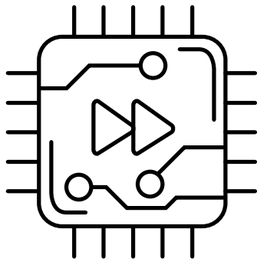
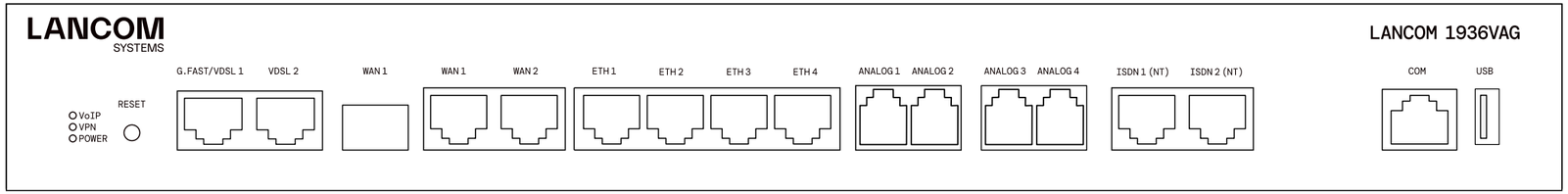
Mounting & connecting

# Hardware Quick Reference

# LANCOM 1936VAG






① ② ③ ④ ⑤ ⑥ ⑦ ⑧

① **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.

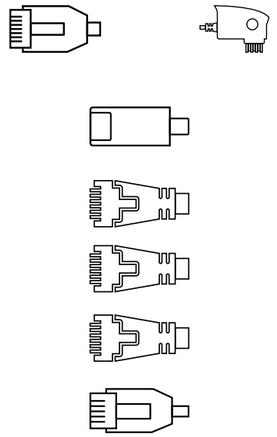
* Please use the appropriate cables depending on the design

② **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 modulel and cable are not included.
If desired, alternatively connect the WAN 1 TP interface to a WAN modem using an ethernet cable.

③ **WAN 2 interface (TP)**
Connect the WAN 2 interface to a WAN modem using an Ethernet cable.

④ **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.

⑤ **Analog interfaces**
Connect analog terminal devices to the analog interfaces either directly via RJ11 or with the help of the enclosed TAE adapters.



⑥ **ISDN interfaces**
ISDN 1: Internal (NT) ISDN bus.
ISDN 2: Internal (NT) ISDN bus.

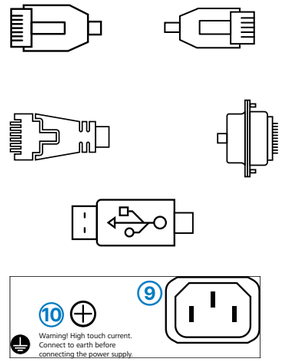
A 100-Ohm resistor for line termination is switchable in LCOS.

⑦ **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.

⑧ **USB interface**
You can use the USB interface to connect a USB printer or a USB storage device.

⑨ **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).

⑩ **ATTENTION:** High touch current possible! Connect to earth before connecting the power supply.




**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.**

**The power plug of the device must be freely accessible.**

**Please note that support for third-party accessories is not provided.**

**Please observe the following when setting up the device**
→ 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 all ventilation slots 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.

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LED description & technical details

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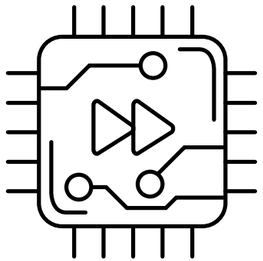

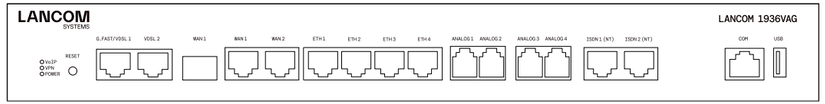


A B C D E F

## A VoIP / VPN / POWER

| | |
|---|---|
| **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. |
| 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 |

## B RESET

| | |
|---|---|
| Reset button | short press > Restart the device<br>long press > Reset the device |

## C G.FAST / VDSL 1 / VDSL 2

| | |
|---|---|
| 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 |

## D WAN 1 / WAN 2

| | |
|---|---|
| Green, orange off | No networking device connected |
| Green, permanently | Connection to network device operational, no data transmission |
| Green, flickering | Data transmission |
| Orange off | 1000 Mbps |
| Orange, permanently | 10 / 100 Mbps |

## E 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 |

## F ISDN 1 (NT) / ISDN 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. 34 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 × 44 × 253 mm (W x H x D) |
| Number of fans | 1 quiet fan |
| **Interfaces** | |
| G.FAST / VDSL 1 / VDSL2<br>WAN 1 / WAN 2<br>ETH 1 - ETH 4<br>Analog 1 - Analog 4<br>ISDN 1 / ISDN 2<br>Config (COM) / V.24<br>USB | Detailed interface specifications can be found in the device data sheet after entering the device name at www.lancom-systems.com/downloads. |
| **Package content** | |
| Cables | 2 DSL cables for IP-based connection, 4.25 m, or<br>2 DSL cables, 3 m (dark blue connectors), depending on the version;<br>1 Ethernet cable, 3 m (kiwi colored connectors);<br>1 IEC power cord 230 V (not for WW devices) |
| Adapters | 4 TAE adapters (RJ11 - TAE) |
| Mounting brackets | Two 19" brackets for rack 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.

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.

Hereby, LANCOM Systems GmbH | Adenauerstrasse 20/B2 | D-52146 Wuerselen, declares that this device is in compliance with Directives 2014/30/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

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