SECURE. NETWORKS

LANCOM

Systems

• 1



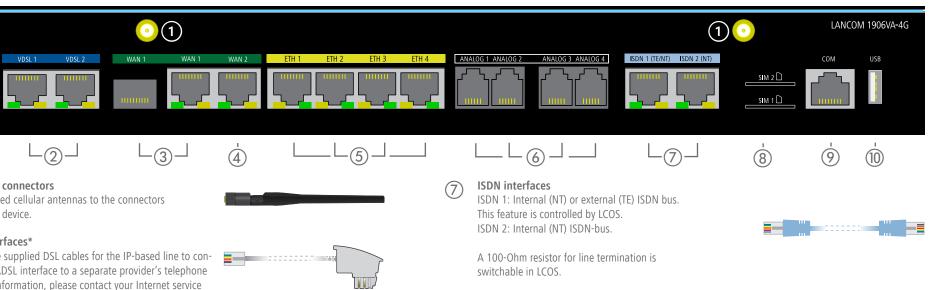
 $\overline{\mathcal{T}}$

- SIM card slots
- USB interface
- devices).
- 12

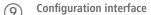
LANCOM 1906VA-4G Quick Reference Guide

					4		-5]
	1	4G / LTE antenna con Connect the supplied of at the front of the dev	cellular antennas to the c	connectors	-		
	2	nect each VDSL / ADSI	ces* pplied DSL cables for the L interface to a separate µ mation, please contact yo	provider's telephone			
		*For operation with ov cables with the dark b	ver POTS devices please u lue plugs.	use the enclosed DSL			
9	3	into the SFP port. Cho and connect it as desc modulel and cable are	nodule (e.g. 1000Base-SX ose a cable compatible w ribed in the module's do e not included. y connect the WAN 1 TP i	vith the SFP module cumentation. SFP			
	4	WAN 2 interface (TP Connect the WAN 2 in cable.) terface to a WAN moden	n using an Ethernet			
	5		e kiwi-colored connectors o ETH 4 to your PC or a L/				
Cloud-ready	6		nal devices to the analog th the help of the enclose				
LANCOM Systems			Please observe the folThe mains plug of thFor devices to be open	e device must be free	ly accessible.	the adhesive	rubber

footpads



Slide the SIM card(s) into slot SIM1 or SIM2 using the marker to ensure that the card is the right way round. Ensure that the SIM card clicks into place on insertion. To remove the card from the device, press the card lightly into the device. Let go to release the SIM card from the slot.



Use the included serial configuration cable to connect the serial interface (COM) to the serial interface of the device you want to use for configuring / monitoring.

You can use the USB interface to connect a USB printer or a USB storage device.

(1) Power connector and grounding point (device back side) Supply power to the device via the power connector. Please

use the IEC power cable supplied (separately available for WW

ATTENTION: High touch current possible! Connect to earth before connecting the power supply.



> 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 > Mount the device into a 19" unit in a server cabinet using the provided screws and mounting brackets. Pay attention to the "R" and "L" marks on the brackets for accurate mounting.

(1)(2)(4)(5) 6

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
2x green inverse blinking*	Pairing error, resp. LMC activation code not available
3x green inverse blinking*	LMC not accessible, resp. communication error

(<u>1</u>) VPN	
Off	VPN connection inactive
Green, permanently	VPN connection active
Green, flashing	VPN connecting

(1)	VolP
\sim	

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)
1 4G	
Off	Cellular interface disabled
Green,permanently	Connection to cellular network active
Green, flickering	Cellular data transmission

1 2	
Green, flickering	Cellular data transmission
Orange, permanently	Logon to cellular network successful
Orange, blinking	Logging on to cellular network
Red, permanently	Hardware error / module unavailable
Red / green, blinking	SIM card error (PIN)
Pod / orange blinking	Uploading module firmware

Red / orange, blinking Uploading module firmware

*) The additional power LED statuses are displayed in 5-seconds rotation if the device is configured to be managed by the LANCOM Management Cloud.

RESET	
	short prose . Destart the device
set button	short press > Restart the device long press > Reset the device
) VDSL 1 / VDSL 2	
f	Interface deactivated
een, blinking	DSL connecting
een, pemanently	DSL connection active
een, flickering	DSL data transmission
een / orange, flickering	DSL transmission error
een / orange, blinking ichronously	DSL hardware error
ange, blinking	DSL training
ange, permanently	DSL sync
) WAN 1 / WAN 2	
een, orange off	No networking device connected
een, permanently	Connection to network device operational, no data traffic
een, flickering	Data transmission
ange off	1000 Mbps
ange, permanently	10 / 100 Mbps
) ETH 1 - ETH 4	
een, orange off	No networking device connected
een, permanently	Connection to network device operational, no data traffic
een, flickering	Data transmission
ange off	1000 Mbps
ange, permanently	10 / 100 Mbps
) ISDN 1 (TE/NT) / IS	DN 2 (NT)
f	Interface deactivated
een, permanently	D-channel active
een, blinking	ISDN connection active
ange, blinking	ISDN connecting
en / orange, blinking	ISDN hardware error
nchronously	

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.

Hardware	
Power supply	Internal power supply unit (100–240 V, 50-60 Hz)
Power consumption	Max. 23 W
Environment	Temperature range 0–40 °C, humidity 0–95 %; non-
Housing	Robust metal housing, 1 HU with mounting brackets
Number of fans	None; fanless design, no rotating parts, high MTBF
Interfaces	None, famess design, no rotating parts, nigh wrbi
VDSL 1 / VDSL 2	 VDSL2 as per ITU G.993.2; profiles 8a, 8b, 8c, 8d, Compatible to VDSL2 from Deutsche Telekom AG VDSL2 vectoring as per ITU G.993.5 ADSL conformity according to: ADSL2+ over ISDN as per ITU G.992.5 Annex B /J ADSL2 over ISDN as per ITU G.992.1 Annex B (over ADSL over ISDN as per ITU G.992.1 Annex B (over Supports just one virtual connection at a time in A
WAN 1 / WAN 2	WAN 1 SFP: Compatible with optional LANCOM SFP configured as a LAN port. WAN 1 / WAN 2 TP: 10 / 100 / 1000 Base-TX, autose (WAN 2), auto node hub
ETH1 - ETH 4	4 individual ports, 10 / 100 / 1000 Mbps Gigabit Eth Up to 3 ports can be operated as additional WAN po the LCOS configuration.
Analog 1 - Analog 4	Use the cables of your analog devices to connect the the enclosed adapters.
ISDN 1 / ISDN 2	ISDN 1: Internal (NT) or external (TE) ISDN bus. This settings, connect the light-blue ISDN cable either to ISDN 2: Internal (NT) ISDN bus. Use the light-blue IS interface.
Config (Com) / V.24	Serial configuration interface / COM-port: 9,600 - 1
USB	USB 2.0 hi-speed host port for connecting USB print server) or USB drives (FAT file system)
4G	Two SMA connectors for the supplied dipole rod ant AirLancer antennas for 4G, or from other manufactu in your country when setting up an antenna system power).
WAN protocols	
VDSL, ADSL, Ethernet	PPPoE, PPPoA, IPoA, Multi-PPPoE, ML-PPP, PPTP (PA RIP-1, RIP-2, VLAN, GRE, EoGRE, L2TPv2 (LAC or LN session), IP(v6)oE (autoconfiguration, DHCPv6 or sta
ISDN	DSS1 (Euro-ISDN), PPP, X75, HDLC, ML-PPP, V.110/G
Data transmission in o	cellular networks
Supported standards	UMTS, HSxPA, HSPA+, LTE, LTE Advanced
Supported cellular	Band 1 (2100 MHz), band 2 (1900 MHz), band 3 (18
network bands	band 5 (800 MHz), band 7 (2600 MHz), band 8 (900 band 13 (700 MHz), band 20 (800 MHz), band 25 (7 band 29 (700 MHz), band 30 (2300 MHz), band 41
Max. transmission power	+23 dBm
Declaration of Confor	mity
	s declares that this radio equipment is in compliance v is available at the following internet address: www.l
Package content	
Documentation	Quick Reference Guide (DE/EN), Installation Guide (D
	, , , , , , , , , , , , , , , , , , , ,



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SIM

n-condensing

ts for 19" installation, W 345 x H 44 x D 253 mm)

d, 12a, 12b, 17a

/J with DPBO (over POTS: Annex A/Annex M),

over POTS: Annex A/L),

er POTS: Annex A)

ATM (VPI-VCI pair) per modem

P modules. Set as a WAN port ex-factory, can be

osensing full duplex (WAN 1) / autosensing

thernet, by default set to switch mode. ports. Ethernet ports can be electrically disabled in

hem with the analog interfaces. If necessary, use

s feature is controlled by LCOS. According to the o the NTBA or the ISDN terminal device. ISDN cable to connect the ISDN device to the ISDN

115,200 baud

nters (USB print server), serial devices (COM-port

ntennas (LTE, UMTS), compatible LANCOM turers. Please respect the restrictions which apply n (in particular the antenna gain and transmission

PAC or PNS) and IPoE (with or without DHCP), NS), IPv6 over PPP (IPv6 and IPv4/IPv6 dual stack

GSM/HSCSD

1800 MHz), band 4 (2100 MHz),

00 MHz), band 12 (700 MHz),

(1900 MHz), band 26 (800 MHz),

I (2500 MHz)

e with Directive 2014/53/EU. The full text of the EU lancom-systems.com/ce/

(DE/EN)

for over ISDN: 2 DSL cables for an IP-based line, 4.25 m; 1 ISDN cable, 3 m (light-blue connectors); for over POTS: 2 DSL cables, 3 m (dark-blue connectors);

1 Ethernet cable, 3 m (kiwi colored connectors); 1 IEC power cord 230 V (not for WW devices)

Two LTE / 4G antennas for LTE / UMTS

4 TAE adapters (RJ11 - TAE)

Cables

Antennas

Adapters

Mounting brackets Two 19" brackets for rack mounting