



LANCOM SYSTEMS 1800EFW-5G Business Router Installation Guide

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LANCOM SYSTEMS 1800EFW-5G Business Router



Specifications

- Model: LANCOM 1800EFW-5G
- Antenna: 5G mobile radio antennas
- Power Supply: Power adapter included
- Interface: WAN interfaces (SFP / TP combo port), Ethernet interfaces, USB interface, Micro SIM card slot, Serial USB-C configuration interface
- LED Indicator: Power – Blue (Off, 1x blue blinking, 2x blue blinking, 3x blue blinking)
- Trademark: LANCOM, LANCOM Systems, LCOS, LAN community, Hyper Integration

Product Usage Instructions

- **5G Antenna Connectors:** Screw the supplied mobile radio antennas to the appropriate connectors.
- **Power Supply Connection:** Use only the supplied power adapter.
- **Reset Button:** Short press for device restart, long press for device reset.
- **Micro SIM Card Slot:** Slide the SIM card into the slot ensuring it clicks into place. To remove, lightly press and release the card.
- **Serial USB-C Configuration Interface:** Use a USB-C cable for optional configuration.
- **WAN Interfaces (SFP / TP Combo Port):** Insert a LANCOM SFP module into the WAN SFP interface or connect WAN TP interface to a WAN modem using an Ethernet cable.
- **Ethernet Interfaces:** Connect ETH 1 to ETH 4 to your PC or LAN switch using an Ethernet cable.
- **USB Interface:** Connect a USB data medium or printer to the USB interface.

Important Notes

- Operate the device only with a professionally installed power supply at a nearby accessible power socket.
- The power plug must be freely accessible at all times.
- Avoid stacking multiple devices on top of each other.
- Keep ventilation slots clear of obstructions.

Rack Installation

Rack installation is possible with the optional LANCOM CPE blackline Rack Mount / CPE blackline Rack Mount Plus (sold separately).

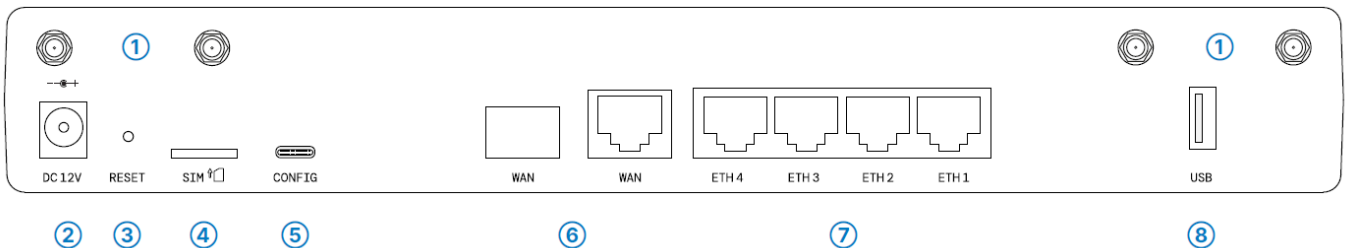
FAQ

Q: What should I do if I encounter technical errors with the device?

A: Contact LANCOM Systems for technical support and assistance. Avoid attempting to repair the device on your own to prevent voiding any warranties.

Hardware Quick Reference

LANCOM 1800EFW-5G



1. 5G 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

RESET

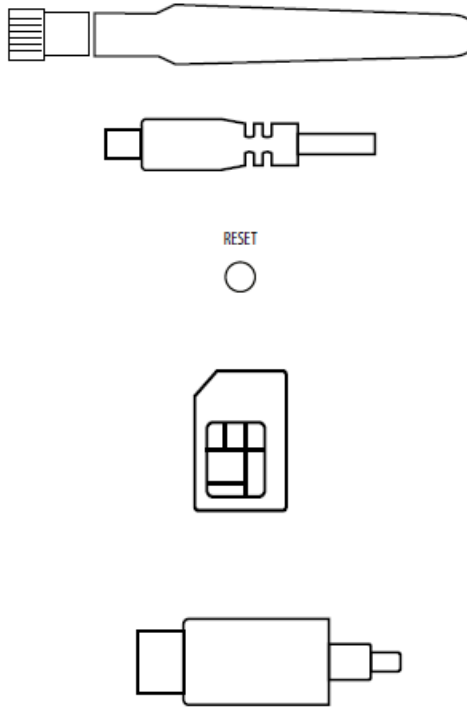
4. Micro SIM card slot

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 to optionally configure 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)

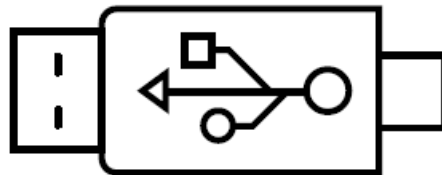
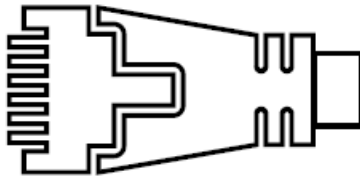
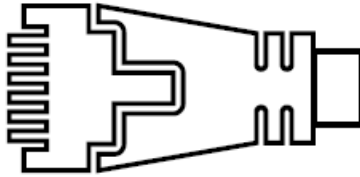
If desired, alternatively connect the WAN TP interface to a WAN modem using an Ethernet cable.

7. Ethernet interfaces

Use an Ethernet cable 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)



- 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)

LED description & technical details

POWER

ONLINE

WAN

SFP

ETH 1

ETH 2

ETH 3

ETH 4

5G

WLAN 1

WLAN 2

VPN

A

B

C

D

E

F

G

H

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 ETH1 - ETH4

Off	No link available or interface switched off
Blue, permanently	Link available, no data transmission
Blue, blinking	Data transmission

F 5G

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

G 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.

H 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 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; (W x H x D) 293 × 44 × 190 mm
Fan	1 quiet fan
Interfaces	
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. Switched as WAN port at delivery, can be configured as LAN port. 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. 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); Radio channels 2.4 GHz: Up to 13 channels, max. 3 non-overlapping (2.4 GHz band) 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); Output power 2,400 - 2,483.5 MHz = 20 dBm Output power 5,150 - 5,350 MHz = 20 dBm Output power 5,470 - 5,725 MHz = 27 dBm
5G	4 SMA connectors for the supplied dipole rod antennas, suitable LANCOM AirLancer antennas for 5G or 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	
Cables	1 Ethernet cable, 3m
Antennas	4 5G / 4G antennas for 5G / LTE
Power adapter	External power adapter

The additional power LED statuses are displayed in a 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

Documents / Resources

	LANCOM SYSTEMS 1800EFW-5G Business Router [pdf] Installation Guide 1800EFW-5G Business Router, 1800EFW-5G, Business Router, Router
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References

- [L DoC - LANCOM Systems GmbH](#)

- [L Confluence Mobile - LANCOM Wissensdatenbank](#)
- [User Manual](#)

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