LANCOM IAP-821
Quick Reference Guide

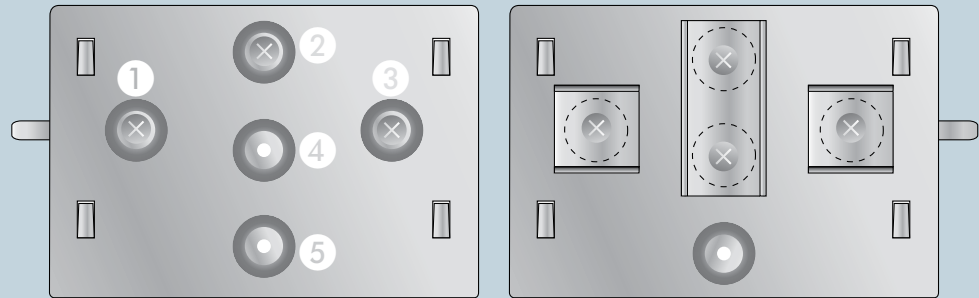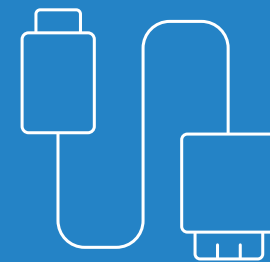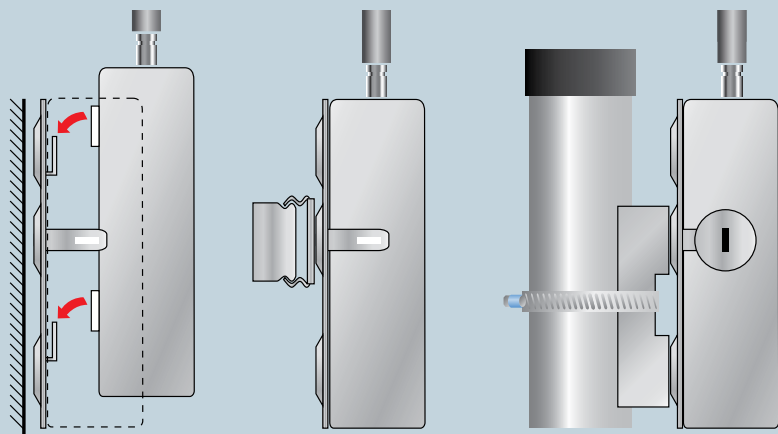**LANCOM**
Systems

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

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 4.

Align the four openings on the rear of the device housing with the clips on the base plate and snap-fit the device.

Top-hat rail mounting only
Snap the two top-hat rail clips onto the required position on the top-hat rail.
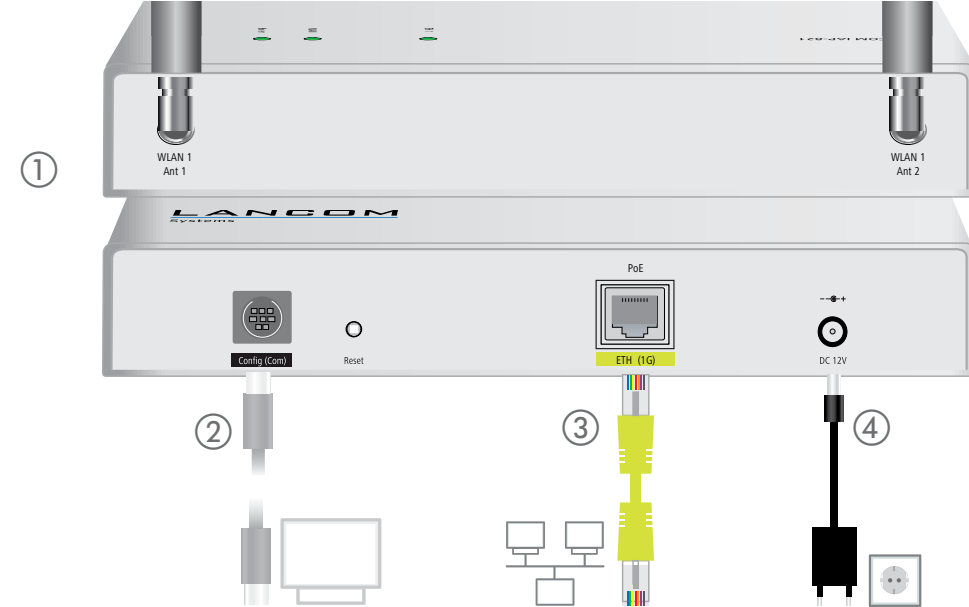
Mast mounting only
Insert the supplied worm-drive clip (or one suitable for your pole diameter) around the mounting clamp profile. Finally, adjust the worm-drive clip to fix the device in the desired position on the mast.

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

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① Optional: WLAN antennas
Screw the WLAN antennas supplied to the connectors Ant1 and Ant2. Depending on the antenna ports, you may have to configure the 'Antenna grouping' parameter.
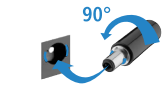
② Serial interface
Configuring the device via the serial interface requires a serial configuration cable (available as an accessory).

③ Ethernet interface
Use the Ethernet cable to connect the interface to your PC or a LAN switch. Alternatively, you can connect the ETH interface to the PoE Injector's 'Power Out' connector.

④ Power cord
When connecting the cable to the device, turn the bayonet connector 90° clockwise until it clicks into place.
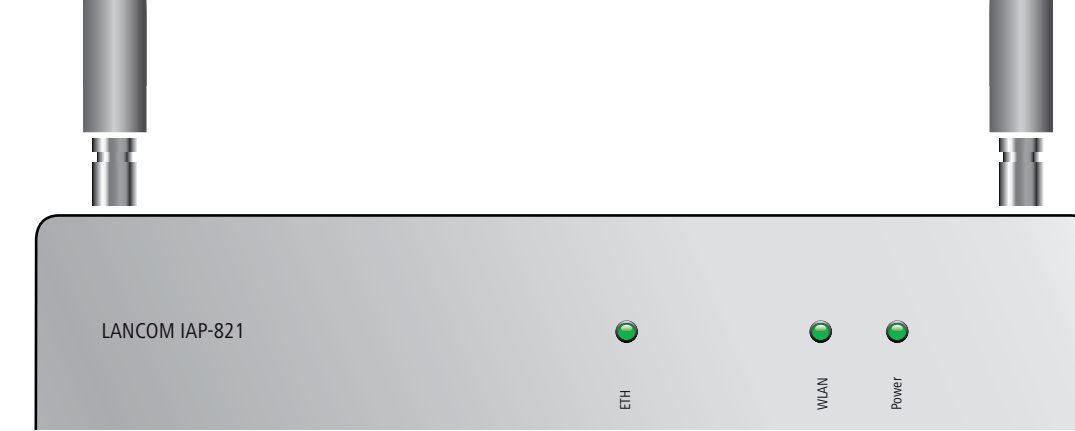
Use only the supplied power adapter.

⚠ 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.eu.

⚡ Antennas are only to be attached or changed when the device is switched off. Mounting or demounting antennas with the device switched on could destroy the WLAN module!

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① ETH

Off	No networking device attached
Green, on (constant)	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.

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

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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. power consumption: 10 W @ 12 V and 11 W @ PoE
Environment	Temperature range -20 – +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 (length/width/depth), weighs approx. 1 kg (without mounting materials)

WLAN

Frequency band	2.4 GHz or 5 GHz, 2400-2483.5 MHz (ISM) or 5150-5725 MHz (restrictions vary between countries)
Radio channels 2.4 GHz	Up to 13 channels, max. 3 non-overlapping (2.4-GHz band)
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

1) LAN port	10/100/1000 Mbps auto-sensing, PoE as per IEEE 802.3af
External antenna connectors	Two reverse SMA connectors.
Serial interface	Serial configuration interface / COM port (10-pin connector): 19,200 - 115,000 baud

Declarations of conformity

The Declaration of Conformity is available from the product page on our website www.lancom.eu

Package content

Manual	Hardware Quick Reference (DE/EN)
DVD	CD/DVD with firmware, management software (LANconfig, LANmonitor, LANCAPI) and documentation
Cable	Ethernet cable, 3m (not included with bulk items)
Antennas	Two 3-dBi dipole dual-band antennas
Power adapter**	External power supply adapter (230V), NEST 12 V/1.5 A DC/S, barrel connector 2.1/5.5 mm bayonet, temperature range -5 to 45°C, LANCOM item no. 11723 (EU), LANCOM item no. 110829 (UK)

License information for the device firmware (LCOS) is available in the file LCOS-Licenses.txt on the data medium supplied.

** Not included with bulk items