# LANCOM L-322agn dual Wireless

## Quick Reference Guide

. . . c o n n e c t i n g   y o u r   b u s i n e s s
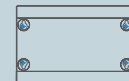
**LANCOM Systems**

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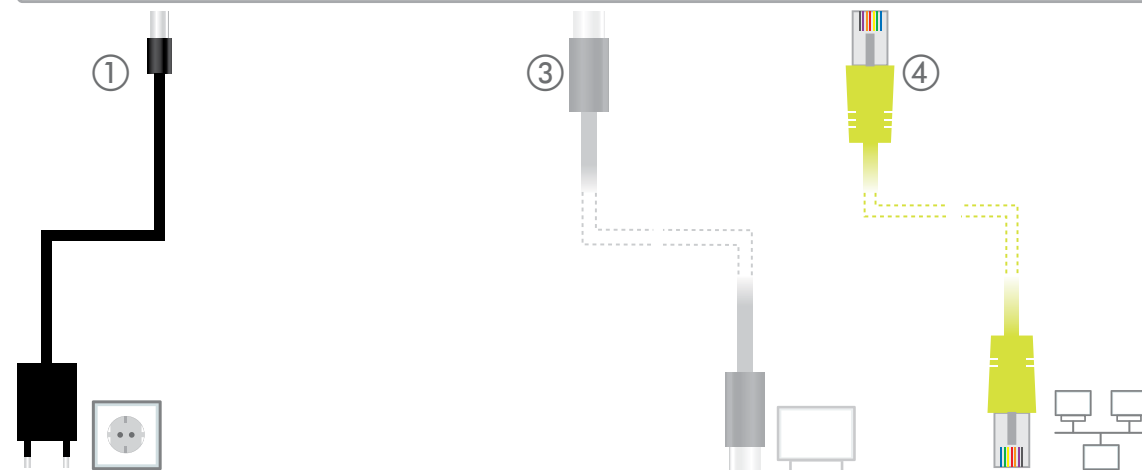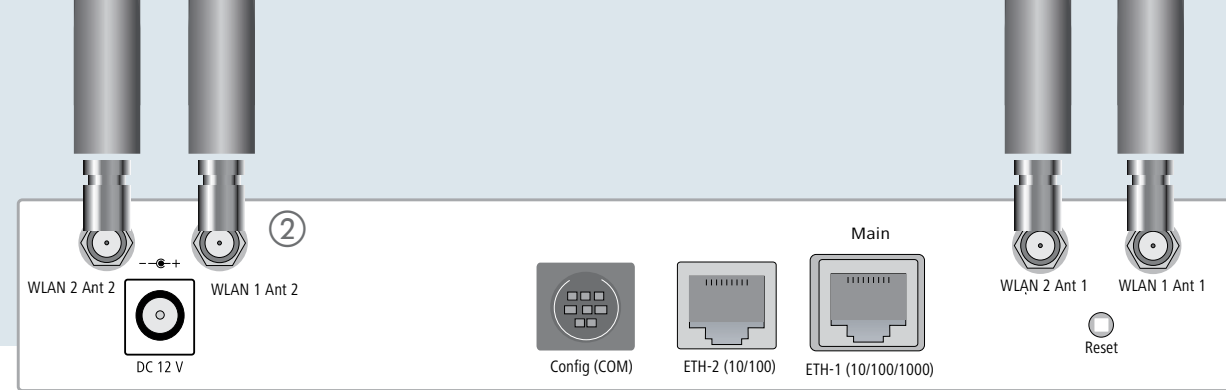**Please observe the following when setting up the device**

- 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
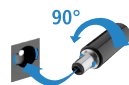- In case of wall mounting, use the drilling template as supplied
- Rack installation with the optional LANCOM Rack Mount (not supplied)

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WLAN 2 Ant 2   WLAN 1 Ant 2   ②   Main   WLAN 2 Ant 1   WLAN 1 Ant 1

DC 12 V   Config (COM)   ETH-2 (10/100)   ETH-1 (10/100/1000)   Reset

①   ③   ④

**① Power**
When connecting the cable to the device, turn the bayonet connector 90° clockwise until it clicks into place.

90°

Use only the supplied power adapter.

**② WLAN antennas**
Screw the WLAN antennas supplied onto the connectors WLAN1 Ant 1, WLAN1 Ant 2, WLAN2 Ant 1 and WLAN2 Ant 2. 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 interfaces ETH1 or ETH2 to your PC or a LAN switch.
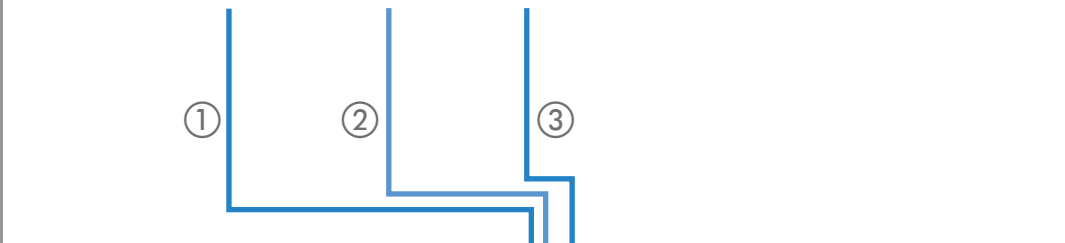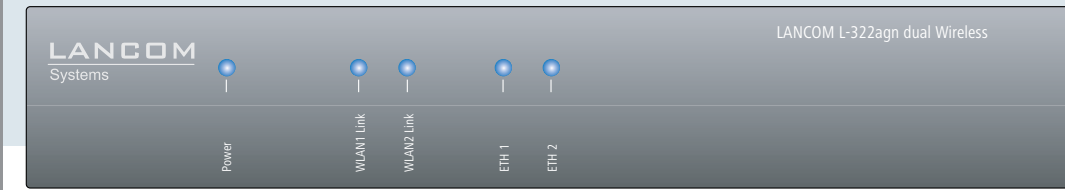
> ⚠ If you operate separately purchased antennas, please ensure that you do not exceed the maximum allowed transmission power for your system. The system operator is responsible for adhering to the threshold values.
> Antennas are only to be attached or changed when the device is switched off. Mounting or demounting antennas while the device switched on may cause the destruction of the WLAN module!
> If you intend to operate both WLAN modules in the same frequency band, we recommend using antennas with extension cables. You can position these types of antennas further apart from one another, which will lead to less interferences.
> US version: Antennas not part of the delivery content are a strict violation of FCC rules and must not be used.

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MOUNTING AND CONNECTING THE DEVICE

LANCOM L-322agn dual Wireless

**LANCOM Systems**

Power   WLAN Link   WLAN Link   ETH 1   ETH 2

①   ②   ③

**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 WLAN1 Link, WLAN2 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. |

**③ ETH 1 and ETH 2**

| 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.

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TECHNICAL DATA

| Hardware | |
|---|---|
| Power supply | 12 V DC, external power adapter (110 or 230V) with bayonet connector to secure against disconnection |
| Power consumption | Approx. 10.7 watt via 12V/1A power adapter (value refers to the overall power for the access point and power adapter), about 14.4 watts via PoE |
| Environment | Temperature range 0 – 45°C; humidity 0 – 95%; non-condensing |
| 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 | 10/100/1000 Base-TX, autosensing, auto node hub, PoE compliant with IEEE 802.3af |
| ETH2 | 10/100Base-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 | Four reverse SMA connectors for external LANCOM AirLancer Extender antennas or for antennas from other vendors. US version: Antennas not part of the delivery content are a strict violation of FCC rules and must not be used. |
| Serial interface | Serial configuration interface / COM port (8-pin Mini-DIN): 9,600 - 115,000 baud |

| Declaration of conformity | |
|---|---|
| CE | EN 301 489-1, EN 301 489-17, EN 60950-1 |
| FCC | FCC Class B part 15, FCC part 15.247, 15.407 (US version only) |
| Wi-Fi Alliance Certification | 802.11a/b/g/n Wi-Fi Certified |
| 2.4-GHz WLAN | ETS 300 328 |
| 5 GHz WLAN | EN 301 893, EN 302 502 (BFWA) |
| Notifications | Certifications notified in Germany, Belgium, Netherlands, Luxembourg, Austria, Spain, Switzerland, UK, Italy, Portugal, Czech Republic, Denmark, Malta, France |

| Package content | |
|---|---|
| Manual | Quick Reference Guide (DE, EN) and Quick Installation Guide (DE/EN/FR/ES/IT/PT/NL), FCC leaflet (US version only) |
| 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 | Four 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), LANCOM item no. 111007 (US, 110 V) |