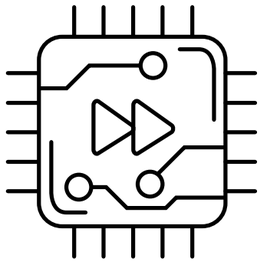
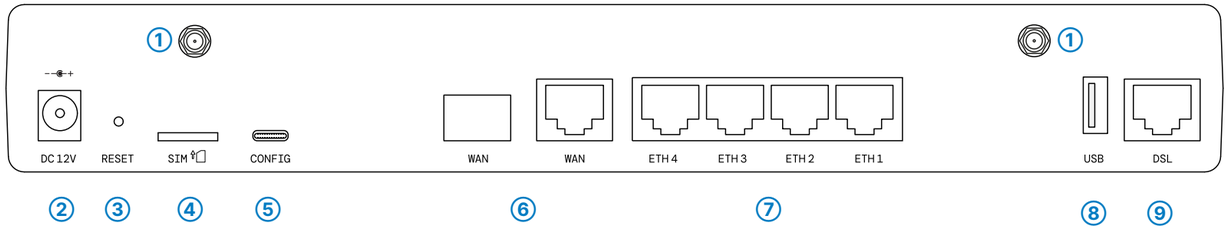
# Hardware Quick Reference

# LANCOM 1800VAW-4G






**1 4G antenna connectors**
Screw the supplied mobile radio antennas to the appropriate connectors.

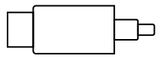
**2 Power supply connection socket**
Use only the supplied power adapter!

**3 Reset button**
Short press > device restart
Long press > device reset


**4 Micro 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.

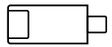
To remove the card from the device, press the card lightly into the device. Let go to release the SIM card from the slot.

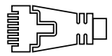
**5 Serial USB-C configuration interface**
A USB-C cable can be used for optional configuration of the device on the serial console. (cable not included)



**6 WAN interfaces (SFP / TP combo port)**
Insert a suitable LANCOM SFP module (e.g. 1000Base-SX or 1000Base-LX) into the WAN SFP interface. Choose a cable compatible with the SFP module and connect it as described in the SFP module's mounting instructions www.lancom-systems.com/SFP-module-MI (SFP module and cable are not included).

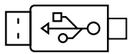
If desired, alternatively connect the WAN TP interface to a WAN modem using an Ethernet cable.



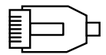


**7 Ethernet interfaces**
Use the cable with the kiwi-colored connectors to connect one of the interfaces ETH 1 to ETH 4 to your PC or a LAN switch.

**8 USB interface**
Connect a USB data medium or a USB printer to the USB interface. (cable not supplied)



**9 VDSL / ADSL interface**
Connect the VDSL interface and the TAE socket of the provider using the enclosed DSL cable for the IP-based connection. (For more information, please contact your Internet provider).



**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**
→ When setting up on the table, use the enclosed self-adhesive rubber pads, if applicable.
→ 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.
→ Rack installation with the optional LANCOM CPE blackline Rack Mount / CPE blackline Rack Mount Plus (separately available)

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LED description & technical details

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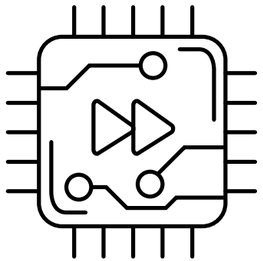

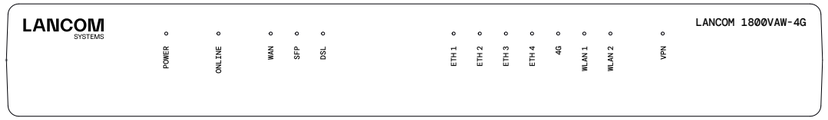


| A Power | |
|---|---|
| Off | Device switched off |
| Blue, permanently* | Device ready for operation or device paired and LANCOM Management Cloud (LMC) accessible. |
| 1x blue, inverse blinking* | Connection to LMC active, pairing OK, device not claimed |
| 2x blue, inverse blinking* | Pairing error or LMC activation code/ PSK not present. |
| 3x blue, inverse blinking* | LMC not reachable resp. communication error |

| B Online | |
|---|---|
| Off | WAN connection not active |
| Blue, blinking | WAN connection in progress (e.g. PPP negotiation) |
| Blue, permanently | WAN connection active |

| C WAN | |
|---|---|
| Off | No link available / interface switched off |
| Blue, permanently | Link available, no data transmission |
| Blue, flickering | Data transmission |

| D SFP | |
|---|---|
| Off | No link available / interface switched off |
| Blue, permanently | Link available, no data transmission |
| Blue, flickering | Data transmission |

| E DSL | |
|---|---|
| Off | Interface switched off |
| Blue, blinking / fast blinking | DSL Handshake<br>DSL Training |
| Blue, permanently | DSL Sync |
| Blue, flickering | Data transmission |
| Blue, flashing | Hardware error |

| F ETH1 - ETH4 | |
|---|---|
| Off | No link available or interface switched off |
| Blue, permanently | Link available, no data transmission |
| Blue, flickering | Data transmission |

| G 4G | |
|---|---|
| Off | Cellular interface switched off |
| Blue, blinking | Registration on the mobile radio system in progress |
| Blue, permanently | Logon to the mobile radio system successful |
| Blue, flickering | Data transmission |
| Blue, flashing | Hardware error |
| Blue, fast flashing | Marginal reception quality |

| H WLAN 1 / WLAN 2 | |
|---|---|
| Off | No Wi-Fi network defined or Wi-Fi module disabled. No beacons are sent from the Wi-Fi module. |
| Blue, blinking | DFS Scanning or other scan process |
| Blue, permanently | At least one Wi-Fi network defined and Wi-Fi module activated. Beacons are sent from the Wi-Fi module. |

| I VPN | |
|---|---|
| Off | No VPN connection active |
| Blue, blinking | VPN connection in progress |
| Blue, permanently | VPN connection active |

| Hardware | |
|---|---|
| Power supply | 12 V DC, external power adapter<br>For an overview of the power supplies compatible with your device, see www.lancom-systems.com/kb/power-supplies. |
| Environment | Temperature range 0 – 40 °C; humidity 0 – 95 %; non-condensing |
| Housing | Robust plastic housing, connectors on the back, prepared for wall mounting; dimensions 293 × 44 × 190 mm (W x H x D) |
| Fan | 1 quiet fan |

| Interfaces | |
|---|---|
| VDSL2 | VDSL2 acc. to ITU G.993.2; profiles 8a, 8b, 8c, 8d, 12a, 12b, 17a, 30a, 35b<br>VDSL Supervectoring acc. to ITU G.993.2 (Annex Q)<br>VDSL2 vectoring acc. to ITU G.993.5 (G.Vector)<br>Compatible with VDSL2 and with Deutsche Telekom's U-R2 connection (1TR112)<br>ADSL2+ over ISDN acc. to ITU G.992.5 Annex B/J with DPBO, ITU G.992.3 and ITU G.992.1<br>ADSL2+ over POTS acc. to ITU G.992.5 Annex A/M with DPBO, ITU G.992.3 and ITU.G.992.1<br>Supports only one virtual circuit in ATM (VPI-VCI pair) at a time |
| WAN (Combo port) SFP / TP | WAN SFP: Slot for small form-factor pluggable Gigabit Ethernet transceiver (mini-GBIC). Compatible with optional LANCOM SFP modules for fiber optic connections.<br>Switched as WAN port at delivery, can be configured as LAN port.<br>WAN TP: 10 / 100 / 1000 Base-TX, Autosensing Full duplex, Auto node hub |
| ETH | 4 individual 10 / 100 / 1000-Mbps Fast Ethernet ports; operate as switch ex-factory.<br>Up to 3 ports can be switched as additional WAN ports. |
| USB | USB 2.0 Hi-Speed host port for connecting USB printers (USB print server), serial devices (COM-port servers), or USB data media (FAT file system) |
| Wi-Fi | 2 internal dual-band Wi-Fi antennas; frequency bands: 2400-2483.5 MHz (ISM) and 5150-5725 MHz (country-specific restrictions possible);<br>Radio channels 2.4 GHz: Up to 13 channels, max. 3 non-overlapping (2.4 GHz band);<br>Radio channels 5 GHz: Up to 26 non-overlapping channels (available channels depending on country-specific regulation and associated with automatic, dynamic DFS channel selection) |
| 4G | 2 SMA connectors for the supplied dipole rod antennas, suitable LANCOM AirLancer antennas for 4G or other manufacturers. Please take into account the legal regulations of your country for the operation of antenna systems (especially antenna gain and transmission power). |
| Configuration interface | Serial USB-C configuration interface |

| WAN protocols | |
|---|---|
| Ethernet | PPPoE, Multi-PPPoE, PPTP (PAC or PNS) and IPoE (with or without DHCP) |

| Package content | |
|---|---|
| Cable | 1 DSL cable for an IP-based line, 4.25 m; 1 Ethernet cable, 3m |
| Antennas | 2 4G antennas for 4G / LTE |
| Power adapter | External power adapter |

*) 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, 2014/53/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



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