LANCOM LN-830U
Quick Reference Guide

Cloud-ready

LANCOM
Systems

DC 12 V   Config (Com)   Reset   ETH2   ETH1 (PoE)
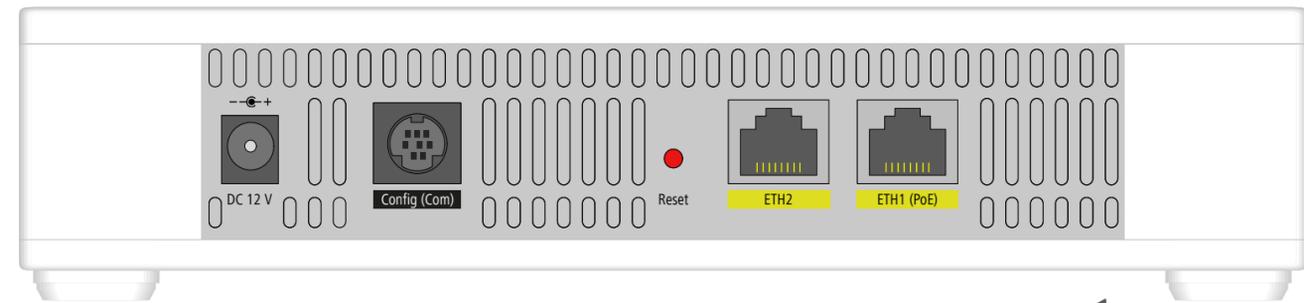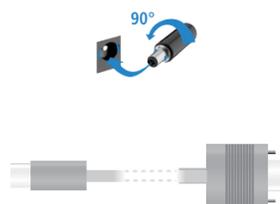
① ② ③ ④ ⑤

① **Power**

After connecting the cable to the device, turn the connector 90° clockwise to prevent it from accidental unplugging. Use only the supplied power adapter.

② **Configuration interface**

Use a serial configuration cable to connect the serial interface (COM) to the serial interface of the device you want to use for configuring / monitoring (separately available).

③ **Reset button**

Pressed up to 5 seconds: device restart

Pressed until first flashing up of all LEDs: configuration reset and device restart

④ **Ethernet interfaces**

Use the Ethernet cable to connect the interfaces ETH1 (PoE) or ETH2 to your PC or a LAN switch.

⑤ **USB interface (inner right side)**

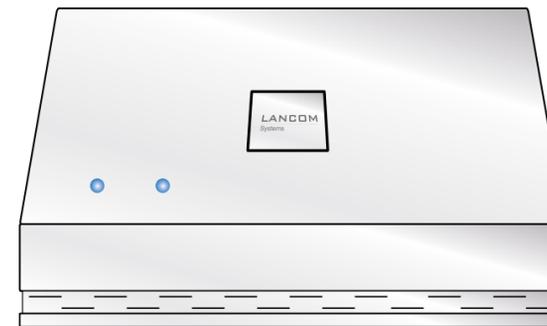Connect compatible USB devices either directly to the USB interface, or use a suitable USB cable.

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 and do not stack multiple devices
> In case of wall or ceiling mounting, use the drilling template as supplied
> Keep the ventilation slots on the side of the device clear of obstruction

> Lockable wall and ceiling mounting with the LANCOM Wall Mount (LN)(available as an accessory)
> Please note that when the two Wi-Fi modules are operating in the same frequency band, mutual interference cannot be ruled out.

Before initial startup, please make sure to take notice of the information regarding the intended use in the enclosed installation guide!
Operate the device only with a professionally installed power supply at a nearby power socket that is freely accessible at all times.

MOUNTING AND CONNECTING THE DEVICE

① ②

① **Power**

Off	Device switched off
Green, permanently*	Device operational, resp. device paired / claimed and LANCOM Management Cloud (LMC) accessible
Red / green, blinking	Configuration password not set. Without a configuration password, the configuration data in the device is unprotected.
Orange / green, blinking alternately with the WLAN link LED	At least one Wi-Fi module is in managed mode and has not found a WLAN controller yet. The corresponding Wi-Fi module(s) is/are switched off until a WLAN controller is found to supply a configuration, or until being switched manually into another operating mode.
Orange / red, blinking alternately with the WLAN link LED	At least one Wi-Fi module is in managed mode and has found a WLAN controller. However, the WLAN controller cannot assign a configuration because the firmware and/or the device's loader version is not compatible with the WLAN controller.
1x green inverse blinking*	Connection to the LMC active, pairing OK, device not claimed
2x green inverse blinking*	Pairing error, resp. LMC activation code not available
3x green inverse blinking*	LMC not accessible, resp. communication error

*) The additional power LED statuses are displayed in 5-seconds rotation if the device is configured to be managed by the LANCOM Management Cloud.

② **WLAN Link**

Off	No Wi-Fi network defined or Wi-Fi module deactivated. The Wi-Fi module is not transmitting beacons.
Green, permanently	At least one Wi-Fi network is defined and Wi-Fi module activated. The Wi-Fi module is transmitting beacons.
Green, inverse flashing	Number of flashes = number of connected Wi-Fi 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.
Red, blinking	Wi-Fi module hardware error

TECHNICAL DETAILS

Hardware

Power supply	12 V DC, external power adapter (110 or 230 V) with bayonet connector to secure against disconnection or PoE as per 802.3af via ETH1
Power consumption	Approx. 11 W via 12 V / 2 A power adapter (value refers to the power of the access point without power adapter), about 12 W via PoE, in each case max. +3 W when operating the USB port.
Environment	Temperature range 0 °C to 40 °C for wall mounting (vertical mounting position) and 0 °C to 35 °C for ceiling mounting (horizontal mounting position); humidity 0-95 %; non-condensing
Housing	Robust synthetic housing, rear connectors, ready for wall and ceiling mounting; measures 205 x 42 x 205 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 5150-5725 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 19automatic dynamic channel selection required)

Interfaces

ETH1 (PoE)	10 / 100 / 1000 Base-TX, autosensing, auto node hub, PoE compliant with IEEE 802.3af
ETH2	10 / 100 / 1000 Base-TX, autosensing, auto node hub
USB	USB 2.0 hi-speed host port
Serial interface	Serial configuration interface/COM-port (8-pin mini-DIN): 9,600 - 115,000 baud

Declaration of conformity

Hereby, LANCOM Systems GmbH | Adenauerstrasse 20/B2 | D-52146 Wuerselen, declares that this device is in compliance with Directives 2014/30/EU, 2014/53/EU, 2014/35/EU, 2011/65/EU, and Regulation (EC) No. 1907/2006. The full text of the EU Declaration of Conformity is available at the following Internet address: www.lancom-systems.com/doc

Package content

Documentation	Quick Reference Guide (DE/EN); Installation Guide (DE/EN)
Cable	1 Ethernet cable, 3 m
Power adapter	External power adapter, 12 V / 2 A DC/S, barrel connector 2.1 / 5.5 mm bayonet, LANCOM item no. 111760 (not for WW devices)