Hardware

Power

Housing

Interfaces

WAN, LAN

Ethernet

standards

GPS

consumption

LANCOM 1780EW-4G+

Cellular interface disabled

Cellular data transmission

Logging on to cellular network

Uploading module firmware

greater than or equal to -70 dB

field strength less than -87 dB

No networking device attached

operational, no data traffic

field strength between -86 dB and

No cellular reception

Medium signal strength,

Low signal strength,

Green, permanently Connection to network device

Logon to cellular network successful

Green, permanently Connection to cellular network active

Red, permanently Hardware error/module unavailable

Red / green, blinking SIM card error (PIN)

Green, permanently Good signal strength,

Green, flickering

permanently

Red / orange,

4) SIGNAL

permanently

Orange, blinking

VPN connection inactive Green, permanently VPN connection active

Green, blinking Establishing VPN connections

point and the device operating in DFS scanning or other scan

Hardware error in Wi-Fi module

*) The additional power LED statuses are displayed in 5-seconds rotation if the device is configured to be managed by the LANCOM ManageHereby, LANCOM Systems GmbH | Adenauerstrasse 20/B2 | D-52146 Wuerselen, declares that this device is in compliance

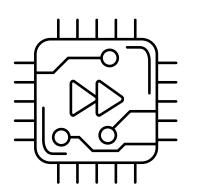
This product contains separate open-source software components which are subject to their own licenses, in particular the General Pub License (GPL). The license information for the device firmware (LCOS) is available on the device's WEBconfig interface under "Extras > License ** Please respect the restrictions which apply in your country when setting up an antenna system (in particular the antenna Information". If the respective license demands, the source files for the corresponding software components will be made available on a downgain and transmission power). For information about calculating the correct antenna setup, please refer to

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

www.lancom-systems.com.

300 MBit/s DC 12V Config (Com)

Hardware Quick Reference LANCOM 1780EW-4G+



1 LTE / 4G antennas

Connect the two supplied cellular antennas to the connectors located at the device's sides.

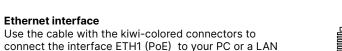


GPS antenna (optional) Connect the GPS antenna (free of charge) to the



Use the cable with the green-colored connectors to connect the interface ETH2 to your WAN modem.

Configuring the device via the serial interface requires





Ethernet interface

Serial interface

a serial configuration cable

(available as an accessory).

Slide the SIM card into the slot using the marker to ensure that the card is the right way round. Ensure that the SIM card clicks into place on insertion. To



1 Power

Green / orange,

1x green inverse

2x green inverse

3x green inverse

Green, blinking

WLAN

blinking*

Device switched off

accessible

is unprotected.

Pairing error, resp.

Green, permanently At least one Wi-Fi network is defined

pause (default).

client mode.

resp. device paired / claimed and

Configuration password not set.

Connection to the LMC active,

pairing OK, device not claimed

LMC not accessible, resp.

communication error

LMC activation code not available

No Wi-Fi network defined or Wi-Fi

module is not transmitting beacons.

module deactivated. The Wi-Fi

and Wi-Fi module activated. The

Wi-Fi module is transmitting

Number of flashes = number of

connected Wi-Fi stations and P2P

wireless connections, followed by a

Alternatively the frequency of the

over the defined P2P link or the

flashing can indicate signal strength

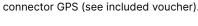
signal strength between the access

LANCOM Management Cloud (LMC)

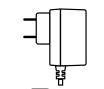
Without a configuration password,

the configuration data in the device

Green, permanently Device operational,

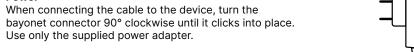


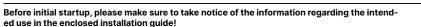
Screw the two supplied WLAN antennas onto the connectors WLAN Ant 1 and WLAN Ant 2. The desired MIMO behaviour can be configured under > Physical WLAN Settings > Radio > Antenna grouping



remove the card from the device again, press the card lightly into the device. Let go to release the SIM card from the slot.







Operate the device only with a professionally installed power supply at a nearby power socket that is freely accessible at all times.

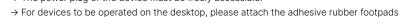
The SIM card may only be inserted or removed when the device is switched off. Inserting or removing the SIM card when the device is switched on can destroy the 4G module!

Antennas may only be mounted or replaced when the device is switched off. Mounting or removing the antennas when the device is switched on can destroy the 4G or Wi-Fi modules!









[→] Do not rest any objects on top of the device

→ Keep all 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 (separately available)

→ In the case of separately purchased antennas, ensure that the permissible transmission power of the system is not exceeded. The operator of the system is responsible for compliance with the limits.





Positioning with the additional GPS antenna (optional)

2 Ethernet cables, 3 m (LAN: kiwi-colored connectors; WAN: green connectors) Two 3dBi dipole dualband antennas; two LTE / 4G antennas for LTE / UMTS Antennas External power supply adapter 230 V, 12 V / 1.5 A DC/S, barrel connector 2.1 / 5.5 mm bayonet, LANCOM item no. 111301 (EU, 230 V), LANCOM item no. 111302 (UK, 230 V)

band 29 (700 MHz), band 30 (2300 MHz), band 41 (2500 MHz)