



...connecting your business

LANCOM 831A

Hardware Quick Reference

LANCOM
Systems



Please observe the following when setting up the device

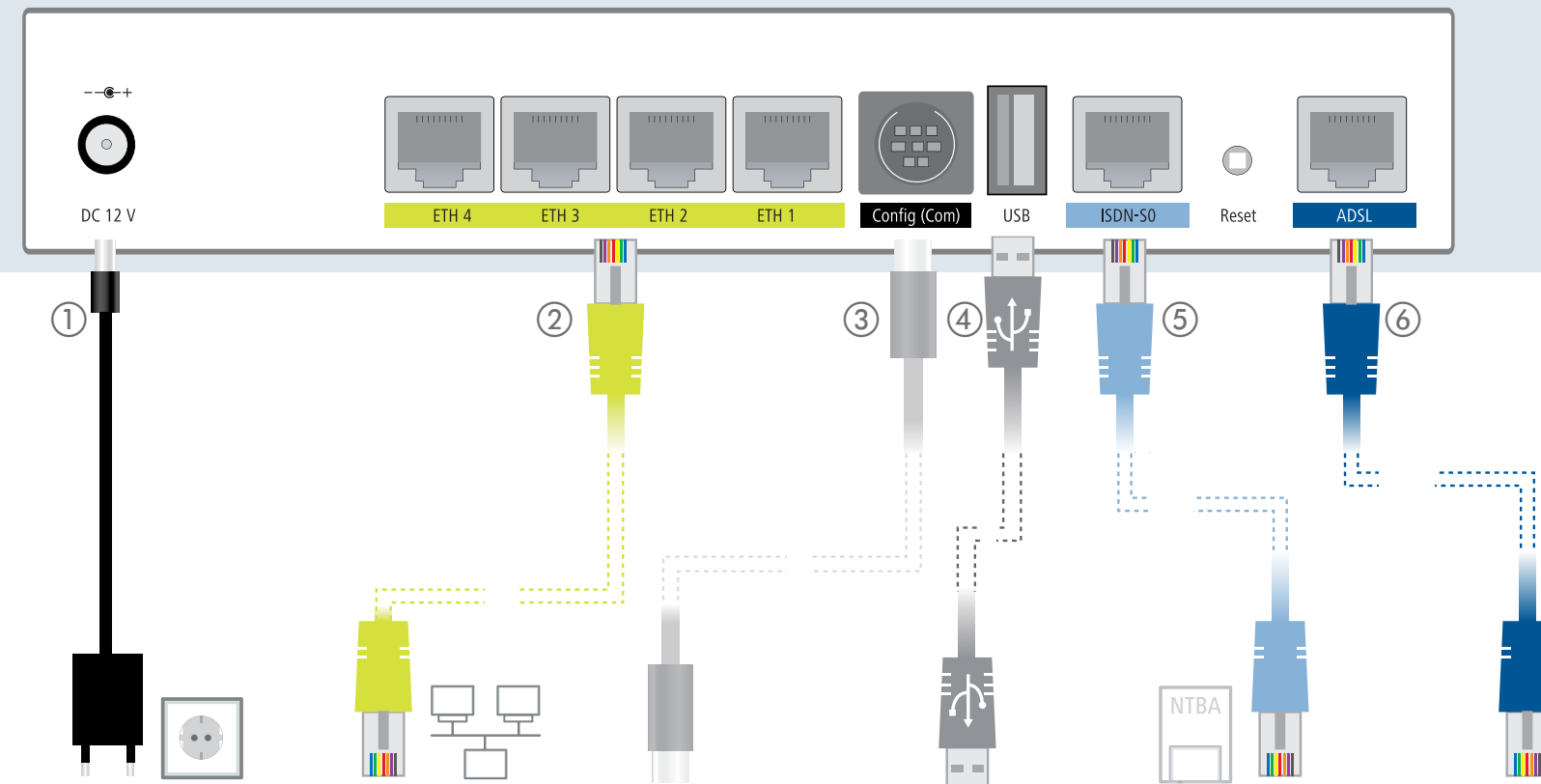
- For devices to be operated on the desktop, please attach the adhesive rubber footpads
- Do not rest any objects on top of the device



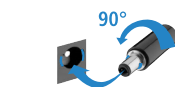
- Keep the ventilation slots on the side of the device clear of obstruction
- In case of wall mounting, use the drilling template as supplied



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



1 Power cable with power adapter:
When connecting the cable to the device, turn the bayonet connector 90° clockwise until it clicks into place.



Use only the supplied power adapter.

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

3 Optional: Serial configuration cable:
Connect the device to a PC with a configuration cable (available as accessory).

4 Optional: USB
You can use the USB interface to connect a compatible USB cellular modem, a USB printer or a USB flash drive for device configuration.

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 additionally.

6 ADSL cable:
Connect the cable with the dark-blue connectors 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).

SETTING UP AND CONNECTING THE DEVICE



1 Power	
no	Device switched off
constant green	Device operational
green blinking	Configuration password not set. Without a configuration password, the configuration data in the device is unprotected.
red blinking	Time or charge limit on online connections has been reached

2 Online	
no	WAN connection not active
constant green	WAN connection active
constant red	Error establishing the WAN connection

3 ADSL	
no	ADSL interface not active
constant green	ADSL connection operational
green flashing	ADSL data transmission
red flickering	ADSL transmission error
red/orange blinking	ADSL hardware error

5 ETH	
no	No networking device attached
constant green	Connection to network device operational, no data traffic
green flashing	Data traffic

4 ISDN	
no	ISDN interface deactivated
constant green	D-channel operational
constant orange	B-channel operational
green flashing	ISDN data transmission
red flickering	ISDN transmission error
red/orange blinking	ISDN hardware error

Hardware	
Power supply	12 V DC, external power adapter (230 V), with bayonet connector to secure against disconnection
Power consumption	Max. ca.10 W
Environment	Temperature range 5 – 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	
ADSL2	<ul style="list-style-type: none"> Compliant to: ADSL2+ as per ITU G.992.5 Annex A/Annex B/Annex J/Annex M, ADSL2 as per ITU G.992.3 Annex A/Annex B/Annex J/Annex M, ADSL as per ITU.G.992.1 Annex A/Annex B Supports one virtual ATM circuit (VPI, VCI pair) at a time
ETH	4 individual 10/100/1000 Mbps Gigabit Ethernet ports in switch-mode by default; up to three can be configured as additional WAN ports. Ethernet ports can be electrically disabled within LCOS configuration
USB	USB 2.0 Hi-Speed host port for connecting USB printers (USB print server), serial devices (COMport servers), USB data media (FAT file system), or supported UMTS USB modems
ISDN	ISDN 50 bus (BRI)
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

WAN protocols	
ADSL, Ethernet	PPPoE, Multi-PPPoE, ML-PPP, IPoA, PPPoA, 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	
CE	EN 55022, EN 55024, EN 60950

Package content	
Manual	Hardware Quick Reference (DE/EN) Installation Guide (DE/EN/FR/ES/IT/PT/NL)
CD/DVD	CD/DVD with firmware, management software (LANconfig, LANmonitor, LANCAP) and documentation
Cable	1 Ethernet cable, 3m (light-green connectors)
Cable	1 ADSL cable, 3m (light-blue connectors)
Cable	1 ISDN cable, 3m (dark-blue connectors)
Power adapter	External power adapter (230 V), NEST 12 V/1.5 A DC/S, coaxial power connector 2.1/5.5 mm bayonet, LANCOM item no. 110723 (EU), 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.

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TECHNICAL DATA