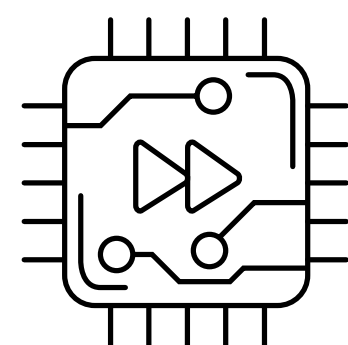
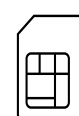
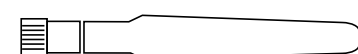


Hardware Quick Reference LANCOM 1800EF-5G

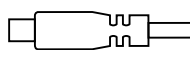
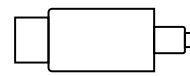
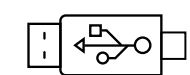
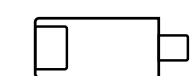


- 1 5G antenna connectors**
Screw the supplied mobile radio antennas to the appropriate connectors.
- 2 Micro SIM card slot**
Slide the SIM card into the SIM card slot using the marker to ensure that the card is the right way round. Ensure that the SIM card clicks into place on insertion.

To remove the card from the device, press the card lightly into the device. Let go to release the SIM card from the slot.
- 3 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.
- 4 WAN interface**
Use the cable with the green connectors to connect the WAN interface to your WAN modem.



- 5 SFP interface**
Insert a suitable LANCOM 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 SFP module's mounting instructions www.lancom-systems.com/SFP-module-MI. (SFP module and cable are not included)
- 6 USB interface**
Connect a USB data medium or a USB printer to the USB interface. (cable not supplied)
- 7 USB-C configuration interface**
A USB-C cable is required to configure the device (cable not supplied)
- 8 Power supply connection socket**
Use only the supplied power adapter!



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.

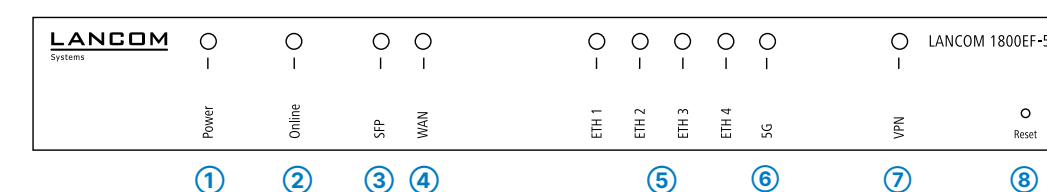
The power plug of the device must be freely accessible.

Please note that support service for third-party accessories is excluded.

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
- Keep all ventilation slots of the device clear of obstruction
- Rack installation with the optional LANCOM **Rack Mount / Rack Mount Plus** (separately available)

Mounting & connecting



1 Power		4 WAN	
Off	Device switched off	Off	Interface deactivated
Green, permanently*	Device operational, resp. device paired / claimed and LANCOM Management Cloud (LMC) accessible	Orange, blinking	Synchronization with the modem
Red/green, blinking	Configuration password not set. Without a configuration password, the configuration data in the device is unprotected.	Orange, permanently	Synchronization with the modem successful
Red, blinking	Hardware error	Green, permanently	WAN connection established
Red, blinking slowly	Time or charge limit reached/error message occurred	Green, flickering	WAN data transmission
1x green inverse blinking*	Connection to the LMC active, pairing OK, device not claimed	Red/orange, blinking	Hardware error, ext. modem
2x green inverse blinking*	Pairing error, resp. LMC activation code not available	5 ETH1 - ETH4	
3x green inverse blinking*	LMC not accessible, resp. communication error	Off	No link
2 Online		Green, permanently	Network connection ready (link)
Off	WAN connection inactive	Green, flickering	Data transmission
Green, blinking	WAN connection is established (e.g. PPP negotiation)	6 5G	
Green, permanently	WAN connection active	Off	Cellular interface disabled
Red, permanently	WAN connection error	Green, permanently	Connection to cellular network active
3 SFP		Green, flickering	Cellular data transmission
Off	SFP deactivated in the configuration or SFP module present, no connection to network device	Orange, permanently	Logon to cellular network successful
Red, permanently	SFP enabled in the configuration but no SFP module present	Orange, blinking	Logging on to cellular network
Green, permanently	SFP module present, connection to network exists, no data transmission	Red, permanently	Hardware error / module unavailable
Green, blinking	Data transmission	Red / green, blinking	SIM card error (PIN)
Red, blinking	SFP module present, hardware error	Red / orange, blinking	Uploading module firmware
		7 VPN	
		Off	No VPN connection active
		Green, permanently	VPN connection active
		Green, blinking	Establishing VPN connection
		8 Reset	
		Pressed up to 5 seconds	device restart
		Pressed until first flashing up of all LEDs	configuration reset and device restart

*) 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.

Hardware	
Power supply	12 V DC, external power adapter 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 synthetic housing, rear connectors, ready for wall mounting, Kensington lock; (W x H x D) 210 x 45 x 140 mm
Fan	1 quiet fan

Interfaces	
WAN	10 / 100 / 1000 Mbps Gigabit Ethernet
ETH	4 individual 10 / 100 / 1000-Mbps Fast Ethernet ports; operate as switch ex-factory. 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)
SFP	Socket for small form-factor pluggable Gigabit-Ethernet transceiver (mini-GBIC). Compatible with optional LANCOM SFP modules for optical connections. Set as a LAN port ex-factory, can be configured as a WAN port.
5G	4 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).
Configuration interface	USB-C configuration interface

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

Package content	
Cable	2 Ethernet cables, 3m (LAN: kiwi-colored connector; WAN: green connector)
Antennas	4 5G / 4G antennas for 5G / LTE
Power adapter	External power adapter

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