



## LANCOM 1781VAW

## Quick Reference Guide



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)

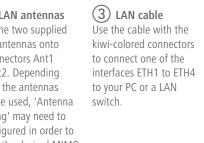


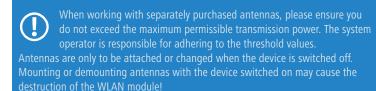
 $( \bigcirc$ Ant 2 VDSL ETH 4 ETH 3 ETH 2 FTH 1 (3) ومحمر الأ 

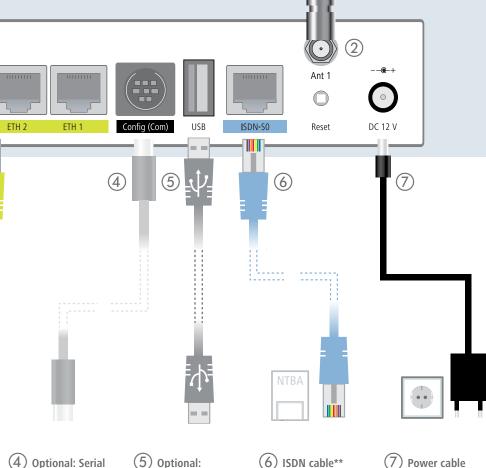
(1) VDSL/ADSL cable\* (2) WLAN antennas the dark-blue connector WLAN antennas onto to the DSL splitter from your provider. Please ensure that you carefully on how the antennas from your provider regard- Grouping' may need to applicable).

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

Connect the cable with Screw the two supplied the connectors Ant1 and Ant2. Depending follow any instructions are to be used, 'Antenna switch. ing the installation of the be configured in order to DSL splitter and NTBA (if provide the desired MIMO behavior.







(5) Optional: USB cable Connect a USB storage the USB interface. the package.

(6) ISDN cable\*\* the light-blue connecdevice or a USB printer to tors to connect the ISDN the bayonet connector USB cable not included in you wish to use ISDN.

(7) Power cable Use the ISDN cable with When connecting the cable to the device, turn interface to the NTBA if 90° clockwise until it clicks into place.



C

permanently

Flickering red

Blinking

red/orange

Flickering green ISDN data transmission

ISDN transmission error

ISDN hardware error

Use only the supplied power adapter.

LANC Systems		<b>•</b>	<b>P</b>	•	•	•	0	•		
				ETH 1	ETH 2	ETH 3	ETH 4			
	1 2 3	3	(	4)		5		6		
(1) Power			1 11	(7) vpn						
Off	Device switched off			Off		VPN co	onnection	inactive		
Green on, permanently	Device operational			Green on, permanently	active					
Blinking green/orange	Configuration password not set. Without a Blinking g configuration password, the configuration data in the device is unprotected.					Establi	shing VPI	N connections		
Blinking red	Charge or time limit reached	<u>.                                    </u>	'	6 WLAN						
Online				Off No WLAN network defined or WLAN module deactivated. The WLAN modu not transmitting beacons. Green on, At least one WLAN network is defined						
Green on, permanently	WAN connection inactive WAN connection active			permanently and WLAN module activated. The WLA module is transmitting beacons.						
Red on, permanently	WAN connection error			Green inverse flashing			Number of flashes = number of conn WLAN stations and P2P wireless con tions, followed by a pause (default).			
(3) DSL						can ind	dicate sigi	e frequency of tl nal strength ove	er the	
Off	interface deactivated							or the signal st		
Green on, permanently	DSL connection active		between the access point and the operating in client mode.     Blinking green DFS scanning or other scan proce							
Flickering green	DSL data transmission			Sinking green		1000	unning OI	saler scall pro	ccuu	
Flickering red	DSL transmission error			(5) етн	_					
Blinking	DSL hardware error			Off		No net	working	device attached		
red/orange				Green on,				etwork device of		
(4) isdn				permanently			a traffic		.pc10	
Off	interface deactivated			Flickering gree	n	Data ti	ransmissio	on		
Green on, permanently	D-channel active									
Orange on,	B-channel active									

Hardware						
Power supply	12 V DC, external power adapter (230 V); bayonet connector to secure against disconne	ction				
Power consumption	Max. ca. 14 W					
Environment	Temperature range 0–35 °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	LANCOM 1781VAW over ISDN LANCOM 1781VAW over POTS					
WAN: VDSL2	<ul> <li>VDSL2 as per ITU G.993.2; profiles 8a, 8b, 8c, 8d, 12a, 12b, 17a</li> <li>Compatible to VDSL2 from Deutsche Telekom</li> <li>Compliant to: ADSL2+ over ISDN as per ITU G.992.5 Annex B with DPBO, ADSL2 over ISDN as per ITU G.992.3/5 Annex B/J, ADSL over ISDN as per ITU G.992.1 Annex B</li> <li>Supports just one virtual connection at a time in ATM (VPI-VCI pair)</li> <li>VDSL2 as per ITU G.993.2; profiles 8a, 8b, 8c, 8d, 12a, 12b, 13</li> <li>Compliant to: ADSL2+ over POTS as ITU G.992.5 Annex A/Annex M with ADSL2 over POTS as per ITU G.992.2</li> <li>L, ADSL over POTS as per ITU G.992.2</li> <li>Supports just one virtual connection at a time in ATM (VPI-VCI pair)</li> </ul>	s per 1 DPBO, 3 Annex A 2.1 Annex A				
ETH	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 configuration.					
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					
ISDN	ISDN S <sub>o</sub> bus					
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 and provides transparent asynchronous serial-data transfer via TCP.					
Ant1, Ant2	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.					
WAN protocols						
VDSL, ADSL, Ethernet	PPPoE, PPPoA, IPoA, Multi-PPPoE, ML-PPP, PPTP (PAC or PNS) and IPoE (with or without DHCP), RIP-1, RIP-2, VLAN					
ISDN	1TR6, DSS1 (Euro-ISDN), PPP, X75, HDLC, ML-PPP, V.110/GSM/HSCSD					
Declaration of confo	ormity					
CE	EN 60950-1, EN 301489-1, EN 301489-17					
2.4 GHz WLAN	EN 300 328					
5 GHz WLAN	EN 301 893					
Wi-Fi certification	802.11a/b/g/n					
Package content						
Manual	Hardware Quick Reference (DE/EN), Installation Guide (DE/EN/FR/ES/IT/PT/NL)					
CD/DVD	Management software (LANconfig, LANmonitor, LANCAPI) and LCOS documentation					
Cable	1 Ethernet cable, 3m (kiwi-colored connectors)					
	1 VDSL/ADSL cable, 3m (dark blue connectors)					
Cable	T VDSL/ADSL Cable, SITI (dark blue connectors)					
Cable Cable**	1 ISDN cable, 3m (light-blue connectors)					
Cable**	1 ISDN cable, 3m (light-blue connectors)	nm bayone				

This product contains separate modem firmware with open-source software components. These are subject to their own licenses, in particular the General Public License (GPL). The license text for the modem firmware is available on the data medium supplied. If the respective license demands, the source files for the corresponding software components will be made available on a download server upon request. License information for the device firmware (LCOS) is available in the file LCOS-Licenses.txt on the data medium supplied.

configuration cable

You can connect the

device to a PC with a

(available separately).

configuration cable