



...connecting your business

LANCOM L-451agn Wireless

Quick Reference Guide

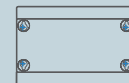


Please observe the following when setting up the device

- For devices to be operated on the desktop, please attach the adhesive rubber footpads
- Do not rest any objects on top of the device



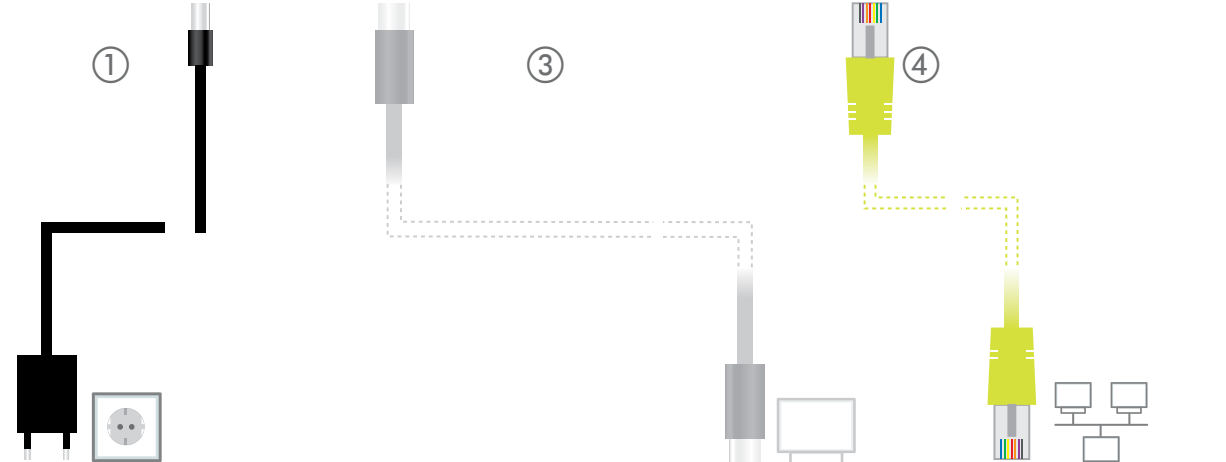
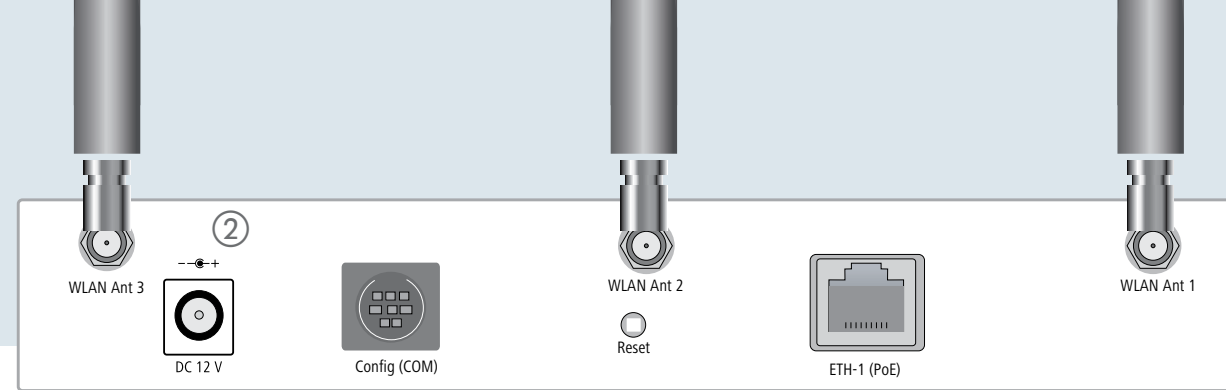
- Keep the ventilation slots on the side of the device clear of obstruction
- In case of wall mounting, use the drilling template as supplied



- Rack installation with the optional LANCOM Rack Mount (not supplied)

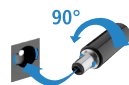


LANCOM
Systems



①

Power
When connecting the cable to the device, turn the bayonet connector 90° clockwise until it clicks into place.



Use only the supplied power adapter.

②

WLAN antennas
Screw the supplied WLAN antennas to the antenna terminals Ant. 1, Ant. 2, and Ant. 3. Depending on how the antennas are to be used, the 'Antenna Grouping' may need to be configured in order to ensure the desired MIMO behavior.

③

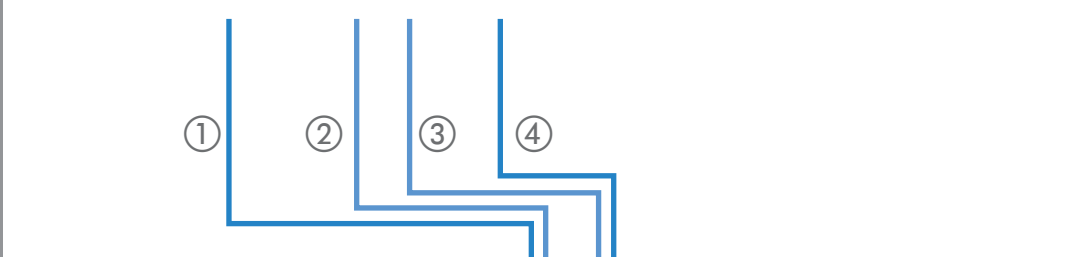
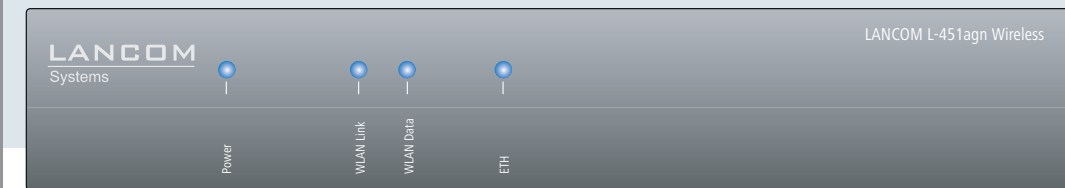
Optional: Serial configuration cable
You can connect the device to a PC with a configuration cable (available separately).

④

LAN
Use the cable with the kiwi-colored connectors to connect the interface ETH to your PC or a LAN switch.



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 changed when the device is switched off. Mounting or demounting antennas while the device is switched on may cause the destruction of the WLAN module!



① Power

Off	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.

② WLAN Link

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.
Blinking green	DFS scanning or other scan procedure.

④ WLAN Data

Flickering green	TX data traffic.
Flickering red	Error in wireless LAN (TX error, e.g. transmission error due to a poor connection)
Red, blinking	Hardware error in the WLAN module

③ ETH

Off	No networking device attached
Green, on (permanently)	Connection to network device operational, no data traffic
Flickering green	Data traffic

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

Hardware	
Power supply	12 V DC, external power adapter (110 or 230V) with bayonet connector to secure against disconnection
Power consumption	Approx. 9.51 watt via 12V/1.5 A power adapter (value refers to the overall power for the access point and power adapter), about 8.5 watts via PoE
Environment	Temperature range 0 – 40°C; humidity 0-95%; non-condensing Temperature range 0 – 45° C when mounted vertically on a LANCOM wall mount with cables running to the side
Housing	Robust synthetic housing, rear connectors, ready for wall mounting, Kensington lock; measures 210 x 45 x 140 mm (W x H x D)
Number of fans	None; fanless design, no rotating parts, high MTBF

WLAN	
Frequency band	2400-2483.5 MHz (ISM) or 5150-5825 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 26 non-overlapping channels (channels available vary according to country regulations; DFS for automatic dynamic channel selection required)

Interfaces	
ETH1 (PoE)	10/100/1000 Base-TX, autosensing, auto node hub, PoE compliant with IEEE 802.3af
DSL over LAN (DSLol)	The LAN port can (even parallel to LAN mode) be used as a WAN port for connecting external DSL modems (PPPoE) or external routers.
External antenna connectors	Three reverse SMA connectors for external LANCOM AirLancer Extender antennas or for antennas from other vendors.
Serial interface	Serial configuration interface / COM port (8-pin Mini-DIN): 9,600 - 115,000 baud

Declaration of conformity	
CE	EN 301 489, EN 60950
Wi-Fi Alliance certification	802.11a/b/g/n Wi-Fi Certified
2.4 GHz WLAN	EN 300 328
5 GHz WLAN	EN 301 893
Notifications	Notified in Cyprus, Denmark, Finland, France, Germany, Greece, Ireland, Liechtenstein, Luxembourg, Malta, Netherlands, Norway, Portugal, Sweden, Switzerland, UK

Package content	
Manual	Quick Reference Guide (DE/EN) and Quick Installation Guide (DE/EN/FR/ES/IT/PT/NL)
CD/DVD	CD/DVD with firmware, management software (LANconfig, LANmonitor, LANCAPI) and documentation
Cable	Ethernet cable, 3m (LAN: kiwi-colored connectors; WAN: green connectors)
Antennas	Three 3-dBi dipole dual-band antennas
Power adapter	External power adapter, NEST 12 V/1.5 A DC/S, barrel connector 2.1/5.5 mm bayonet, LANCOM item no. 110723 (EU, 230 V), LANCOM item no. 110829 (UK, 230 V)

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MOUNTING AND CONNECTING UP

TECHNICAL DATA