Mounting & connecting

Ant 1
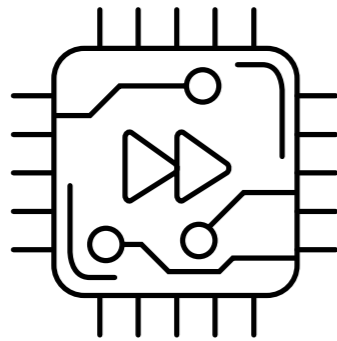SIM   ETH 4   ETH 3   ETH 2   ETH 1   WAN   SFP   USB   Config   DC 12 V
Ant 2

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

Hardware Quick Reference

LANCOM 1800EF-4G

① LTE- / 4G antenna connectors
Screw the supplied mobile radio antennas to the appropriate connectors. Antennas may only be attached or replaced when the device is switched off. Mounting or dismounting while the device is switched on may destroy the 4G modules!

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.

The SIM card may only be inserted or removed when the device is switched off. Inserting or removing while the device is switched on may destroy the 4G modules!

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 to be connected to it are not included.

⑥ USB interface
Connect a USB data medium or a USB printer to the USB interface. (cable not supplied)

⑦ 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)

⑧ Power supply connection socket
Use only the supplied power adapter!
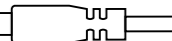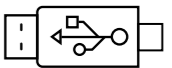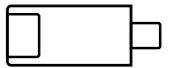
Before initial startup, please make sure to take notice of the information regarding the intended use in the enclosed installation guide!

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 for third-party accessories is not provided.

Please observe the following when setting up the device
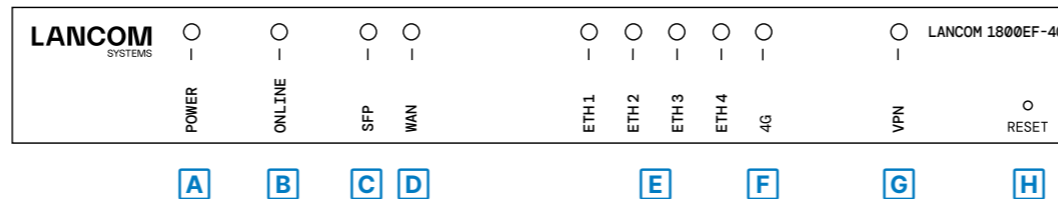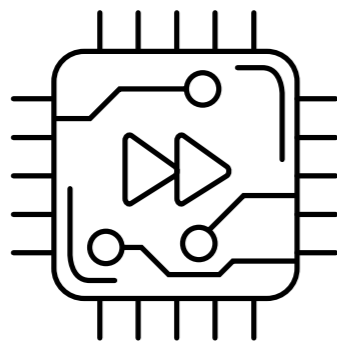→ When setting up on the table, use the enclosed self-adhesive rubber pads, if applicable.
→ Do not rest any objects on top of the device and do not stack multiple devices.
→ Keep all ventilation slots of the device clear of obstruction.
→ Rack installation with the optional LANCOM Rack Mount / Rack Mount Plus
  (separately available)

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LED description & technical details

Hardware Quick Reference

LANCOM 1800EF-4G

LANCOM 1800EF-4G

POWER — ONLINE — SFP — WAN — ETH1 — ETH2 — ETH3 — ETH4 — 4G — VPN — RESET

A B C D E F G H

A 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

B 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

C 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

D 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

E ETH1 - ETH4

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

F 4G

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

G VPN

Off	No VPN connection active
Green, permanently	VPN connection active
Green, blinking	Establishing VPN connection

H 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 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 × 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), 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.
4G	2 SMA connectors for the supplied dipole rod antennas, compatible LANCOM AirLancer antennas for LTE, 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	Serial 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	1 Ethernet cable, 3m
Antennas	2 LTE- / 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.

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