

**LANCOM**  
SYSTEMS  
**1650E Site**  
**Networking Via Fiber**  
**Optic and Ethernet**



# LANCOM SYSTEMS 1650E Site Networking Via Fiber Optic and Ethernet Instruction Manual

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**LANCOM**  
SYSTEMS

**LANCOM SYSTEMS 1650E Site Networking Via Fiber Optic and Ethernet**



## Specifications

- **Product:** LANCOM 1650E
- **Interfaces:** WAN, Ethernet (ETH 1-3), USB, Serial USB-C
- **Power Supply:** Supplied power adapter
- **LEDs:** Power, Online, WAN

## Product Usage Instructions

- **WAN Interface:** Use an Ethernet cable to connect the WAN interface to your WAN modem.
- **Ethernet Interfaces:** Connect one of the interfaces ETH 1 to ETH 3 to your PC or LAN switch using the enclosed Ethernet cable.
- **USB Interface:** Connect a USB data medium or a USB printer to the USB interface (cable not supplied).
- **Serial USB-C Configuration Interface:** Use a USB-C cable for optional configuration of the device on the serial console (cable not included).
- **Power Supply Connection:** Use only the supplied power adapter and ensure it is professionally installed at a nearby accessible power socket.

## Setting Up the Device

- Use enclosed self-adhesive rubber pads when setting up on a table.
- Avoid placing objects on top of the device and do not stack multiple devices.
- Keep all ventilation slots clear of obstructions.
- Rack installation is possible with the optional LANCOM Rack Mount / Rack Mount Plus (separately available).

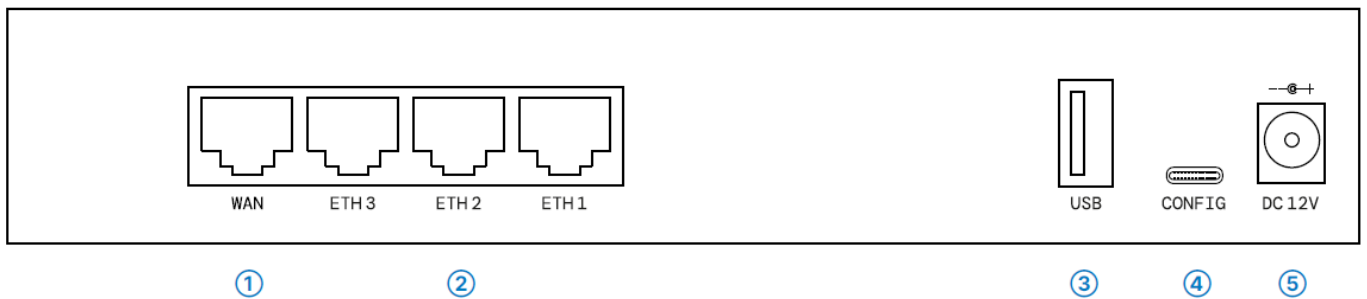
## LED Description & Technical Details

- **Power LED:** Indicates device status – off, green permanently, red/green blinking, etc.
- **Online LED:** Indicates online status – off, green blinking, green permanently, red permanently, etc.
- **WAN LED:** Indicates WAN connection status – off, green permanently, green flickering, etc.

## FAQ

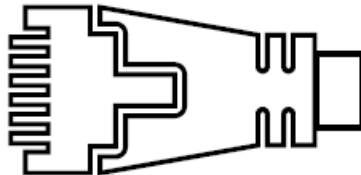
- **Q:** Can I use third-party accessories with the LANCOM 1650E?
- **A:** No, support for third-party accessories is not provided. Please use only recommended accessories for optimal performance and compatibility.
- **Q:** How do I know if my WAN connection is active?
- **A:** Check the WAN LED status – if it is green permanently or flickering, your WAN connection is active. If it is off, there is no connection.

## Mounting & connecting



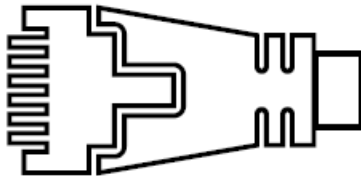
### 1. WAN interface

Use an Ethernet cable to connect the WAN interface to your WAN modem.



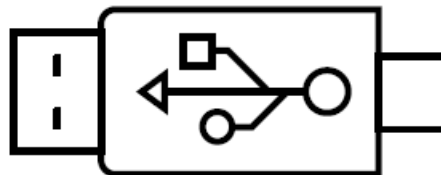
### 2. Ethernet interfaces

Use the enclosed Ethernet cable to connect one of the interfaces ETH 1 to ETH 3 to your PC or a LAN switch.



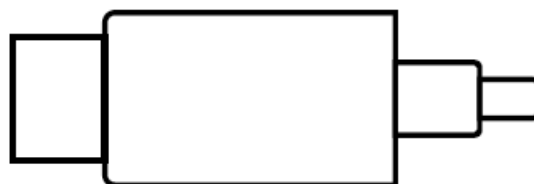
### 3. USB interface

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



### 4. 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)



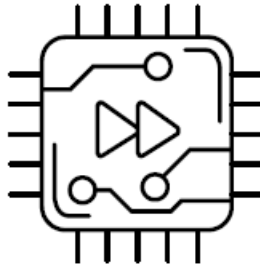
### 5. Power supply connection socket

Use only the supplied power adapter!



## Hardware Quick Reference

- LANCOM 1650E

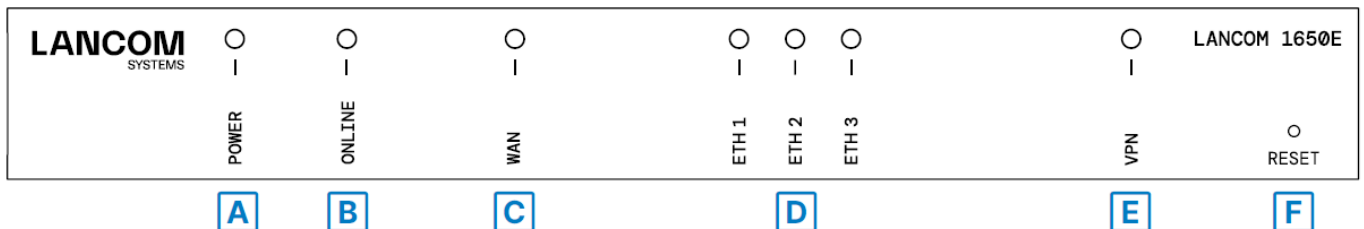


- Before initial startup, please make sure to take notice of the information regarding the intended use in the enclosed installation guide!
- Operate the device only with a professionally installed power supply at a nearby power socket that is freely accessible at all times.
- The power plug of the device 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)

### LED description & technical details



#### **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, permanent WAN connection error

## WAN

- Off No connection (no link)
- Green, permanent Network connection ready (link)
- Green, flickering Data transmission

## ETH1 – ETH3

- Off No connection (no link)
- Green, permanent Network connection ready (link)
- Green, flickering Data transmission

## VPN

- Off No VPN connection active
- Green, permanent VPN connection active
- Green, blinking Establishing VPN connection

## 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](http://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 x 45 x 140 mm

## Interfaces

- WAN 10 / 100 / 1000 Mbps Gigabit Ethernet
- ETH 3 individual 10 / 100 / 1000-Mbps Fast Ethernet ports; operate as switch ex-factory. Up to 2 ports can be switched as additional WAN ports.

- USB 2.0 Hi-Speed host port for connecting USB printers (USB print server), serial devices (COMport servers), or USB data media (FAT file system)
- 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
- Power adapter External power adapter

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

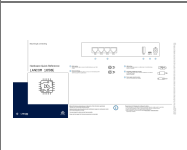
This product contains separate open-source software components which are subject to their licenses, in particular the General Public License (GPL). The license information for the device firmware (LCOS) is available on the device's WEBconfig interface under "Extras > License information". If the respective license demands, the source files for the corresponding software components will be made available on a download server upon request.

## CONTACT

- Hereby, LANCOM Systems GmbH | Adenauerstrasse 20/B2 | D-52146 Wuerselen, declares that this device complies 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](http://www.lancom-systems.com/doc).

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## Documents / Resources

	<p><b><a href="#">LANCOM SYSTEMS 1650E Site Networking Via Fiber Optic and Ethernet</a></b> [pdf] Instruction Manual</p> <p>1650E Site Networking Via Fiber Optic and Ethernet, 1650E, Site Networking Via Fiber Optic and Ethernet, Networking Via Fiber Optic and Ethernet, Fiber Optic and Ethernet, Ethernet</p>
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## References

- [L Confluence Mobile - LANCOM Wissensdatenbank](#)
- [L Business-Netzwerkloesungen „Engineered in Germany“: LANCOM Systems GmbH](#)
- [User Manual](#)

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