LANCOM 7100+ VPN
LANCOM 9100+ VPN
Quick Reference Guide

Please observe the following when setting up the device

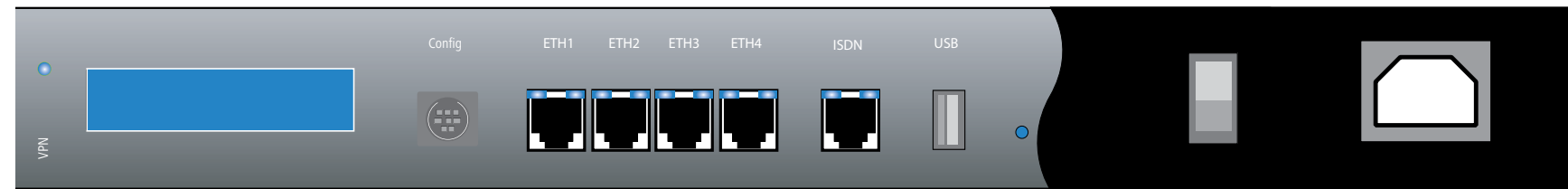> Mount the device into a 19" unit in a server cabinet.

> For devices to be operated on the desktop, please attach the adhesive rubber footpads

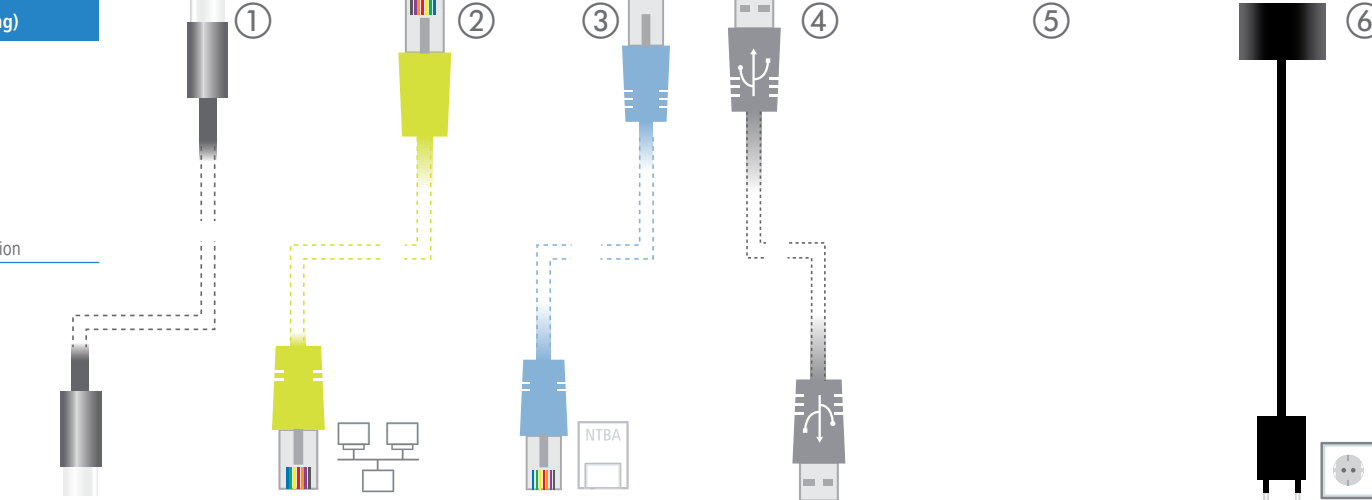> Do not rest any objects on top of the device

> Ensure that the ventilation slots at the back remain unobstructed
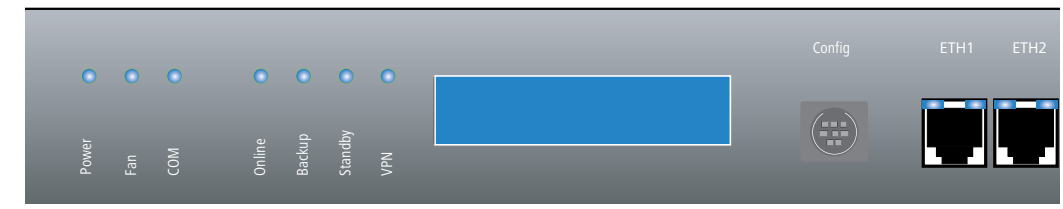

LCD display (in two lines, rotating)

> Device name
> Firmware version
> Device temperature
> Date and time
> CPU load
> Memory usage
> Number of VPN tunnels)
> Data transfer in reception direction
> Data transfer in transmission direction

① **Serial interface**
You can connect the device to a PC with a configuration cable.

② **Ethernet interface**
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 **ISDN interface**
Use the ISDN cable with the light-blue connectors to connect the ISDN interface to the NTBA if you wish to use ISDN in addition.

④ **USB interface**
You can use the USB interface to connect a USB printer or a USB flash drive for device configuration.

⑤ **Power switch**
Use this switch to turn the device on or off.

⑥ **Power connector**
Supply power to the device.
Please use the IEC power cable supplied.

⚠ Unplug the power plug from the power socket to ensure that the device is completely separated from the power supply!

MOUNTING AND CONNECTING THE DEVICE

① Power

Off	Device switched off
Green on permanently	Device operational
Green/orange blinking	Configuration password not set. Without a password the device's configuration data is unprotected.
Red blinking	Charge or time limit reached

② Fan

Green on permanently	CPU temperature OK
Orange on permanently	CPU temperature > 55°C
Red blinking	Hardware failure of the fan or CPU temperature > 60°C; additional acoustic signal

③ COM

Off	No session logged on for the serial configuration interface
Green on permanently	Serial configuration session logged on
Orange flickering	Data transmission during the configuration session

④ Online

Off	WAN connection inactive
Green on permanently	WAN connection active
Red on permanently	WAN connection error

⑧ ETH (one green and one yellow LED each)

Green off	No networking device attached
Green on permanently	Connection to network device operational, no data traffic
Green flickering	Data transmission
Yellow off	1000 Mbps
Yellow on permanently	10/100 Mbps

⑦ VPN

Off	No VPN connection active
Green on permanently	VPN connection active
Green blinking	Establishing VPN connections

⑥ Standby

Off	No VRRP activated or VRRP activated and a predefined virtual router is set as Master
Green on permanently	All defined virtual routers are on standby
Red on permanently	All virtual routers are deactivated

⑤ Backup

Off	Backup is deactivated for all of the WAN connections and virtual routers
Green on permanently	Backup is activated for at least one WAN connection or virtual router

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TECHNICAL DATA

Hardware

Power supply	Internal power supply unit (110–230 V, 50–60 Hz)
Power consumption	30 W
Environment	Temperature range 5–40°C; humidity 0–95%; non-condensing
Housing	Robust metal housing, 19" 1U with removable mounting brackets, network connectors on the front
Number of fans	1

Interfaces

ETH	4 individual 10/100/1000-Mbps Fast Ethernet ports; up to 3 ports can be switched as additional WAN ports with load balancing. 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) or USB data media (FAT file system); bi-directional data exchange is possible (max. 480 Mbps)
Serial Interface	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 and transparent asynchronous serial-data transfer via TCP.
ISDN*	ISDN S_0 bus

WAN protocols

Ethernet	PPPoE, Multi-PPPoE, ML-PPP, PPTP (PAC or PNS) and plain Ethernet (with or without DHCP), RIP-1, RIP-2, VLAN, IP
ISDN*	1TR6, DSS1 (Euro-ISDN), PPP, X75, HDLC, ML-PPP, V.110/GSM/HSCSD, Stac data compression

Declaration of conformity

The Declaration of Conformity can be found on the product page of our website www.lancom-systems.com

Package content

Manual	Quick Reference Guide (DE, EN), Installation Guide (DE/EN), FCC Documentation (only US version)
CD/DVD	Data medium with management software (LANconfig, LANmonitor) and documentation
Cable	2 Ethernet cables 3 m, ISDN cable 3m, serial configuration cable 1.5m, IEC power cord

*) ISDN is not available in US version

Specific device properties are not available to LANCOM CC devices operating in CC mode according to the "Operational User Guidance".