

LANCOM 1780EW-3G

Hardware Quick Reference



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

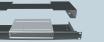


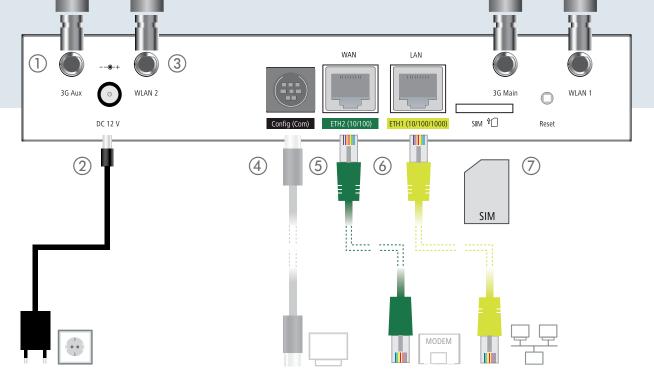
Rack installation with the





optional LANCOM Rack Mount (not supplied)





3G antennas or **GPS** antenna

Screw the two supplied cable to the device, turn cellular antennas onto the the bayonet connector connectors 3G Aux and 90° clockwise until it Alternatively screw the free available GPS antenna onto the connectors 3G Aux (see included voucher).

struction of the 3G or WLAN modules!



power adapter.

When working with separately purchased antennas, please ensure you do not exceed the maximum permissible transfer.

operator is responsible for adhering to the threshold values.

ennas are only to be attached or changed when the device is switched off. unting or demounting antennas with the device switched on may cause the



When connecting the clicks into place.





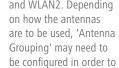
behavior.





Screw the two supplied the connectors WLAN1 PC with a configuration connectors to con- connectors to con- way round

and WLAN2. Depending cable provide the desired MIMO



Use only the supplied



Wireless LAN antennas Serial configuration

Connect the device to a the green-colored





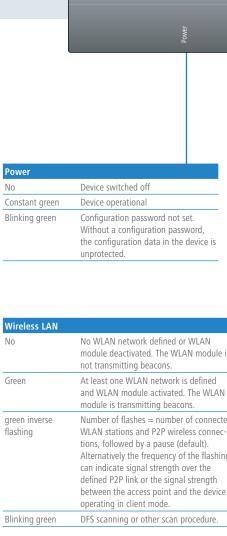
LAN

Use a cable with Slide the SIM card into the slot using the marker to ensure that the card is the right

SIM card

(available as accessory). ETH2 to your WAN ETH1 to your PC or 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.





	Power	36	VPN	ETH 1	
Power				ETH 1 and ETH 2	!
No	Device switched off			No	No networking device attached
Constant green Blinking green	Device operational Configuration password not set.			Constant green	Connection to network device operational, no data traffic
billiking green	Without a configuration password,			Flickering green	Data traffic
	the configuration data in the device is unprotected.				
Wireless LAN			VPN		
No	No WLAN network defined or WLAN	'	No	VPN conne	ction inactive
	module deactivated. The WLAN module is not transmitting beacons.		Blinking gre	en Establishin	g VPN connections
Green	At least one WLAN network is defined	-	green const	antly on VPN connection active	
Green	and WLAN module activated. The WLAN module is transmitting beacons.				
green inverse	Number of flashes = number of connected				
flashing	WLAN stations and P2P wireless connec-	3 G			
	tions, followed by a pause (default). Alternatively the frequency of the flashing can indicate signal strength over the defined P2P link or the signal strength	No			face switched off
			Blinking red/green		rror
			Blinking orange		to cellular network
	between the access point and the device operating in client mode.		nge constantly or		Logon to cellular network successful
Blinking green	DFS scanning or other scan procedure.	9	en constantly on iking		nnection active; faster blinking aster connection
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Hardware					
Power supply	12 V DC, external power supply unit (230 V) with bayonet connector to prevent unplugging				
Power consumption	Max. ca.13.5 W				
Environment	Temperature range 5 $-$ 40 °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				
Interfaces					
WAN	10/100Base-TX, autosensing, auto node hub				
LAN	10/100/1000 Base-TX, autosensing, auto node hub				
External antenna connectors	Two reverse SMA connectors for external LANCOM AirLancer Extender antennas or for antennas from other vendors. Please respect the restrictions which apply in your country when setting up an antenna system. For information about calculating the correct antenna setup, please refer to www.lancom.eu.				
External antenna con- nectors	Two SMA antenna connectors for external UMTS antennas (RX diversity) or for operating a GPS antenna at the AUX connector				
Serial interface	Serial configuration interface / COM port (8-pin Mini-DIN): 9,600 - 115,000 baud, suitable for optional connection of analog/GPRS modems. Supports internal COM-port server and provides transparent asynchronous serial-data transfer via TCP				
WLAN protocols					
Ethernet	PPPoE, Multi-PPPoE, ML-PPP, PPTP (PAC or PNS) and plain Ethernet (with or without DHCP), RIP-1, RIP-2, VLAN, IP				
UMTS modem					
Supported standards:	UMTS, HSPA+ (HSDPA with up to 21 Mbps, HSUPA with up to 5.76 Mbps), EDGE and GPRS support				
UMTS HSxPA bands	850/900/1900/2100 MHz				
EDGE GPRS bands	850/900/1800/1900 MHz (EDGE to max. 236 Kbps)				
Declaration of confo	ormity				
CE	EN 55022, EN 55024, EN 60950				
2.4 GHz WLAN	ETS 300 328				
5 GHz WLAN	EN 301 893 Version 1.5.1, EN 302 502 (BFWA)				
Notifications	Certifications notified in Germany, Belgium, Netherlands, Luxembourg, Austria, Spain, Switzerland, UK, Italy, Portugal, Czech Republic, Denmark, Malta, France				

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

CD/DVD with firmware, management software (LANconfig, LANmonitor, LANCAPI) and docu-

External power supply adapter (230V), NEST 12 V/1.5 A DC/S, barrel connector 2.1/5.5 mm

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

Two 2-dBi dipole UMTS/GPRS antennas (850-960 Mhz and 1700-2220 Mhz)

Hardware Ouick Reference (DE/EN)

Two 3dBi dipole dualband antennas

bayonet, LANCOM item no. 110723

CD/DVD

Antennas

Installation Guide (DE/EN/FR/ES/IT/PT/NL)

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