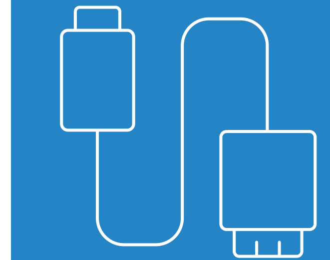
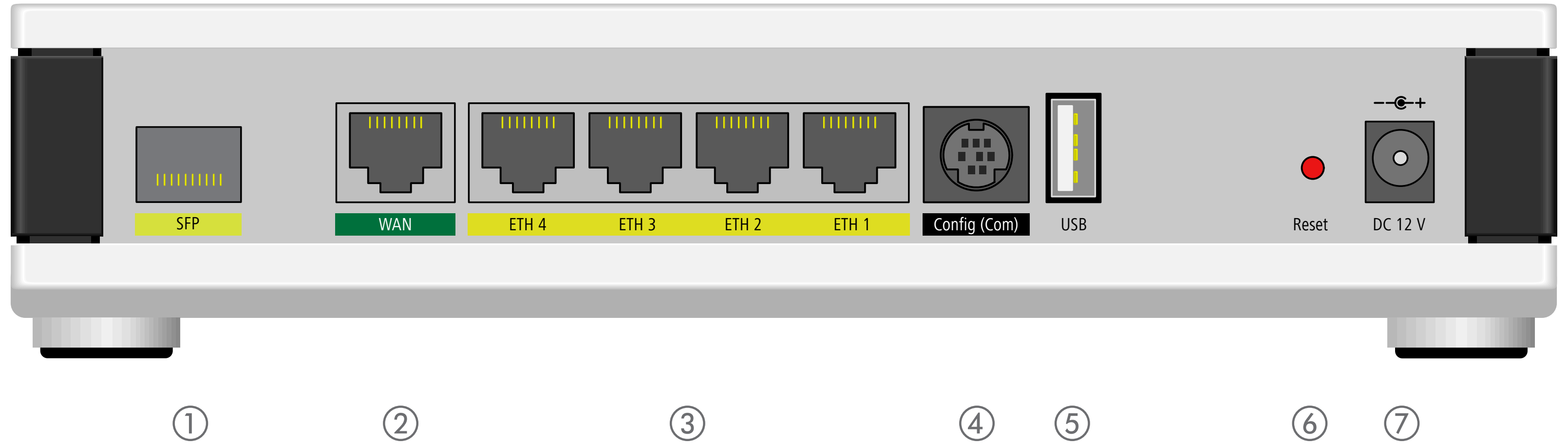
SECURE. **NETWORKS.**

LANCOM 1790EF
Quick Reference Guide



Cloud-ready

LANCOM
Systems



① **SFP interface**
Insert a suitable 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 module's documentation. SFP modulel and cable are not included.

② **WAN interface**
Use the cable with the green connectors to connect the WAN interface to your WAN modem..

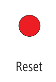
③ **Ethernet interfaces**
Use the cable with the kiwi-colored connectors to connect one of the interfaces ETH 1 to ETH 4 to your PC or a LAN switch.

④ **Configuration interface**
Use a serial configuration cable to connect the serial interface (COM) to the serial interface of the device you want to use for configuring / monitoring (separately available).

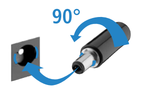
⑤ **USB interface**
Connect a USB data medium or a USB printer to the USB interface. (USB cable not supplied)

⑥ **Reset button**
Pressed up to 5 seconds: device restart

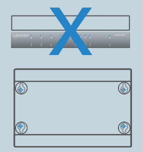
Pressed until first flashing up of all LEDs:
configuration reset and device restart



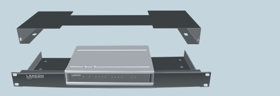
⑦ **Power**
After connecting the cable to the device, turn the bayonet connector 90° clockwise until it clicks into place.
Use only the supplied power adapter.



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

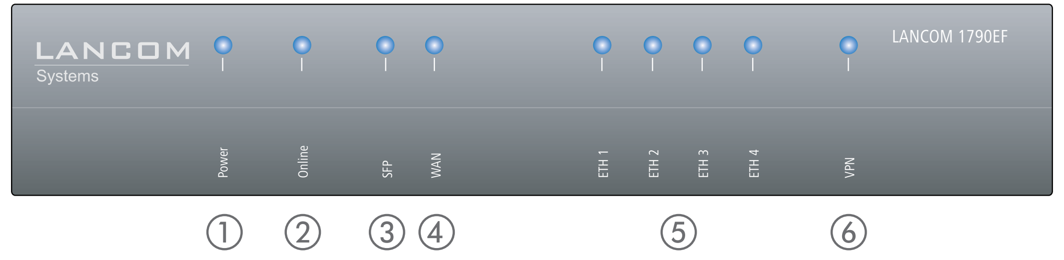


- Keep the ventilation slots on the side of the device clear of obstruction
- Rack installation with the optional LANCOM Rack Mount (separately available)



Before initial startup, please make sure to take notice of the information regarding the intended use in the enclosed installation guide!

MOUNTING AND CONNECTING THE DEVICE



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, 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 ETH

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

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*) The additional power LED statuses are displayed in 5-seconds rotation if the device is configured to be managed by the LANCOM Management Cloud.

TECHNICAL DETAILS

Hardware

Power supply	12 V DC, external power adapter (110 or 230 V) with bayonet connector to secure against disconnection
Power consumption	Max. ca. 11 W
Environment	Temperature range 0 – 40 °C; humidity 0 – 95 %; non-condensing
Housing	Robust synthetic housing, rear connectors, ready for wall mounting, Kensington lock; measures 210 x 45 x 140 mm (W x H x D)
Number of fans	None; fanless design, no rotating parts, high MTBF

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
Serial Interface	Serial configuration interface / COM port (8-pin Mini-DIN): 9,600 - 115,000 baud, suitable for optional connection of analog/GPRS modems. Supports internal COM-port server and provides transparent asynchronous serial data transmission via TCP

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 declares that this device is in compliance with Directives 2014/30/EU and 2014/35/EU.
The full text of the EU declaration of conformity is available at the following internet address:
www.lancom-systems.com/ce/

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); NEST 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.