



...connecting your business

## LANCOM 831A

### Hardware Quick Reference

**LANCOM**  
Systems



#### Please observe the following when setting up the device

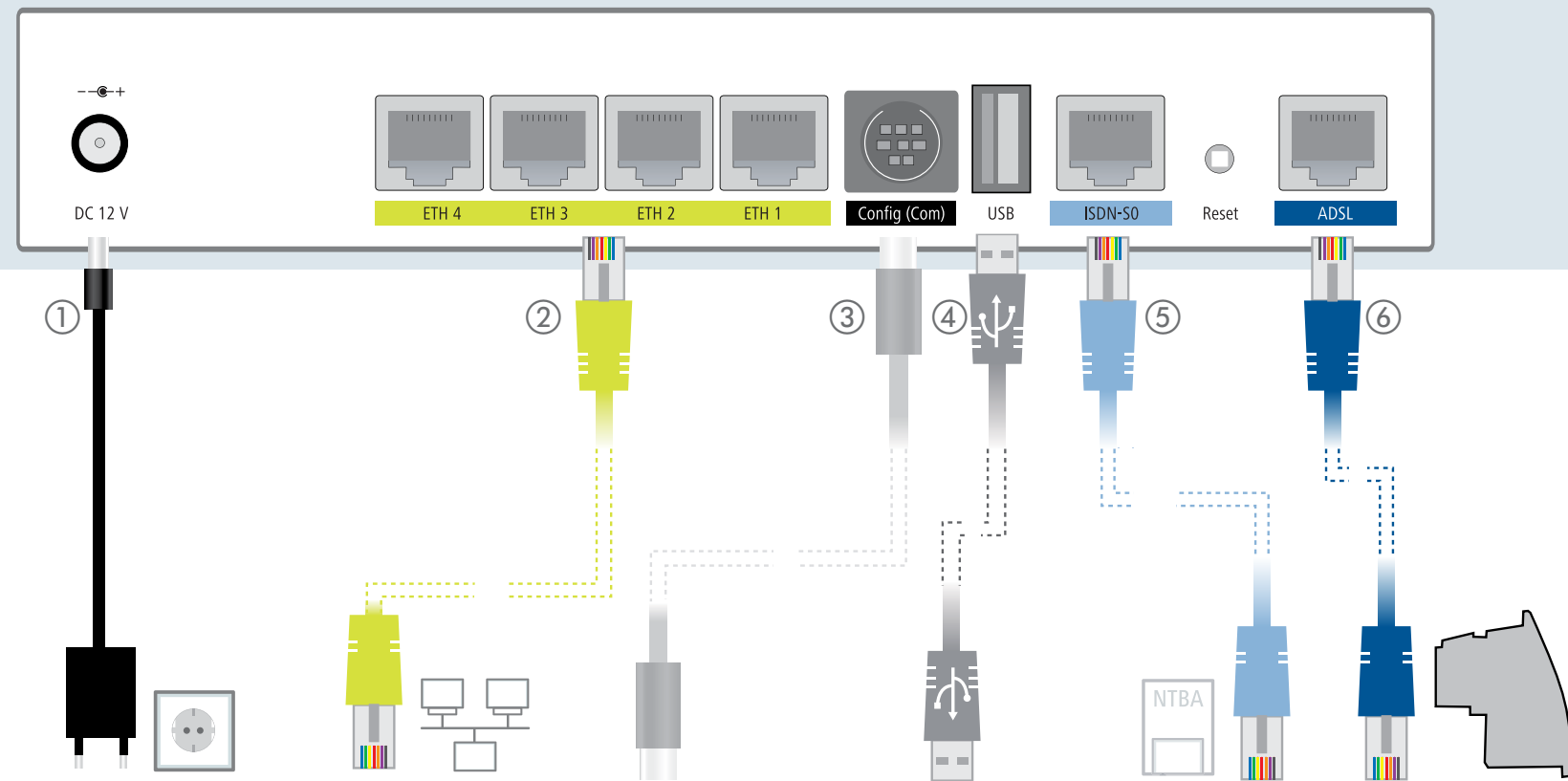
- For devices to be operated on the desktop, please attach the adhesive rubber footpads
- Do not rest any objects on top of the device



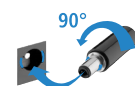
- Keep the ventilation slots on the side of the device clear of obstruction
- In case of wall mounting, use the drilling template as supplied



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



**① Power cable**  
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 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).

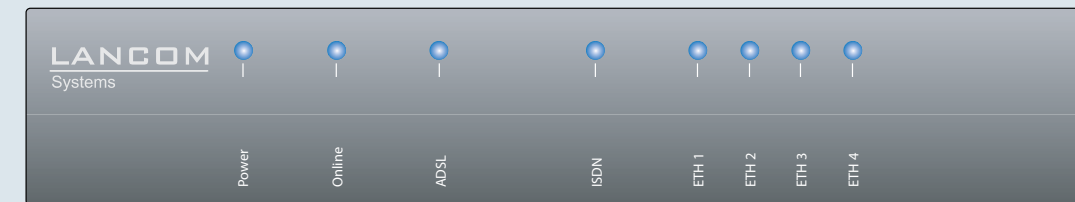
**④ Optional: USB cable**  
Connect a USB storage device or a USB printer to the USB interface. USB cable not included in the package.

**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 additionally.

**⑥ 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).

\*For operation without splitter please use the DSL cable supplied by your internet provider or the enclosed adapter. For further information please contact your internet provider.

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

⑤ ETH	
Off	No networking device attached
Green on, permanently	Connection to network device operational, no data traffic
Flickering green	Data transmission

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

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"> <li>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</li> <li>Supports one virtual ATM circuit (VPI, VCI pair) at a time</li> </ul>
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 UMS USB modems
ISDN	ISDN-S <sub>0</sub> 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**  
For the declaration of conformity, see the product page on our website [www.lancom-systems.eu](http://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, 3 m (light-green connectors)
Cable	1 ADSL cable, 3 m (light-blue connectors)
Cable	1 ISDN cable, 3 m (dark-blue connectors)
Adapter	All-IP adapter (only in the EU version)
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.

LANCOM, LANCOM Systems and LCOS are registered trademarks. All other names or descriptions used may be trademarks or registered trademarks of their owners. Subject to change without notice. No liability for technical errors and/or omissions. 110942/2014

TECHNICAL DATA