LANCOM 1800EF Networking System User Guide

LANCOM 1800EF Networking System

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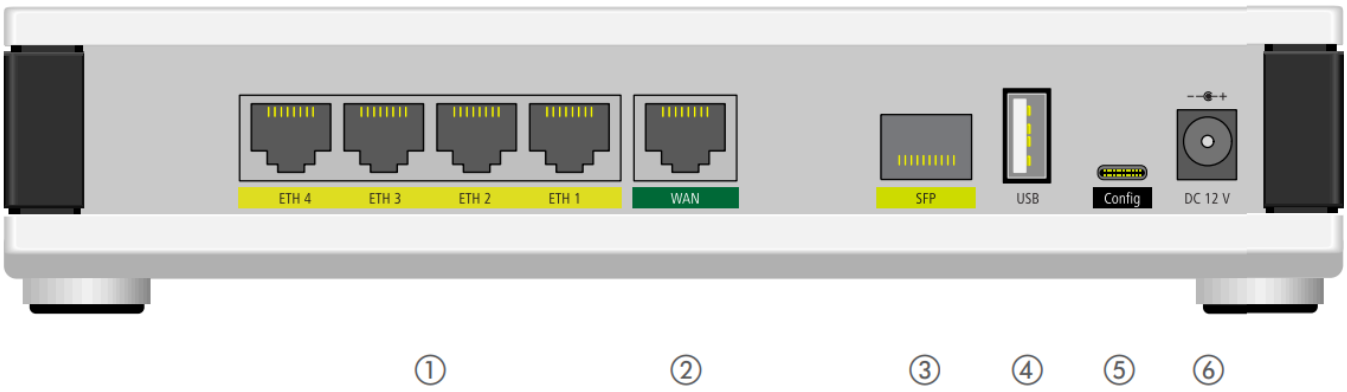
Overview



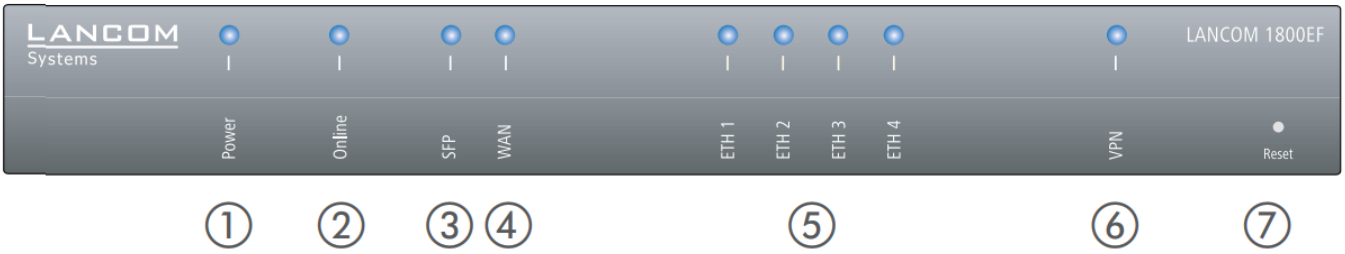
①	**Ethernet interfaces** Use the cable with the kiwi-colored connectors to connect one of the interfaces ETH 1 to ETH 4 to your PC or a LAN switch.	
②	**WAN interface** Use the cable with the green connectors to connect the WAN interface to your WAN modem.	
③	**SFP interface** Insert a suitable LANCOM 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.	
④	**USB interface** Connect a USB data medium or a USB printer to the USB interface. (cable not supplied)	
⑤	**USB-C configuration interface** A USB-C cable is required to configure the device (cable not supplied)	
⑥	**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.	

Please observe the following when setting up the device

> Do not rest any objects on top of the device
> For devices to be operated on the desktop, please attach the adhesive rubber footpads
> In case of wall mounting, use the drilling template as supplied

> Keep all ventilation slots on the side of the device clear of obstruction
> Rack installation with the optional LANCOM Rack Mount (s eparately available)
> Please note that support for third-party accessories is not p rovided.

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.



① Power	
Off	Device switched off
Red/green, blinking	Device operational, resp. device paired / claimed and LANCOM Management C loud (LMC) accessible
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
⑤ETH1 – ETH4	
Off	No link
Green, permanently	Network connection ready (link)
Green, flickering	Data transmission
⑥ VPN	
Off	No VPN connection active
Green, permanently	VPN connection active
Green, blinking	Establishing VPN connection
⑦ 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 TECHNICAL DETAILS rotation if the device is configured to be managed by the LANCOM Management Cloud.

Hardware	
Power supply	12 V DC, external power adapter (110 or 230 V) with bayonet connector to secure against disconnection
Power consumption	Max. 15 W
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), 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.
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
Declaration of Conformity	
Hereby, LANCOM Systems GmbH | Adenauerstrasse 20/B2 | D-52146 Wuerselen, declares that this device is in compliance with Directives 2014/30/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	
Package content	
Documentation	Hardware Quick Reference Guide (DE/EN); Installation Guide (DE/EN)
Cable	2 Ethernet cables, 3m (LAN: kiwi-colored connector; WAN: green connector)
Power adapter	External power supply adapter (230 V), 12 V / 2 A DC/S; barrel / bayonet (EU), LANCOM item no. 111303 (not for WW devices)

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.

Documents / Resources

	LANCOM 1800EF Networking System [pdf] User Guide 1800EF Networking System, 1800EF, Networking System, 1800EF Networking

References

- DoC - LANCOM Systems GmbH
- lancom-systems.com/SFP-module-MI

Manuals+,