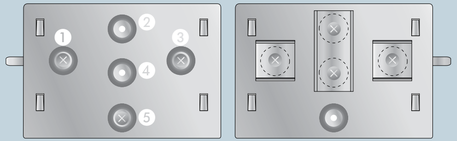
SECURE. NETWORKS.

LANCOM IAP-822
Quick Reference Guide

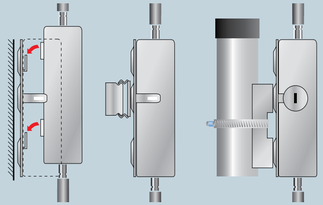
LANCOM
Systems



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).



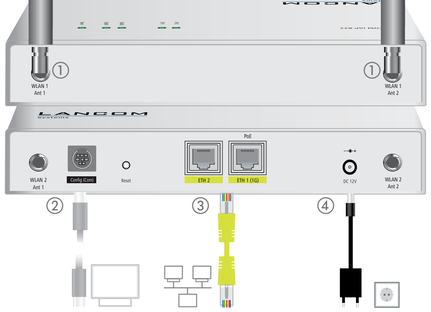
Align the four openings on the rear of the device housing with the clips on the base plate and snap-fit the device.

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



① **WLAN antennas**
Screw the supplied WLAN antennas onto the terminals WLAN1 Ant 1, WLAN1 Ant 2, WLAN2 Ant 1, and WLAN2 Ant 2. 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 one of the interfaces ETH1 or ETH2 to your PC or a LAN switch. Alternatively, you can connect one of the ETH interfaces 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-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 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!

MOUNTING AND CONNECTING THE DEVICE

② ETH1, ETH2	
Off	No networking device attached
Green, on (constant)	Connection to network device operational, no data traffic
Green, flickering	Data traffic

① 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

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

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: 12 W @ 12 V and 12.95 W @ 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 (length/width/depth), weighs approx. 1.1 kg (without mounting materials)
WLAN	
Frequency band	2.4 GHz and 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	
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	
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	Data medium with management software (LANconfig, LANmonitor, WLANmonitor) and LCOS documentation
Cable	Ethernet cable, 3m (not included with bulk items)
Antennas	Four 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. 110723 (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

TECHNICAL DETAILS