

LANCOM 1784VA

Quick Reference Guide



LANCOM
Systems

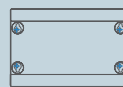


Please observe the following when setting up the device

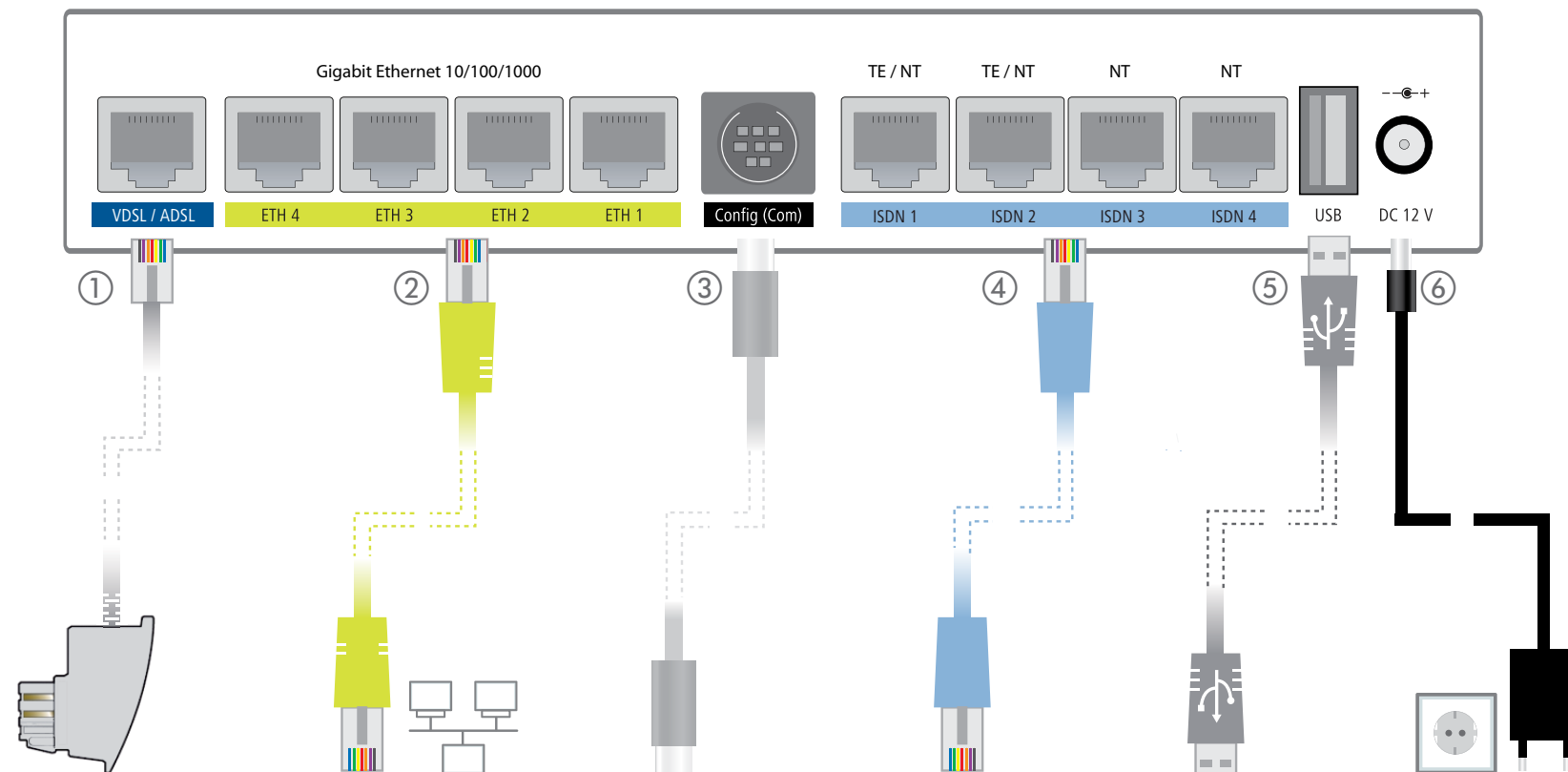
- For devices to be operated on the desktop, please attach the adhesive rubber footpads
- Do not rest any objects on top of the device and do not stack multiple devices



- 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)



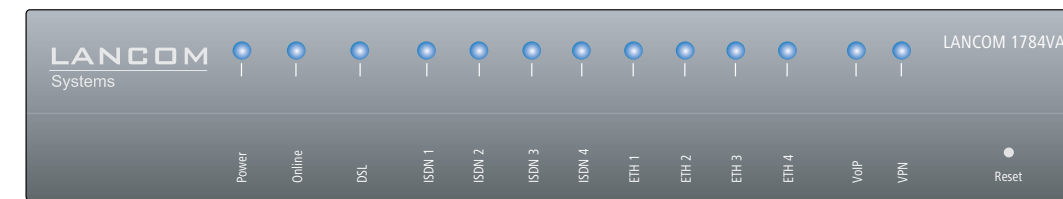
- VDSL / ADSL interface**
Use the supplied DSL cable for the IP-based line to connect the VDSL / ADSL interface and the provider's telephone socket. For more information, please contact your Internet service provider.
- Ethernet interface**
Use the cable with the green-colored connectors to connect one of the interfaces ETH 1 to ETH 4 to your PC, IP telephone or a LAN switch.
- Serial interface**
Configuring the device via the serial interface requires a serial configuration cable (available as an accessory).
- ISDN interface**
ISDN 1 + 2
Internal (NT) or external (TE) ISDN bus. This feature is controlled by LCOS.

ISDN 3 + 4
Internal (NT) ISDN bus.

A 100-Ohm resistor for line termination is switchable in LCOS.
- USB interface**
You can use the USB interface to connect a USB printer or a USB drive.
- 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.

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	No password set. Without a password the configuration data in the device is unprotected.	
	Red, blinking	Charge or time limit reached	
	1x green inverse blinking*	Connection to the LMC active, pairing OK, device not claimed	
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	
Red, flickering		DSL transfer error	
Red/orange, blinking		DSL hardware error	
④ ISDN	Off	Interface deactivated	
	Green, permanently	D-channel active	
	Green, blinking	ISDN connected	
	Red, flickering	ISDN transfer error	
	Red/orange, blinking	ISDN hardware error	
⑤ ETH	Off	No networking device attached	
	Green, permanently	Connection to network device operational, no data traffic	
	Green, flickering	Data transmission	
	⑥ VoIP	Off	No SIP accounts defined or VCM is off
		Green, permanently	All defined and active SIP accounts (outgoing) were successfully registered
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)	
⑦ VPN		Off	VPN connection inactive
	Green, permanently	VPN connection active	
	Green, blinking	VPN connecting	
	⑧ Reset	Reset switch	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.

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 1784VA over ISDN	
WAN: VDSL2	> 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 DPBO, 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)
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 server) or USB drives (FAT file system).
ISDN 1 / ISDN 2	ISDN 1+2: 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 3 / ISDN 4	ISDN 3+4: Internal (NT) ISDN bus. Use the light-blue ISDN cable to connect the ISDN device to the ISDN interface.
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.
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, GRE, L2TPv2 (LAC or LNS), IPv6 over PPP (IPv6 and IPv4/IPv6 dual stack session), IP(v6)oE (autoconfiguration, DHCPv6 or static)
ISDN	DSS1 (Euro-ISDN), PPP, X75, HDLC, ML-PPP, V.110/GSM/HSCSD
Declaration of Conformity	
Hereby, LANCOM Systems declares that this device is in compliance with Directives 2014/30/EU and 2014/35/EU. The full text of the EU declaration of conformity is available at the following internet address: www.lancom-systems.com/ce/	
Package content	
Manual	Quick Reference Guide (DE/EN), Installation Guide (DE/EN)
DVD	Data medium with management software (LANconfig, LANmonitor) and LCOS documentation
Cable	1 Ethernet cable, 3m (kiwi colored connectors); 1 DSL cable for an IP-based line, 4.25 m; 2 ISDN cable, 3m (light-blue connectors)
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)

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.