



LANCOM 1781VA

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)

① VDSL/ADSL cable*
Connect the cable with the dark-blue connector to the DSL splitter from your provider. Please ensure that you carefully follow any instructions from your provider regarding the installation of the DSL splitter and NTBA (if applicable).

② LAN cable
Use the cable with the kiwi-colored connectors to connect one of the interfaces ETH1 to ETH4 to your PC or a LAN switch.

③ Optional: Serial configuration cable
You can connect the device to a PC with a configuration cable (available separately).

④ Optional: USB cable
Connect a USB storage device or a USB printer to the USB interface. USB cable not included in the package.

⑤ ISDN cable
Use the ISDN cable with the light-blue connectors to connect the ISDN interface to the NTBA if you wish to use ISDN.

⑥ Power cable
When connecting the cable to the device, turn the bayonet connector 90° clockwise until it clicks into place.

Use only the supplied power adapter.

SETTING UP AND CONNECTING THE DEVICE

① Power

Off	Device switched off
Green on, permanently	Device operational
Blinking green/orange	Configuration password not set. Without a configuration password, the configuration data in the device is unprotected.
Blinking red	Charge or time limit reached

② Online

Off	WAN connection inactive
Green on, permanently	WAN connection active
Red on, permanently	WAN connection error

③ DSL

Off	interface deactivated
Green on, permanently	DSL connection active
Flickering green	DSL data transmission
Flickering red	DSL transmission error
Blinking red/orange	DSL hardware error

④ ISDN

Off	interface deactivated
Green on, permanently	D-channel active
Orange on, permanently	B-channel active
Flickering green	ISDN data transmission
Flickering red	ISDN transmission error
Blinking red/orange	ISDN hardware error

⑤ ETH

Off	No networking device attached
Green on, permanently	Connection to network device operational, no data traffic
Flickering green	Data transmission

⑥ VPN

Off	VPN connection inactive
Green on, permanently	VPN connection active
Blinking green	Establishing VPN connections

Hardware		
Power supply	12 V DC, external power adapter (230 V); bayonet connector to secure against disconnection	
Power consumption	Max. ca. 14 W	
Environment	Temperature range 0 – 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		
	LANCOM 1781VA over ISDN	LANCOM 1781VA over POTS
WAN: VDSL2	<ul style="list-style-type: none">■ VDSL2 as per ITU G.993.2; profiles 8a, 8b, 8c, 8d, 12a, 12b, 17a■ Compatible to VDSL2 from Deutsche Telekom■ 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/I, ADSL over ISDN as per ITU G.992.1 Annex B■ Supports just one virtual connection at a time in ATM (VPI-VCI pair)	<ul style="list-style-type: none">■ VDSL2 as per ITU G.993.2; profiles 8a, 8b, 8c, 8d, 12a, 12b, 17a■ Compliant to: ADSL2+ over POTS as per ITU G.992.5 Annex A/Annex M with DPBO, ADSL2 over POTS as per ITU G.992.3 Annex A/L, ADSL over POTS as per ITU G.992.1 Annex A■ Supports just one virtual connection at a time in ATM (VPI-VCI pair)
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 ₀ 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.	
WLAN 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 conformity		
For the declaration of conformity, see the product page on our website www.lancom-systems.eu		
Package content		
Manual	Hardware Quick Reference (DE/EN), Installation Guide (DE/EN/FR/ES/IT/PT/NL)	
CD/DVD	CD/DVD with management software (LANconfig, LANmonitor, LANCAPI) and LCOS documentation	
Cable	1 Ethernet cable, 3m (kiwi-colored connectors)	
Cable	1 VDSL/ADSL cable, 3m (dark-blue connectors)	
Cable	1 ISDN cable, 3m (light-blue connectors)	
Adapter	All-IP adapter (only in the EU version)	
Power adapter	External power supply adapter (230 V), NEST 12 V/1.5 A DC/5, barrel connector 2.1/5.5 mm bayonet, LANCOM item no. 110723, LANCOM item no. 110829 (UK)	

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.