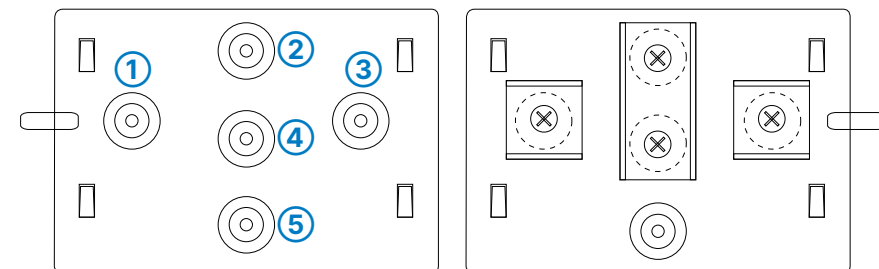
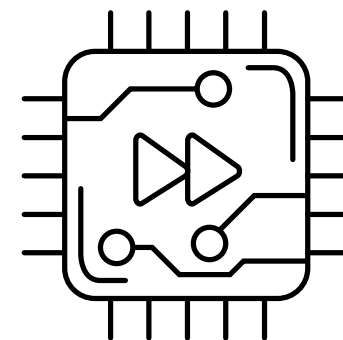


# Hardware Quick Reference

## LANCOM IAP-822



### Wall mounting

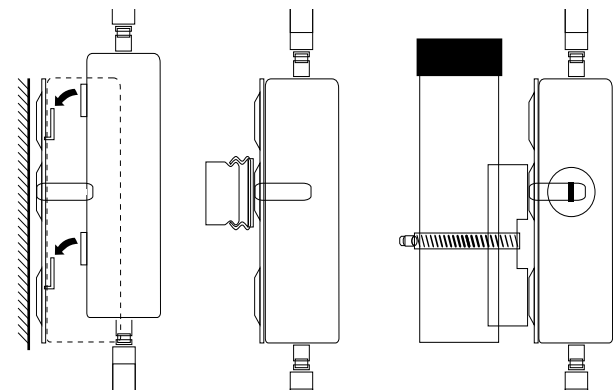
Use the supplied screws to fix the back plate to the wall using the holes ①, ③, and ⑤.

### Top-hat rail mounting

(with the separately available IAP Mount, item no. 61647) 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 space to adjust the alignment of the clips. Snap the two top-hat rail clips onto the required position on the top-hat rail.

### Pole mounting

(with the separately available IAP Mount, item no. 61647) For pole mounting, use the supplied screws to fix the clamp profile through the holes ② and ④. Place the enclosed mounting clamp or a mounting clamp suitable for your pole diameter around the clamping profile. Then mount the device with the mounting clamp at the desired position on the pole.



Snap the housing of the device with the four rear openings into the tabs of the base plate.

### 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.

**Before initial startup, please make sure to take notice of the information regarding the intended use in the enclosed installation guide!**

**Operate the device only with a professionally installed power supply at a nearby power socket that is freely accessible at all times.**

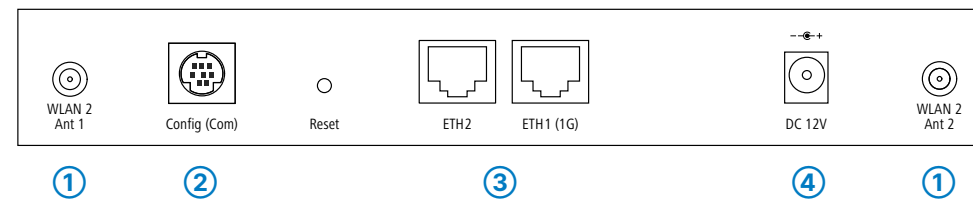
**The power plug of the device must be freely accessible.**

**Please note that support service for third-party accessories is excluded.**



### Please observe the following when setting up the device

- Do not rest any objects on top of the device.
- Keep all ventilation slots of the device clear of obstruction.



### ① WLAN antenna connectors

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.

**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.**  
**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 from interference.**

**Antennas are only to be attached or exchanged when the device is switched off. Mounting or demounting antennas while the device is switched on may cause the destruction of the WLAN module!**

### ② Serial configuration interface

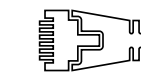
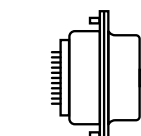
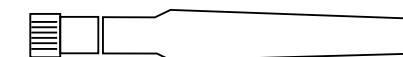
Configuring the device via the serial interface requires a serial configuration cable (available as an accessory).

### 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 a PoE injector's 'Power Out' connector.

### ④ Power supply connection socket

In case the power supply of the device should not be done via the PoE interface, please use only the supplied external power supply adapter.



## Mounting & connecting



### ① ETH1, ETH2

Off	No networking device attached
Green, permanently	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

### 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

\*) The additional power LED statuses are displayed in 5-seconds rotation if the device is configured to be managed by the LANCOM Management Cloud.

This product contains separate open-source software components which are subject to their own licenses, in particular the General Public License (GPL). The license information for the device firmware (LCOS) is available on the device's WEBconfig interface under "Extras > License information". If the respective license demands, the source files for the corresponding software components will be made available on a download server upon request.

<b>Hardware</b>	
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 consumption	Power-over-Ethernet compliant to IEEE 802.3af 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

### Package content

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 adapter

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](http://www.lancom-systems.com/doc)