



# LANCOM 1800EF-5G High Availability Networking via 5G Fiber and Ethernet User Guide

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**LANCOM 1800EF-5G High Availability Networking via 5G Fiber and Ethernet**



## introduction

### 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.

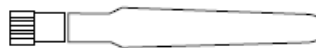
To remove the card from the device, press the card lightly into the device. Let go to release the SIM card from the slot.

### 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](http://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)

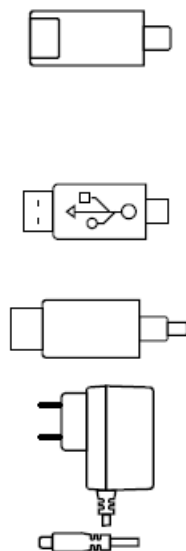
## 7. USB-C configuration interface

A USB-C cable is required to configure the device (cable not supplied)

## 8. Power

After connecting the cable to the device, turn the bayonet connector 90° clockwise until it clicks into place.

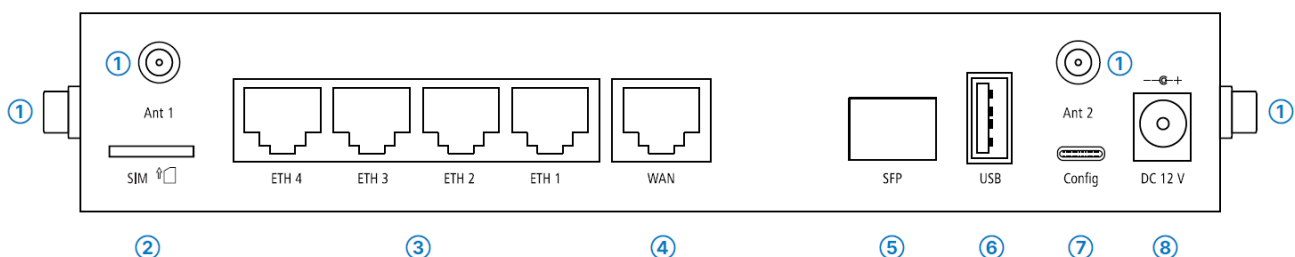
Use only the supplied power adapter.



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.

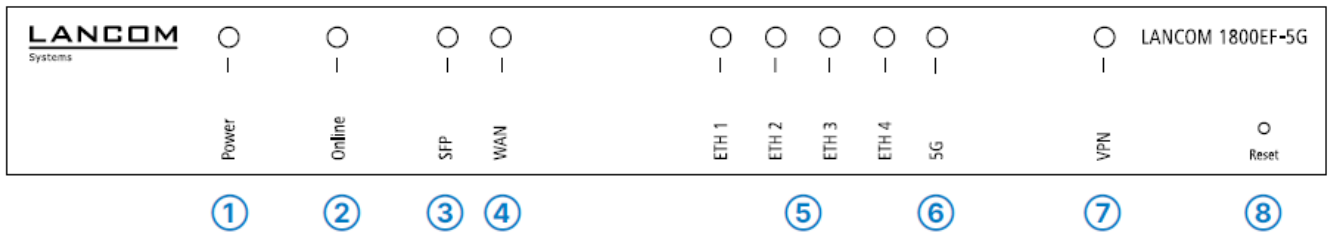
## Please observe the following when setting up the device



- The power 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
- Keep all ventilation slots on the side of the device clear of obstruction
- In case of wall mounting, use the drilling template as supplied
- Rack installation with the optional LANCOM Rack Mount (separately available)
- Please note that support service for third-party accessories is excluded.

## Mounting & connecting



### ① Power

Off	Device switched off
Green, permanently*	Device operational, resp. device paired / claimed and LANCOM Management Cloud (LMC) accessible
Red/green, blinking	Configuration password not set. Without a configuration password, the configuration data in the device is unprotected.
Red, blinking	Hardware error
Red, blinking slowly	Time or charge limit reached/error message occurred
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

### ② Online

Off	WAN connection inactive
Green, blinking	WAN connection is established (e.g. PPP negotiation)
Green, permanently	WAN connection active
Red, permanently	WAN connection error

### ③ SFP

Off	SFP deactivated in the configuration or SFP module present, no connection to network device
Red, permanently	SFP enabled in the configuration but no SFP module present
Green, permanently	SFP module present, connection to network exists, no data transmission
Green, blinking	Data transmission
Red, blinking	SFP module present, hardware error

### ④ WAN

Off	Interface deactivated
Orange, blinking	Synchronization with the modem
Orange, permanently	Synchronization with the modem successful
Green, permanently	WAN connection established
Green, flickering	WAN data transmission
Red/orange, blinking	Hardware error, ext. modem

### ⑤ ETH1 - ETH4

Off	No link
Green, permanently	Network connection ready (link)
Green, flickering	Data transmission

### ⑥ 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

### 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

## Hardware

Power supply	12 V DC, external power adapter (110 or 230 V) with bayonet connector to secure against disconnection
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 × 45 × 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), USB data media (FAT file system), or supported UMTS USB modems
SFP	Socket for small form-factor pluggable Gigabit-Ethernet transceiver (mini-GBIC). Compatible with optional LANCOM SFP modules for optical connections over short distances (SX) or longer distances (LX). 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), RIP-1, RIP-2, VLAN, IP
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## Package content

Cable	2x Ethernet cables, 3m (LAN: kiwi-colored connector; WAN: green connector)
Antennas	4x 5G/4G antennas for 5G / LTE
Power adapter	External power supply adapter (230 V), 12 V / 5 A DC/S; barrel / bayonet (EU), LANCOM item no. 112112 (not for WW devices)

## Documents / Resources

	<a href="#">LANCOM 1800EF-5G High Availability Networking via 5G Fiber and Ethernet</a> [pdf] User Guide 1800EF-5G, High Availability Networking via 5G Fiber and Ethernet, 1800EF-5G High Availability Networking via 5G Fiber and Ethernet
	<a href="#">LANCOM 1800EF-5G High Availability Networking</a> [pdf] Installation Guide 1800EF-5G High Availability Networking, 1800EF-5G, High Availability Networking, Availability Networking, Networking

## References

- [L DoC - LANCOM Systems GmbH](#)
- [L Downloads - LANCOM Systems GmbH](#)
- [L Confluence Mobile - LANCOM Wissensdatenbank](#)
- [L lancom-systems.com/lmc-access](#)
- [L Service & Support: LANCOM Systems GmbH](#)
- [L lancom-systems.com/SFP-module-MI](#)

- [L LCOS 10.72 Reference Manual](#)

Manuals+.