

LANCOM IAP-321

Hardware Quick Reference





Wall mounting

wall using the holes (1), (5) and (3)



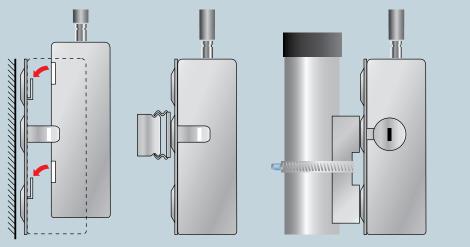
Top-hat rail mounting

Use the supplied screws to fix the back plate to the

Fix the two top-hat rail clips with the supplied screws through the holes (1) and (3). Leave the screws slightly loose at first so that you can line up the clips properly.

Mast 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

Top-hat rail mounting only

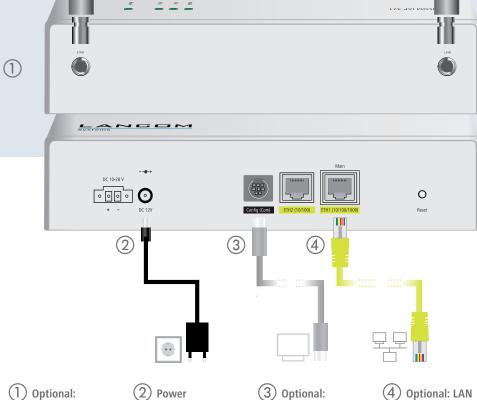
Snap the two top-hat rail clips onto the required position on the top-hat rail.

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.



(1) Optional: WLAN antennas

Screw the WLAN antennas supplied to the connectors Ant1 and Ant2. Depending on the antenna ports you use, you may have to configure the 'Antenna grouping' parameter.

When connecting the Serial configuration cable to the device, turn the bayonet connector 90° clockwise until it

clicks into place.

Use only the supplied

the two free pins of the

a voltage source in the

range 10 - 28 V DC.

Combicon connector with

threshold values. For information about calculating the correct antenna setup, please refer to

ing antennas with the device switched on could destroy the WLAN module!

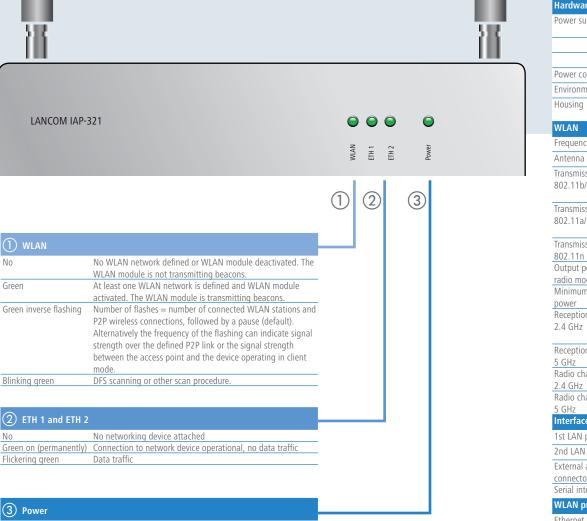
Antennas are only to be attached or changed when the device is switched off. Mounting or demount

power adapter. Alternatively, connect (available as accessory).

Use the cable with the green-colored connectors Connect the device to a PC to connect one of the inwith a configuration cable terfaces 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.





3 Fower	
No	Device switched off
Green on (permanently)	Device operational
Blinking green	Configuration password not set. Without a configuration password, the configuration data in the device is unprotected.
Blinking red	Charge or time limit reached

License information for the device firmware (LCOS) is available in the file LCOS-Licenses.txt on the data medium supplied. If you operate separately purchased antennas, please ensure that you do not exceed the maximum allowed transmission power for your system. The system control of the system and the system are that you do not exceed the maximum

Up to 17 dBi at 5 GHz on the integrated dual polarization antenna 54 Mbps as per IEEE 802.11g (fallback to 48, 36, 24, 18, 12, 9, 6 Mbps, automatic rate selection) compatible to IEEE 802.11b (11, 5,5, 2, 1 Mbps, automatic rate selection), 802.11 b/g compatibility 54 Mbps as per IEEE 802.11a/h (fallback to 48, 36, 24, 18, 12, 9, 6 Mbps, automatic rate selection), full compatibility with TPC (adjustable power output) and DFS (automatic channel selection, radar detection) as per ETSI EN 301 893 V. 1.5.1., EN 302 502 Transmission rates, 300 Mbps as per 802.11n with MSC15 (fallback to 6.5 Mbps with MSC0). Settings for 802.11 a/g/n compatibility mode or pure g, pure a, pure n, 802.11n/g, 802.11n/a Output power at the 802.11a/h: 17 dBm @ 6 to 24 Mbps, 15 dBm @ 36 Mbps, 13 dBm @ 54 Mbps, radio module, 5 GHz 802.11n: 17 dBm @ 6.5/13/130 Mbps (MCS0/8), 13 dBm @ 65/130/300 Mbps (MCS7/15) Minimum transmission Transmission-power reduction in software by 1dB steps to min. 0.5 dBm Reception sensitivity 802.11b: -89 dBm @ 11 Mbps, -94 dBm @ 1 Mbps 802.11g: -93 dBm @ 6 Mbps, -79 dBm @ 54 Mbps 802.11n: -93 dBm @ 6.5 Mbps (MCS0/8), -75 dBm @ 65 Mbps (MCS7/15) Reception sensitivity 802.11a/h: -93 dBm @ 6 Mbps, -75 dBm @ 54 Mbps 802.11n: -93 dBm @ 6.5 Mbps (MCS0/8), -71 dBm @ 65 Mbps (MCS7/15) Radio channels Up to 13 channels, max. 3 non-overlapping (2.4-GHz band) Up to 26 non-overlapping channels (channels available vary according to country regulations; DFS for automatic dynamic channel selection required) 10/100/1000 Mbps auto-sensing, PoE as per IEEE 802.3af 1st LAN port 2nd LAN port 10/100 Mbps auto-sensing, PoE as per IEEE 802.3af Two reverse SMA connectors for external LANCOM AirLancer Extender antennas or for antennas Serial configuration interface / COM port (10-pin connector): 19,200 - 115,000 baud Serial interface WLAN protocols PPPoE, Multi-PPPoE, ML-PPP, PPTP (PAC or PNS) and plain Ethernet (with or without DHCP), RIP-1, EN 60950, EN 301893 V 1.5.1 is currently in preparation UL-2043 is currently in preparation Certifications notified in Germany, Belgium, Netherlands, Luxembourg, Austria, Spain, Switzerland, UK, Italy, Portugal, Czech Republic, Denmark, France Manual Hardware Ouick Reference (DE/EN), Installation Guide (DE/EN/FR/ES/IT/PT/NL) CD/DVD with firmware, management software (LANconfig, LANmonitor, LANCAPI) and documentation Ethernet cable, 3m (not included in bulk pack) Combicon connector For connection to a power supply ranging from 10 - 28 V DC. Two 3-dBi dipole dual-band antennas 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. 110829

12 V DC, external power adapter (230V) with Please note that depending on the intended use bayonet connector to secure against disconnection your power supply has to support the extended

Robust metal housing, IP 50 protection class, for wall, mast and top-hat rail mounting, 21 cm x 15.2 cm x 4.5 cm (length/width/depth), weighs approx. 1.1 kg (without mounting materials)

2.4 GHz or 5 GHz, 2400-2483.5 MHz (ISM) or 5150-5825 MHz (restrictions vary between countries

temperature range.

24 V DC, input voltage range 10 - 28 V

Power consumption Max. power consumption: 6.8 W @ 12 V, 8.6 W @ 24 V

Via Power-over-Ethernet as per IEEE 802.3af

Temperature range -20 - +50 °C; humidity 0-95%; non-condensing