

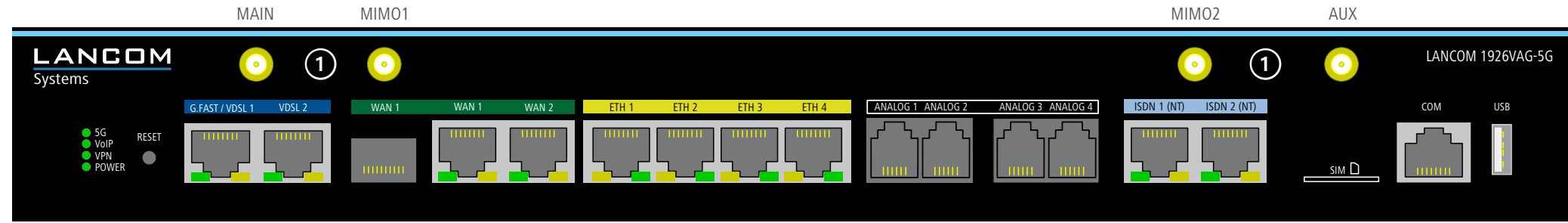
LANCOM 1926VAG-5G

Quick Reference Guide



LANCOM
Systems

SECURE. NETWORKS.



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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.



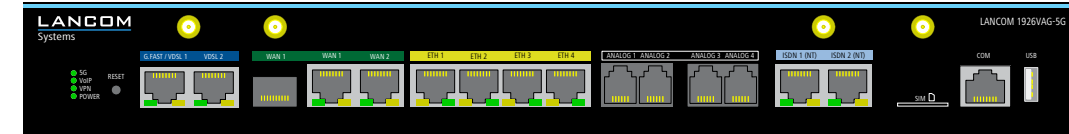
Please observe the following when setting up the device

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

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.

- > 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.

MOUNTING AND CONNECTING THE DEVICE



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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)**

5G
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

VoIP
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)

VPN
Off VPN connection inactive
Green, permanently VPN connection active
Green, flashing VPN connecting

POWER
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.

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
Green / 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

Off Interface deactivated
Green, permanently D-channel active
Green, blinking ISDN connection active
Orange, blinking ISDN connecting
Green / orange, blinking ISDN hardware error
synchronously
Orange, permanently Connection inactive

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.

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

Hardware	
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
Interfaces	
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 8a, 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, 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) 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.
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)
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).
WAN protocols	
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), IP(v6)oE (autoconfiguration, DHCPv6 or static)
ISDN	DSS1 (Euro-ISDN), PPP, X75, HDLC, ML-PPP, V.110/GSM/HSCSD
Data transmission in cellular networks - supported standards and power (dBm)	
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;
5G NR	n1: 24.0; n3: 24.0; n28: 24.0; n41: 24.0; n77: 24.5; n78: 24.5
Declaration of Conformity	
Hereby, LANCOM Systems GmbH Adenauerstrasse 20/B2 D-52146 Wuersele, 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: www.lancom-systems.com/doc/	
Package content	
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