

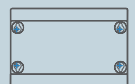


Please observe the following when setting up the device

- For devices to be operated on the desktop, please attach the adhesive rubber footpads
- Do not rest any objects on top of the device and do not stack multiple devices



- Keep the ventilation slots on the side of the device clear of obstruction
- In case of wall mounting, use the drilling template as supplied



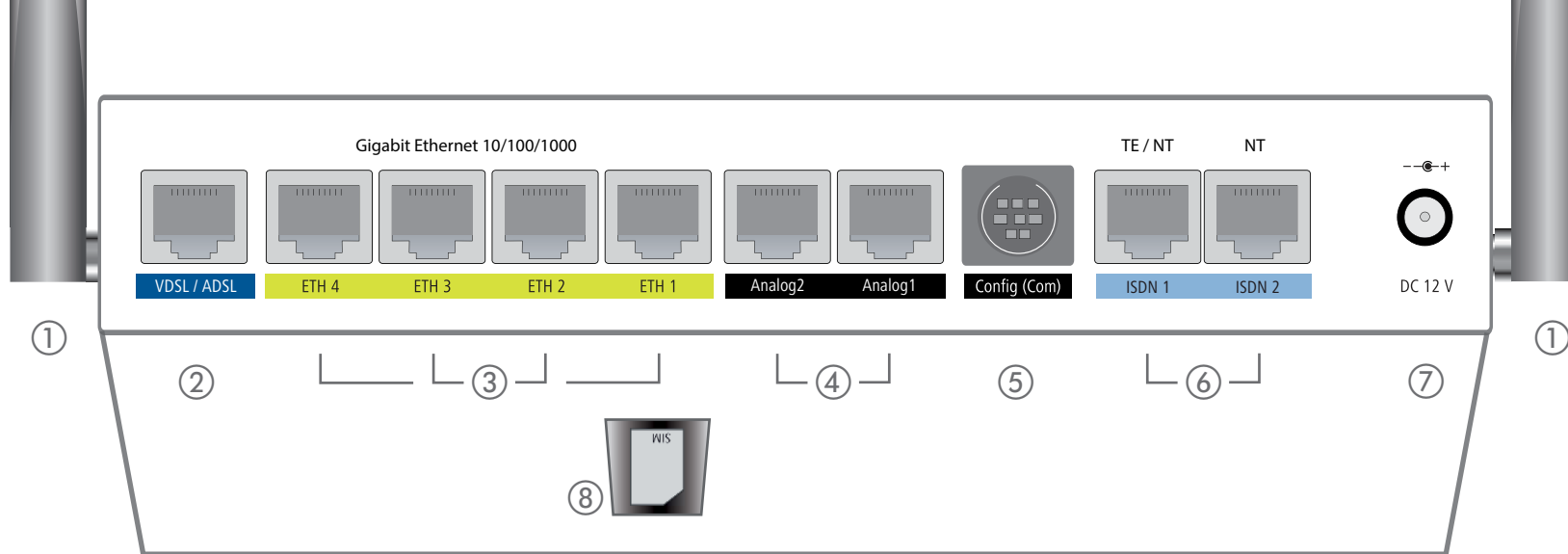
- Rack installation with the optional LANCOM Rack Mount (not supplied)



LANCOM 1783VA-4G Quick Reference Guide



LANCOM
Systems

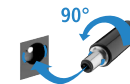


- LTE / 4G antennas**
Connect the two supplied cellular antennas to the connectors located at the device's sides.
- VDSL / ADSL interface***
Use the supplied DSL cable for the IP-based line to connect the VDSL interface and the provider's telephone socket. For more information, please contact your Internet service provider.
- Ethernet interfaces**
Use the cable with the kiwi-colored connectors to connect one of the interfaces ETH 1 to ETH 4 to your PC, an IP telephone or a LAN switch.
- Analog interfaces**
Connect analog terminal devices to the analog interfaces either directly via RJ11 or with the help of the enclosed TAE adapter.

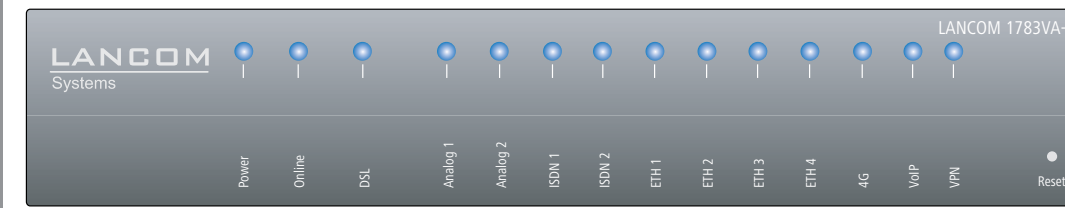


- Serial interface**
Configuring the device via the serial interface requires a serial configuration cable (available as an accessory).
- ISDN interfaces**
ISDN 1: Internal (NT) or external (TE) ISDN bus. This feature is controlled by LCOS. ISDN 2: Internal (NT) ISDN bus.

A 100-Ohm resistor for line termination is switchable in LCOS.
- Power**
When connecting the cable to the device, turn the bayonet connector 90° clockwise until it clicks into place. Use only the supplied power adapter.
- SIM card slot (bottom side of the device)**
Release the SIM-card holder and lever it upwards. Slide the SIM card into the guide slot of the SIM-card holder. Press the holder down until it clicks into place.



MOUNTING AND CONNECTING THE DEVICE



LED	State	Description	
1 Power	Off	Device switched off	
	Green, permanently*	Device operational, resp. device paired / claimed and LANCOM Management Cloud (LMC) accessible	
	Green / red, blinking	Configuration password not set. Without a configuration password, the configuration data in the device is unprotected.	
2 Online	Off	WAN connection inactive	
	Green, permanently	WAN connection active	
	Red, permanently	WAN connection error	
	3 DSL	Off	Interface deactivated
		Green, permanently	DSL connection active
		Green, flickering	DSL data transfer
4 Analog	Off	Interface deactivated	
	Green, permanently	Interface activated	
	Orange, blinking	Incoming call	
	Green, blinking	Connection active	
	5 ISDN	Off	Interface deactivated
Green, permanently		D-channel active	
Green, blinking		ISDN connected	
Red, flickering		ISDN transfer error	
Red/orange, blinking		ISDN hardware error	
Red, permanently		ISDN connection not enabled	
6 ETH	Off	No networking device attached	
	Green, permanently	Connection to network device operational, no data traffic	
7 4G	Off	Cellular interface disabled	
	Green, permanently	Connection to cellular network active	
8 VoIP	Off	No SIP accounts defined or VCM is off	
	Green, permanently	All defined and active SIP accounts (outgoing) registered successfully	
9 VPN	Off	VPN connection inactive	
	Green, permanently	VPN connection active	
10 Reset	Reset button	Operated e.g. with a paper clip -> Short press: Restart the device -> Long press: Reset the device	

Indicator	State	Description	
6 ETH	Off	No networking device attached	
	Green, permanently	Connection to network device operational, no data traffic	
	Green, flickering	Data transmission	
7 4G	Off	Cellular interface disabled	
	Green, permanently	Connection to cellular network active	
8 VoIP	Off	No SIP accounts defined or VCM is off	
	Green, permanently	All defined and active SIP accounts (outgoing) registered successfully	
	Red, permanently	Not all of the defined and active SIP accounts were registered (possibly still in process)	
	Red or green, inverse flashing	Number of currently used lines (connecting or connected)	
	9 VPN	Off	VPN connection inactive
		Green, permanently	VPN connection active
10 Reset	Reset button	Operated e.g. with a paper clip -> Short press: Restart the device -> Long press: Reset the device	

*The additional power LED statuses are displayed in 5-seconds rotation if the device is configured to be managed by the LANCOM Management Cloud.

This product contains separate open-source software components which are subject to their own licenses, in particular the General Public License (GPL). The license information for the device firmware (LCOS) is available on the device's WEBconfig interface under "Extras > License information". If the respective license demands, the source files for the corresponding software components will be made available on a download server upon request.

Hardware	LANCOM 1783VA-4G over ISDN	LANCOM 1783VA-4G over POTS
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 0–35 °C; humidity 0–95 %; non-condensing	
Housing	Robust plastic housing, rear connectors, ready for wall mounting, Kensington lock; measures 210 x 45 x 140 mm (W x H x D)	
Number of fans	One quiet fan	
Interfaces	LANCOM 1783VA-4G over ISDN	LANCOM 1783VA-4G 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 > ADSL conformity according to: ADSL2+ over ISDN as per ITU G.992.5 Annex B/J with DP80, ADSL2 over ISDN as per ITU G.992.3 Annex B, 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 > ADSL conformity according to: ADSL2+ over POTS as per ITU G.992.5 Annex A / Annex M with DP80, 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.	
ISDN 1 / ISDN 2	ISDN 1: Internal (NT) or external (TE) ISDN bus. This feature is controlled by LCOS. According to the settings, connect the light-blue ISDN cable either to the NTBA or the ISDN terminal device. ISDN 2: Internal (NT) ISDN bus. Use the light-blue ISDN cable to connect the ISDN interface to the ISDN device.	
Analog 1 / Analog 2	Use the cable of your analog devices to connect them with the analog interfaces. If necessary, use the enclosed adapter.	
Serial interface	Serial configuration interface / COM-port (8-pin mini-DIN); 9,600 - 115,200 baud, suitable for optional connection of analog / GPRS modems. Supports internal COM-port server and provides transparent asynchronous serial-data transfer via TCP.	
4G: Ant1, Ant2	Two SMA connectors for the supplied dipole rod antennas (LTE, UMTS), compatible LANCOM AirLancer antennas for 4G or 3G, or from other manufacturers. Please respect the restrictions that apply in your country when setting up an antenna system (in particular the antenna gain and transmission power).	
WAN protocols	PPPoE, PPPoA, IPoA, Multi-PPPoE, ML-PPP, PPTP (PAC or PNS) and IPoE (with or without DHCP), RIP-1, RIP-2, VLAN, GRE, L2TPv2 (LAC or LNS), IPv6 over PPP (IPv6 and IPv4/IPv6 dual stack session), IPv6oE (autoconfiguration, DHCPv6 or static)	
ISDN	DSS1 (Euro-ISDN), PPP, X75, HDLC, ML-PPP, V.110/GSM/HSCSD	
Data transmission in cellular networks	Supported standards: GPRS, EDGE, UMTS, HSPA+, LTE	
LTE	Band 1 (2100 MHz), band 3 (1800 MHz), band 7 (2600 MHz), band 8 (900 MHz), band 20 (FDD800 MHz) with MIMO	
UMTS/HSPA/HSPA+	Band 1 (2100 MHz), band 8 (900 MHz) with diversity	
EDGE/GPRS	GSM 900 (900 MHz), DCS 1800 (1800 MHz), PCS 1900 (1900 MHz)	
Max. transm. power	+24 dBm	
Declaration of Conformity	Hereby, LANCOM Systems declares that this radio equipment is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: www.lancom-systems.com/ce/	
Package content	Documentation: Quick Reference Guide (DE/EN), Installation Guide (DE/EN) Cable: 1 Ethernet cable, 3 m (kiwi-colored connectors); for ISDN: 1 DSL cable for an IP-based line, 4.25m, 1 ISDN cable, 3 m (light-blue connectors); for over POTS: 1 DSL cable, 3 m (dark-blue connectors) Adapters: 2 TAE adapters (RJ11 - TAE) Antennas: 2 LTE / 4G antennas for LTE / UMTS 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. 111301 (EU, 230 V); LANCOM item no. 111302 (UK, 230 V)	

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