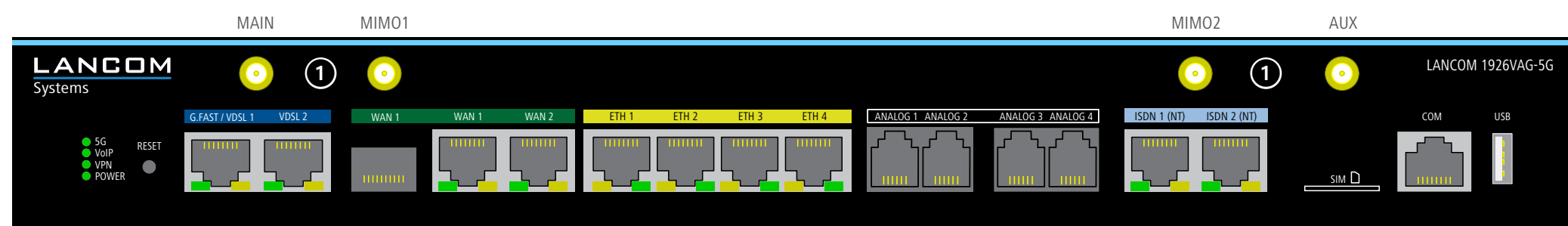


SECURE. NETWORKS.



**1 5G antenna connectors**  
Connect the supplied cellular antennas to the connectors MAIN / AUX or MIMO1 / MIMO2 at the front of the device.

**2 G.FAST / VDSL / ADSL interfaces\***  
If required, use the supplied DSL cables for the IP-based line to connect each G.FAST / VDSL / ADSL interface to a separate provider's telephone socket. For more information, please contact your Internet service provider.  
\* Please use the appropriate cables depending on the design

**3 WAN 1 interfaces (SFP / TP combo port)**  
Insert a suitable SFP module (e.g. 1000Base-SX or 1000Base-LX) into the SFP port. Choose a cable compatible with the SFP module and connect it as described in the module's documentation. SFP module and cable are not included.  
If desired, alternatively connect the WAN 1 TP interface to a WAN modem using an ethernet cable.

**4 WAN 2 interface (TP)**  
Connect the WAN 2 interface to a WAN modem using an Ethernet cable.

**5 Ethernet interface**  
Use the cable with the kiwi-colored connectors to connect one of the interfaces ETH 1 to ETH 4 to your PC or a LAN switch.

**6 Analog interfaces**  
Connect analog terminal devices to the analog interfaces either directly via RJ11 or with the help of the enclosed TAE adapters.

**7 ISDN interfaces**  
ISDN 1: Internal (NT) ISDN bus  
ISDN 2: Internal (NT) ISDN-bus  
A 100-Ohm resistor for line termination is switchable in LCOS.

**8 SIM card slot**  
Slide the SIM card into the SIM card slot 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.

**9 Configuration interface**  
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.

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

**11 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 devices).

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



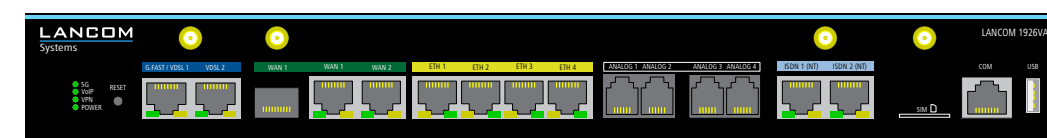
**Please observe the following when setting up the device**

- > The mains plug of the device must be freely accessible.
- > For devices to be operated on the desktop, please attach the adhesive rubber footpads

- > 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.

Before initial startup, please make sure to take notice of the information regarding the intended use in the enclosed installation guide!  
Operate the device only with a professionally installed power supply at a nearby power socket that is freely accessible at all times.

MOUNTING AND CONNECTING THE DEVICE



1 5G / VoIP / VPN / POWER	2 RESET	3 G.FAST / VDSL 1 / VDSL 2	4 WAN 1 / WAN 2	5 ETH 1 - ETH 4	6 ISDN 1 (NT) / ISDN 2 (NT)
<b>5G</b> Off Cellular interface disabled Green, permanently Connection to cellular network active 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) Red / orange, blinking Uploading module firmware  <b>VoIP</b> 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)  <b>VPN</b> Off VPN connection inactive Green, permanently VPN connection active Green, flashing VPN connecting  <b>POWER</b> 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.  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 Orange, permanently Connection inactive	Reset button Short press > Restart the device Long press > Reset the device	Off Interface deactivated Green, blinking DSL connecting Green, permanently DSL connection active Green, flickering DSL data transmission Green / orange, flickering DSL transmission error Red / orange, blinking DSL hardware error Orange, blinking DSL training Orange, permanently DSL sync	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	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	Off Interface deactivated Green, permanently D-channel active Green, blinking ISDN connection active Orange, blinking ISDN connecting Green / orange, blinking ISDN hardware error Orange, permanently Connection inactive

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

<b>Hardware</b>	
Power supply	Internal power supply unit (100–240 V, 50-60 Hz)
Power consumption	Max. 38 W
Environment	Temperature range 0–40 °C, humidity 0–95 %; non-condensing
Housing	Robust metal housing, 1 HU with mounting brackets for 19" installation, W 345 x H 44 x D 253 mm)
Number of fans	1 quiet fan

<b>Interfaces</b>	
G.FAST / VDSL 1 / VDSL 2	> G.FAST according to ITU G.9700 and G.9701, profiles 106a, 212a > VDSL2 according to ITU G.993.2, profiles Ba, 8b, 8c, 8d, 12a, 12b, 17a, 35b > VDSL supervectoring according to ITU G.993.2 (Annex Q) > VDSL2 vectoring: according to ITU G.993.5 (G.Vector) > Compatible with VDSL2 from Deutsche Telekom > Compatible with the U-R2 connection of Deutsche Telekom (1TR112) > ADSL2+ over ISDN according to ITU G.992.5 Annex B/J with DPBO, ITU G.992.3 and ITU G.992.1 > ADSL2+ over POTS according to ITU G.992.5 Annex A/M with DPBO, ITU G.992.3 and ITU G.992.1 > Supports only one virtual connection in ATM (VPI-VCI pair) at a time > Automatic detection of Deutsche Telekom VDSL connections with VLAN ID 7
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, autosenesing full duplex (WAN 1) / autosenesing (WAN 2), auto node hub 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.
ETH1 - ETH 4	Use the cables of your analog devices to connect them with the analog interfaces. If necessary, use the enclosed adapters. ISDN 1: Internal (NT) ISDN bus. Connect the ISDN interface to an ISDN cable and the ISDN device. ISDN 2: Internal (NT) ISDN bus. Connect the ISDN interface to an ISDN cable and the ISDN device.
Analog 1 - Analog 4	Serial configuration interface / COM-port: 9,600 - 115,200 baud 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)
5G	Four SMA connectors for the supplied dipole rod antennas, compatible LANCOM AirLancer antennas for 5G, 4G, or from other manufacturers. Please respect the restrictions which apply in your country when setting up an antenna system (particularly antenna gain / transmission power).

<b>WAN protocols</b>	
G.FAST, VDSL, ADSL, Ethernet	PPPoE, 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), IPv6v6 (autoconfiguration, DHCPv6 or static)
ISDN	DSS1 (Euro-ISDN), PPP, X75, HDLC, ML-PPP, V.110/GSM/HSCSD

<b>Data transmission in cellular networks - supported standards and power (dBm)</b>	
LTE / LTE Advanced	Band 1: 24.0; band 3: 24.8; band 7: 24.8; band 8: 24.0; band 20: 24.0; band 34: 24.0; band 38: 24.8; band 40: 24.8; band 42: 24.8
5G NR	n1: 24.0; n3: 24.0; n28: 24.0; n41: 24.0; n77: 24.5; n78: 24.5

<b>Declaration of Conformity</b>	
Hereby, LANCOM Systems GmbH   Adenauerstrasse 20/B2   D-52146 Wuerselen, declares that this device is in compliance with Directives 2014/30/EU, 2014/53/EU, 2014/35/EU, 2011/65/EU, and Regulation (EC) No. 1907/2006. The full text of the EU Declaration of Conformity is available at the following Internet address: <a href="http://www.lancom-systems.com/doc/">www.lancom-systems.com/doc/</a>	

<b>Package content</b>	
Documentation	Quick Reference Guide (DE/EN), Installation Guide (DE/EN)
Cables	2 DSL cables for IP-based connection, 4.25 m, or 2 DSL cables, 3 m (dark blue connectors), depending on the version; 1 Ethernet cable, 3 m (kiwi colored connectors); 1 IEC power cord 230 V (not for WW devices)
Antennas	Four 5G/4G antennas for 5G/LTE
Adapters	4 TAE adapters (RJ11 - TAE)
Mounting brackets	Two 19" brackets for rack mounting

## LANCOM 1926VAG-5G Quick Reference Guide

