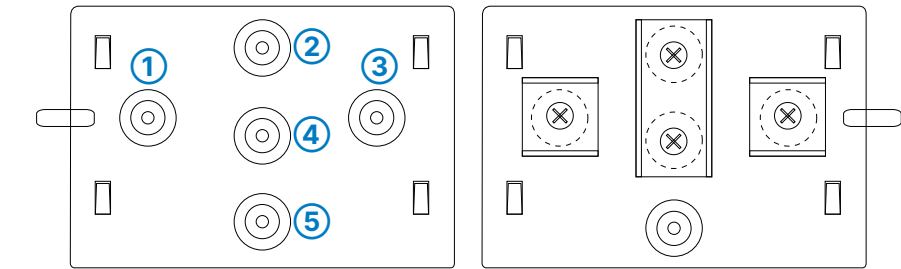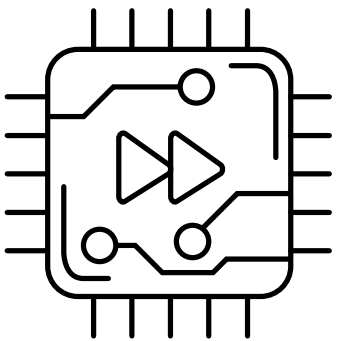# Hardware Quick Reference

LANCOM IAP-821
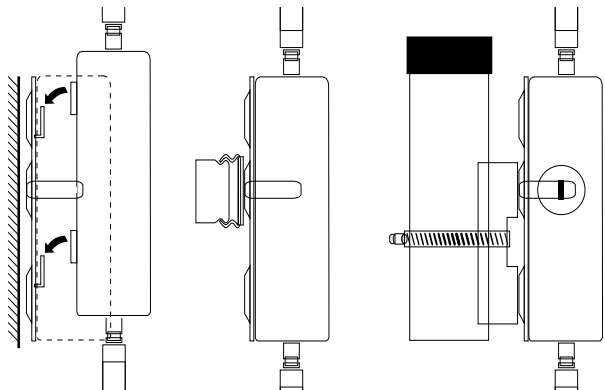

Wall mounting
Use the supplied screws to fix the back plate to the wall using the holes ①, ③, and ⑤.

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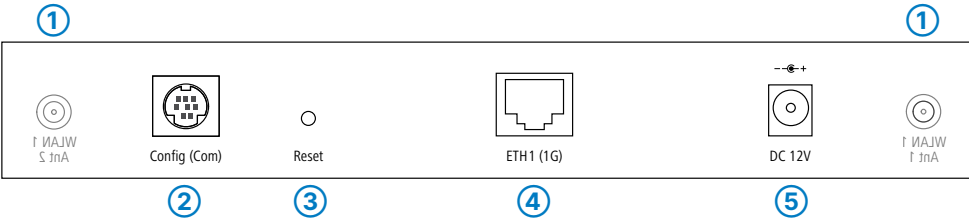
Before initial startup, please make sure to take notice of the information regarding the intended use in the enclosed installation guide!

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

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① **Wi-Fi antenna connectors (rear panel)**
Screw the supplied WLAN antennas onto the terminals WLAN 1 Ant 1 and WLAN 1 Ant 2. Depending on the use of the antenna ports, you may have to configure the 'Antenna grouping' parameter.
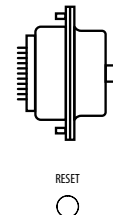
If you operate separately purchased antennas, please ensure that you do not exceed the maximum allowed transmission power for your system. The system operator is responsible for adhering to the threshold values.

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).
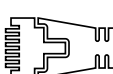
③ **Reset button**
Pressed up to 5 seconds: device restart

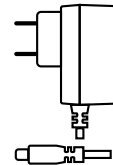Pressed until first flashing up of all LEDs: configuration reset and device restart

④ **TP Ethernet interface**
Use the Ethernet cable to connect the interface ETH1 (1G) to other network components. Alternatively, you can connect the ETH1 (1G) interface to a PoE injector's 'Power Out' connector.
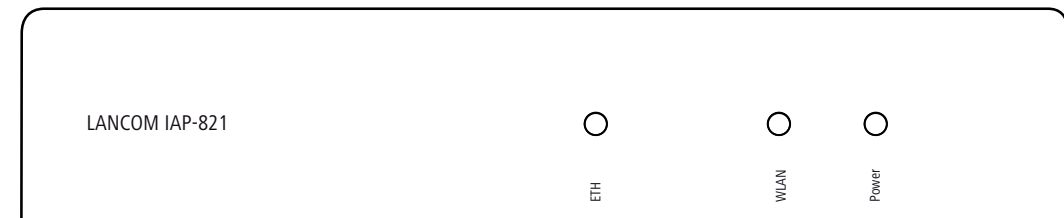
⑤ **Power**
Use only the supplied power adapter.

Please observe the following when setting up the device
→ The power plug of the device must be freely accessible.
→ Do not rest any objects on top of the device
→ Keep all ventilation slots on the side of the device clear of obstruction
→ Please note that support service for third-party accessories is excluded.

Mounting & connecting

① ETH

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

② WLAN

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.

LED description & technical details

Hardware

Power supply	12 V DC, external power adapter
	Via Power-over-Ethernet compliant to IEEE 802.3af
Power consumption	Max. 10 W via 12 V power supply, max. 11 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 kg (without mounting materials)

Wi-Fi

Frequency band	2.4 GHz or 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
External antenna connectors	2 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	2 3 dBi dipole dual-band antennas
Power adapter (Not included with bulk item)	External power supply adapter

LANCOM IAP-821

ETH   WLAN   Power

Cloud-ready