SECURE NETWORKS



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



(1)

WLAN antennas

Screw the two supplied

WLAN antennas onto the

connectors WLAN Ant 1 and

WLAN Ant 2. Depending on

how the antennas are to be

used, 'Antenna Grouping'

may need to be configured

in order to provide the

desired MIMO behavior.

> 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)



WLAN 4G Ant 2 Ant 2 Config (Com) DC 12 V

. .

90° clockwise until it

clicks into place.

Use only the supplied

power adapter.

(2)

Power

Serial Interface When connecting the You can connect the cable to the device, turn device to a PC with a the bayonet connector configuration cable (available separately).

(3)

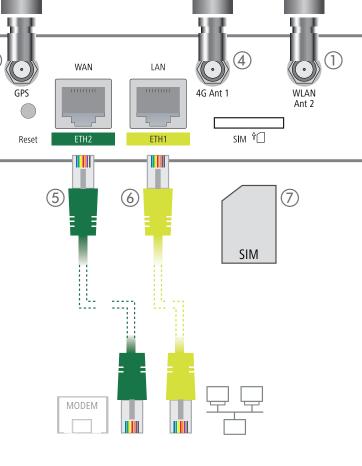
LTE/4G antennas or Optional: GPS antenna Screw the two supplied cellular antennas onto the connectors 4G Ant 2 and 4G Ant 1. Alternatively screw the freely available GPS antenna onto the connector GPS (see included voucher).

(4)

When working with separately purchased antennas, please ensure you do not exceed the maximum Antennas are only to be attached or changed when the device is switched off. Mounting or demoun antennas with the device switched on may cause the destruction of the 4G or WLAN modules!

LANCOM 1780EW-4G Quick Reference Guide





(6)

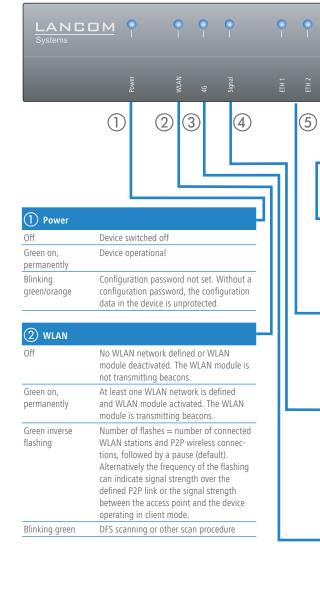
(5)

WAN Interface Use the cable with the green-colored connectors to connect tors to connect the

Ethernet Interface Use the cable with the kiwi-colored connecyour WAN modem. PC or a LAN switch.

$\overline{7}$ Optional: SIM card

Slide the SIM card into the slot using the marker to ensure that the card is the right way round. the interface ETH 2 to interface ETH 1 to your Ensure that the SIM card clicks into place on insertion. To remove the card from the device again, press the card lightly into the device. Let go to release the SIM card from the slot.



	LANCOM 1780EW-4G	
	NAA	
	6	
6 vpn		
Off	VPN connection inactive	
Green on, permanently	VPN connection active	
Blinking green	Establishing VPN connections	
(5) етн		
Off	No networking device attached	
Green on, permanently	Connection to network device operational no data traffic	
Flickering green	Data transmission	
(4) Signal		
Off	No cellular reception	
Green on, permanently	Good signal strength, greater than or equal to -70 dB	
Orange on, permanently	Medium signal strength, field strength between -86 and -71 dB	
Blinking orange	Low signal strength, field strength less than -87 dB	
(3) 4G		
Ŭ	Collular interface disabled	
Off Green on,	Cellular interface disabled Connection to cellular network active	
permanently		
Flickering green	Cellular data transmission	
Orange on, permanently	Logon to cellular network successful	
Blinking orange	Logging on to cellular network	
Red on, permanently	Hardware error/module unavailable	
Blinking red/green Blinking red/orange	SIM card error (PIN)	
	Uploading module firmware	

Power supply	12 V DC,
	tion
Power consumption	Approx. '
	and pow
Environment	Temperat
	Temperat
Usualaa	running 1
Housing	Robust sy measures
Number of fans	None; fa
	None, Ia
Interfaces	
WAN, LAN	10/100/1
Serial Interface	Serial con
	optional transpare
WLAN: Ant 1, Ant 2	
WEAN, ALL I, ALL Z	Two reve for anten
4G: Ant 1, Ant 2	Two SMA
-0. Ant 1, Ant 2	LANCOM
GPS	SMA jack
WAN protocols	. ,
	PPPoE, N
Ethernet	RIP-1, RI
Data transmission in	
Supported standards	GPRS, ED
LTE	Band 1 (2
LIL	band 20
UMTS/HSxPA/HSPA+	Band 1 (2
EDGE/GPRS	GSM 900
	+24 dBm
Maximum fransmission	
Maximum transmission power	124 GDII
Maximum transmission power GPS	-
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ving the SIM card with the device switched on m cause the destruction of the 4G module!

external power adapter 230 V with bayonet connector to secure against disconnec-

,83 W via external power adapter (value refers to the overall power for the router adapter); about 19 W via PoE (IEEE 802.3at)

ure range 0–35 °C; humidity 0–95 %, non-condensing.

ure range 0–40 °C when mounted vertically on a LANCOM wall mount with cables the side.

nthetic housing, rear connectors, ready for wall mounting, Kensington lock; 210 x 45 x 140 mm (W x H x D)

less design, no rotating parts, high MTBF

000 Base-TX, autosensing, auto node hub

guration interface / COM port (8-pin Mini-DIN): 9,600-115,000 baud, suitable for onnection of analog/GPRS modems. Supports internal COM-port server and provides nt asynchronous serial-data transfer via TCP.

se SMA connectors for external LANCOM AirLancer Extender antennas or as from other vendors*

connectors for the supplied dipole rod antennas (LTE, UMTS, Edge), compatible AirLancer Extender antennas for 4G or 3G, or from other manufacturers*

for connecting an optionally available GPS antenna

ulti-PPPoE, ML-PPP, PPTP (PAC or PNS) and plain Ethernet (with or without DHCP), -2, VLAN, IP

GE, UMTS, HSxPA, HSPA+, LTE

00 MHz), band 3 (1800 MHz), band 7 (2600 MHz), band 8 (900 MHz), FDD800 MHz) with MIMO

00 MHz), band 8 (900 MHz) with diversity

900 MHz), DCS 1800 (1800 MHz), PCS 1900 (1900 MHz)

with the additional GSM antenna (optional): 1575.42 MHz

ailable from the product page on our website www.lancom.eu

Quick Reference (DE/EN), Installation Guide (DE/EN)

ent software (LANconfig, LANmonitor) and LCOS documentation

cable, 3m (LAN: kiwi-colored connector; WAN: green connector)

dipole dualband antennas;

antennas for LTE/UMTS/EDGE

ower supply adapter 230 V, NEST 12 V/1.5 A DC/S, barrel connector 2.1/5.5 mm

item no. 110723 or 111301 (EU, 230 V); item no. 110829 or 111302 (UK, 230 V)

hich apply in your country when setting up an antenna system (in particular the wer). For information about calculating the correct antenna setup, please refer to

firmware (LCOS) is available in the file LCOS-Licenses.txt on the data medium