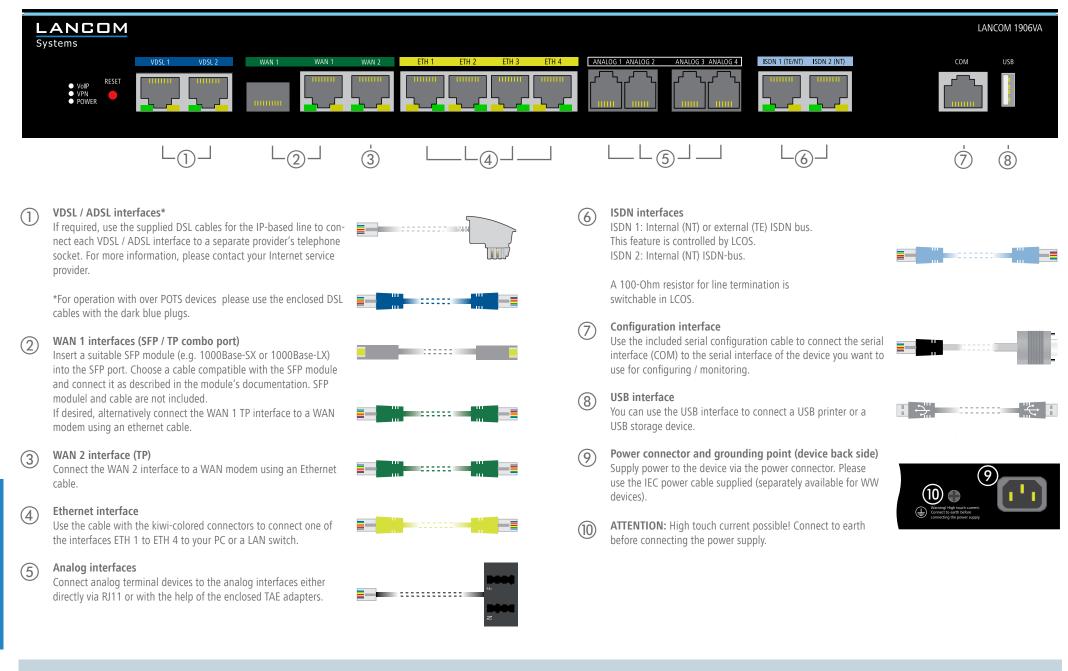
SECURE. NETWORKS.



	_	cable.
	4	Ethernet interface Use the cable with th the interfaces ETH 1 t
Cloud-ready	5	Analog interfaces Connect analog termi directly via RJ11 or w







Please observe the following when setting up the device > The mains plug of the device must be freely accessible.

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



) VDSL 1 / VDSL 2

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
1 VPN	
Off	VPN connection inactive
Green, permanently	VPN connection active
Green, flashing	VPN connecting
1 VolP	
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 account were registered (possibly still in process)
Red or green, inverse flashing	Number of currently used lines (connecting or connected)
2 RESET	
Reset button	short press > Restart the device

Off	Interface deactivated
Green, blinking	DSL connecting
Green, permanently	DSL connection active
Green, flickering	DSL data transfer
Green / orange, flickering	DSL transfer error
Green / orange, blinking synchronously	DSL hardware error
Orange, blinking	DSL training
Orange, permanently	DSL sync
④ WAN 1 / WAN 2	
Green, orange off	No networking device connected
Green, permanently	Connection to network device operational, no data traffic
Green, flickering	Data transmission
Orange off	1000 Mbps
Orange, permanently	10 / 100 Mbps
(5) ETH 1 - ETH 4	
Green, orange off	No networking device connected
Green, permanently	Connection to network device operational, no data traffic
Green, flickering	Data transmission
Orange off	1000 Mbps
Orange, permanently	10 / 100 Mbps
(5) ISDN 1 (TE/NT) / I	SDN 2 (NT)
Off	Interface deactivated
Green, permanently	D-channel active
Green, blinking	ISDN connection active
Orange, blinking	ISDN connecting
Green / orange, blinking synchronously	ISDN hardware error
Orange, permanently	Connection inactive

Hardware	
Power supply	Internal power supply unit (100–240 V, 50-60 Hz)
Power consumption	Max. 19 W
Environment	Temperature range 0-40 °C, humidity 0-95 %; non-condensing
Housing	Robust metal housing, 1 HU with mounting brackets for 19" installation, 345 x 44 x 253 mm (W x H x D)
Number of fans	None; fanless design, no rotating parts, high MTBF
Interfaces	
VDSL 1 / VDSL 2	 > VDSL2 as per ITU G.993.2; profiles 8a, 8b, 8c, 8d, 12a, 12b, 17a > 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 with DPBO (over POTS: Annex A/Annex M), ADSL2 over ISDN as per ITU G.992.3 Annex B (over POTS: Annex A/L), ADSL over ISDN as per ITU G.992.1 Annex B (over POTS: Annex A) > Supports just one virtual connection at a time in ATM (VPI-VCI pair) per modem
WAN 1 / WAN 2	WAN 1 SFP: Compatible with optional LANCOM SFP modules. Set as a WAN port ex-factory, can be configured as a LAN port. WAN 1 / WAN 2 TP: 10 / 100 / 1000 Base-TX, autosensing full duplex (WAN 1) / autosensing (WAN 2), auto node hub
ETH1 - ETH 4	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.
Analog 1 - Analog 4	Use the cables of your analog devices to connect them with the analog interfaces. If necessary, use the enclosed adapters.
ISDN 1 / ISDN 2	ISDN 1: 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 2: Internal (NT) ISDN bus. Use the light-blue ISDN cable to connect the ISDN device to the ISDN interface.
Config (Com) / V.24	Serial configuration interface / COM-port: 9,600 - 115,200 baud
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)
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, EoGRE, L2TPv2 (LAC or LNS), IPv6 over PPP (IPv6 and IPv4/IPv6 dual stack session), IP(v6)oE (autoconfiguration, DHCPv6 or static)
ISDN	DSS1 (Euro-ISDN), PPP, X75, HDLC, ML-PPP, V.110/GSM/HSCSD
Declaration of Con	formity
	ms declares that this device is in compliance with Directives 2014/30/EU and 2014/35/EU. leclaration of conformity is available at the following internet address: om/ce/
Package content	
Documentation	Quick Reference Guide (DE/EN), Installation Guide (DE/EN)
Cables	for over ISDN: 2 DSL cables for an IP-based line, 4.25 m; 1 ISDN cable, 3 m (light-blue connectors);

Package content	
Documentation	Quick Refe
Cables	for over IS
	for over P
	1 Ethernet
Adapters	4 TAE ada
Mounting brackets	Two 19" b

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.

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ng brackets.		

> 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 mounti

Pay attention to the "R" and "L" marks on the brackets for accurate mounting.

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

POTS: 2 DSL cables, 3 m (dark-blue connectors);

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

apters (RJ11 - TAE)

brackets for rack mounting