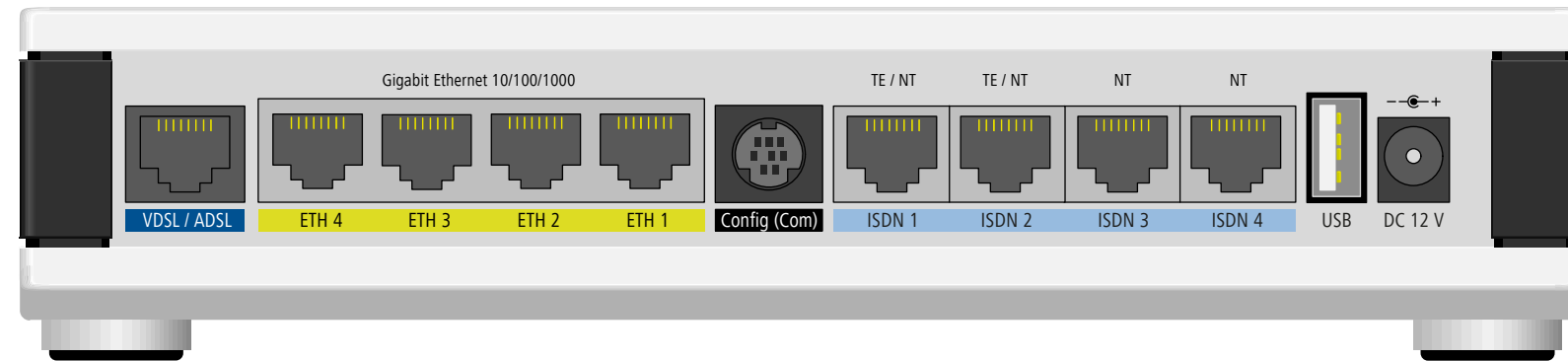


# LANCOM 1784VA

## Quick Reference Guide



**LANCOM**  
Systems



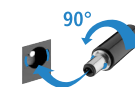
- ① **VDSL interface**  
Use the supplied DSL cable for the IP-based line to connect the VDSL interface and the provider's telephone socket. For more information, please contact your Internet service provider.
- ② **Ethernet interfaces**  
Connect one of the interfaces ETH 1 to ETH 4 to your PC or a LAN switch.
- ③ **Serial interface**  
Configuring the device via the serial interface requires a serial configuration cable (available as an accessory).



- ④ **ISDN interfaces**  
**ISDN 1 + 2**  
Internal (NT) or external (TE) ISDN-S<sub>0</sub> bus. This feature is controlled by LCOS.
- ISDN 3 + 4**  
Internal (NT) ISDN-S<sub>0</sub> bus.



- ⑤ **USB interface**  
You can use the USB interface to connect a USB printer or a USB drive.
- ⑥ **Power**  
After connecting the cable to the device, turn the connector 90° clockwise to prevent it from accidental unplugging. Use only the supplied power adapter.



To prevent the device from overvoltage damage, an overvoltage-protected power supply is strongly recommended.



- Please observe the following when setting up the device**
- > Do not rest any objects on top of the device
  - > For devices to be operated on the desktop, please attach the adhesive rubber footpads
  - > In case of wall mounting, use the drilling template as supplied

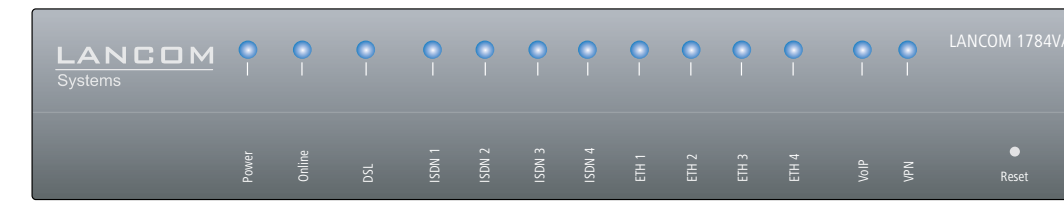


- > Keep the ventilation slots on the side of the device clear of obstruction
- > Rack installation with the optional LANCOM Rack Mount (separately available)



**Before initial startup, please make sure to take notice of the information regarding the intended use in the enclosed installation guide!**  
Operate the device only with a professionally installed power supply at a nearby power socket that is freely accessible at all times.

MOUNTING AND CONNECTING THE DEVICE



① Power	④ ISDN
Off: Device switched off	Off: Interface deactivated
Green, permanently*: Device operational, resp. device paired / claimed and LANCOM Management Cloud (LMC) accessible	Green, permanently: D-channel active
Green/red, blinking: No password set. Without a password the configuration data in the device is unprotected.	Green, blinking: ISDN connected
Red, blinking: Charge or time limit reached	Red, flickering: ISDN transfer error
1x green inverse blinking*: Connection to the LMC active, pairing OK, device not claimed	Red/orange, blinking: ISDN hardware error
2x green inverse blinking*: Pairing error, resp. LMC activation code not available	Red, permanently: ISDN connection not enabled
3x green inverse blinking*: LMC not accessible, resp. communication error	Orange, blinking: ISDN connecting
② Online	⑤ ETH
Off: WAN connection inactive	Off: No networking device attached
Green, blinking: WAN connection is established (e.g. PPP negotiation)	Green, permanently: Connection to network device operational, no data traffic
Green, permanently: WAN connection active	Green, flickering: Data transmission
Red, permanently: WAN connection error	⑥ VoIP
③ DSL	Off: No SIP accounts defined or VCM is off
Off: Interface deactivated	Green, permanently: All defined and active SIP accounts (outgoing) were successfully registered
Green, permanently: DSL connection active	Red, permanently: Not all of the defined and active SIP accounts were registered (possibly still in process)
Green, flickering: DSL data transfer	Red or green inverse flashing: Number of currently used lines (connecting or connected)
Red, flickering: DSL transfer error	⑦ VPN
Red/orange, blinking: DSL hardware error	Off: VPN connection inactive
Orange, blinking: DSL training	Green, permanently: VPN connection active
Orange, permanently: DSL sync	Green, blinking: VPN connecting
Green, blinking: DSL 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 × 45 × 140 mm (W × H × 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), IPv6) (autoconfiguration, DHCPv6 or static)
ISDN	DSS1 (Euro-ISDN), PPP, X75, HDLC, ML-PPP, V.110/GSM/HSCSD
Declaration of Conformity	
Hereby, LANCOM Systems GmbH   Adenauerstrasse 20/B2   D-52146 Wuersele, declares that this device is in compliance with Directives 2014/30/EU, 2014/35/EU, 2011/65/EU, and Regulation (EC) No. 1907/2006. The full text of the EU Declaration of Conformity is available at the following Internet address: <a href="http://www.lancom-systems.com/doc">www.lancom-systems.com/doc</a>	
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) 12 V/1.5 A DC/S; 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.