- > 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)



clicks into place.

Use only the supplied power adapter.

DC 12 V

WLAN Antennas

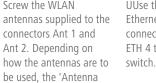
When connecting the Screw the WLAN the bayonet connector connectors Ant 1 and 90° clockwise until it be used, the 'Antenna

Grouping' parameter may

need to be configured in

order provide the desired

MIMO behavior.



Ethernet Interface UUse the cable with the You can connect the cable to the device, turn antennas supplied to the Ethernet connectors to device to a PC with a connect interface ETH 1 to configuration cable ETH 4 to your PC or a LAN (available separately).

Serial Interface **USB** Interface You can use the USB interface to connect a compatible USB cellular modem, a USB printer or a USB flash drive for

device configuration.

ISDN Interface** to connect the ISDN interface to the NTBA

additionally.

Use the ISDN cable with Connect the cable with the light-blue connectors the dark-blue connectors to the DSL splitter. Please ensure that you carefully if you wish to use ISDN follow any instructions from your provider regarding the installation of the DSL splitter and

ADSL Interface*

*) For operation without splitter please use the DSL cable supplied by your Internet provider. For further information please contact your Internet provider.

NTBA (if applicable).

Red on. 3) ADSL Green on, Blinking red/orange

ISDN hardware error

(7) VPN Device switched off VPN connection inactive VPN connection active Device operational Configuration password not set. Without a Blinking green Establishing VPN connections configuration password, the configuration data in the device is unprotected. Charge or time limit reached No WLAN network defined or WLAN module deactivated. The WLAN module is not transmitting beacons. WAN connection inactive At least one WLAN network is defined and WLAN module activated. The WLAN WAN connection active module is transmitting beacons. Number of flashes = number of connected WAN connection error WLAN stations and P2P wireless connections, followed by a pause (default). Alternatively the frequency of the flashin can indicate signal strength over the defined P2P link or the signal strength interface deactivated between the access point and the device DSL connection active operating in client mode. Blinking green DFS scanning or other scan procedure Flickering green DSL data transmission DSL transmission error DSL hardware error No networking device attached Connection to network device operational. no data traffic) ISDN** permanently Flickering green Data transmission interface deactivated D-channel active permanently B-channel active Orange on, This product contains separate modem firmware with open-Flickering green ISDN data transmission source software components. These are subject to their own licenses, in particular the General Public License (GPL). The license ISDN transmission error

text for the modem firmware is available on the data medium

supplied. License information for the device firmware (LCOS) is

available on the data medium supplied as well.

ANGOM O O O O O O LANCOM 178

12 V DC, external power adapter (110 or 230 V) with bayonet connector to secure against disconnection measures 210 x 45 x 140 mm (W x H x D) ireless LAN

Temperature range 5-40 °C; humidity 0-95 %, non-condensing Robust synthetic housing, rear connectors, ready for wall mounting, Kensington lock; None; fanless design, no rotating parts, high MTBF 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) > ADSL conformity according to: ADSL2+ as per ITU G.992.5 Annex A/Annex B/Annex J/Annex M, ADSL2 as per ITU G.992.3 Annex A/Annex B/Annex J/Annex M, ADSL as per ITU G.992.1 Annex A/Annex B > Supports just one virtual connection at a time in ATM (VPI-VCI pair). 4 individual ports, 10/100/1000 Mbps Gigabit Ethernet, by default set to switch mode. Up to 3 ports can be operated as additional WAN ports. Ethernet ports can be electrically disabled in the LCOS USB USB 2.0 Hi-Speed host port for connecting USB printers (USB print server), serial devices (COM-port servers), USB data media (FAT file system), or supported UMTS USB modems Config (Com) 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. 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 PPPoE, Multi-PPPoE, ML-PPP, PPTP (PAC or PNS), PPPoA, IPoA and IPoE (with or without DHCP), RIP-1, RIP-2, VLAN, GRE, EoGRE, L2TPv2 (LAC or LNS), IPv6 over PPP (IPv6 and IPv4/IPv6 dual stack session), IP(v6)oE (autoconfiguration, DHCPv6 or static) 1TR6, DSS1 (Euro-ISDN), PPP, X75, HDLC, ML-PPP, V.110/GSM/HSCSD For the declaration of conformity, see the product page on our website www.lancom-systems.eu Quick Reference Guide (DE/EN), Installation Guide (DE/EN), FCC leaflet (US version only) CD/DVD with magement software (LANconfig, LANmonitor) and LCOS documentation Ethernet cable, 3m (kiwi-colored connectors); ADSL cable, 3m (dark-blue connectors); ISDN cable**, 3m (light-blue connectors) Two external 3-dBi dipole dualband antennas, one internal 3-dBi dipole dualband antenna

LANCOM 1781AW Quick Reference Guide







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! US version: Antennas not part of the delivery content are a strict violation of FCC rules and must not be used.

) ISDN is not available in US version *) US version supports only Annex A/M

External power adapter; NEST 12 V/1.5 A DC/S; coaxial power connector 2.1/5.5 mm bayonet;

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