charge or time limit reached
1x green inverse blinking*	Connection to the LMC active, pairing OK, device not claimed
2x green inverse blinking*	Pairing error, resp. LMC activation code not available
3x green inverse blinking*	LMC not accessible, resp. communication error

Hardware

Power supply	12 V DC, external power adapter (230V) with bayonet connector to secure against disconnection; Via Power-over-Ethernet compliant to IEEE 802.3af
Power consumption	Max. 12 W via 12 V power supply, Max. 12.95 W via PoE
Environment	Temperature range -20 to +50 °C; humidity 0-95 %, non-condensing
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. 1.1 kg (without mounting materials)

WLAN

Frequency band	2.4 GHz and 5 GHz, 2,400-2,483.5 MHz (ISM) or 5,150-5,725 MHz (restrictions vary between countries)
Radio channels 2.4 GHz	Up to 13 channels, max. 3 non-overlapping
Radio channels 5 GHz	Up to 19 non-overlapping channels (channels available vary according to country regulations; DFS for automatic dynamic channel selection required)

Interfaces

ETH1	10 / 100 / 1000 Mbps auto-sensing, PoE as per IEEE 802.3af
ETH2	10 / 100 Mbps, autosensing
External antenna connectors	Four reverse SMA connectors
Config (Com)	Serial configuration interface / COM port (10-pin connector): 19,200 - 115,000 baud

Declarations of conformity

Hereby, LANCOM Systems GmbH | Adenauerstrasse 20/B2 | D-52146 Wuerselen, declares that this device is in compliance with Directives 2014/30/EU, 2014/53/EU, 2014/35/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

Package content

Documentation	Quick Reference Guide (DE/EN), Quick Install Guide (DE/EN), Service & Support Guide (DE/EN)
Cable	Ethernet cable, 3 m (not included with bulk items)
Antennas	Four 3 dBi dipole dual-band antennas
Power adapter (Not included with bulk item)	External power supply adapter (230V), 12 V / 1.5 A DC/S, barrel connector 2.1 / 5.5 mm bayonet, temperature range -5 to 45°C, LANCOM item no. 110723 (EU), LANCOM item no. 110829 (UK)

Documents / Resources

	LANCOM Systems IAP-822 WiFi Access Point [pdf] User Guide IAP-822, WiFi Access Point, Access Point, IAP-822, WiFi Access
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References

- [L Business network solutions "made in Germany": LANCOM Systems GmbH](#)
- [L DoC - LANCOM Systems GmbH](#)
- [L lancom-systems.com/safety](http://lancom-systems.com/safety)

