

FRITZ! 20002583

AVM FRITZ!Powerline 530E Instruction Manual

Model: 20002583

INTRODUCTION

The AVM FRITZ!Powerline 530E is a network adapter designed to extend your home network using your existing electrical wiring. It enables data transfer rates of up to 500 Mbit/s and features an integrated Fast Ethernet LAN port for connecting network-compatible devices. The device also includes an integrated power outlet with a power filter, ensuring the socket remains available for other electrical appliances.

SAFETY INSTRUCTIONS

- Only use the device in dry indoor environments.
- Do not open the device casing.
- Avoid exposing the device to moisture, dust, or direct sunlight.
- Ensure proper ventilation; do not cover the device.
- Plug the device directly into a wall outlet. Do not use extension cords or power strips with the Powerline adapter, as this may reduce performance.

PACKAGE CONTENTS

- 1 x AVM FRITZ!Powerline 530E adapter (White)
- 1 x Network cable
- 1 x Installation guide

SETUP

The FRITZ!Powerline 530E is designed for easy setup without requiring software installation. Follow these steps to establish your Powerline network:

1. Initial Connection

1. Plug the first FRITZ!Powerline 530E adapter directly into a wall outlet near your router (e.g., FRITZ!Box).

2. Connect the FRITZ!Powerline 530E to your router using the provided network cable.
3. Plug the second FRITZ!Powerline 530E adapter (or another compatible Powerline adapter) into a wall outlet in the room where you want to extend your network.
4. Connect your network-compatible device (e.g., PC, game console, smart TV) to the second FRITZ!Powerline 530E using a network cable.

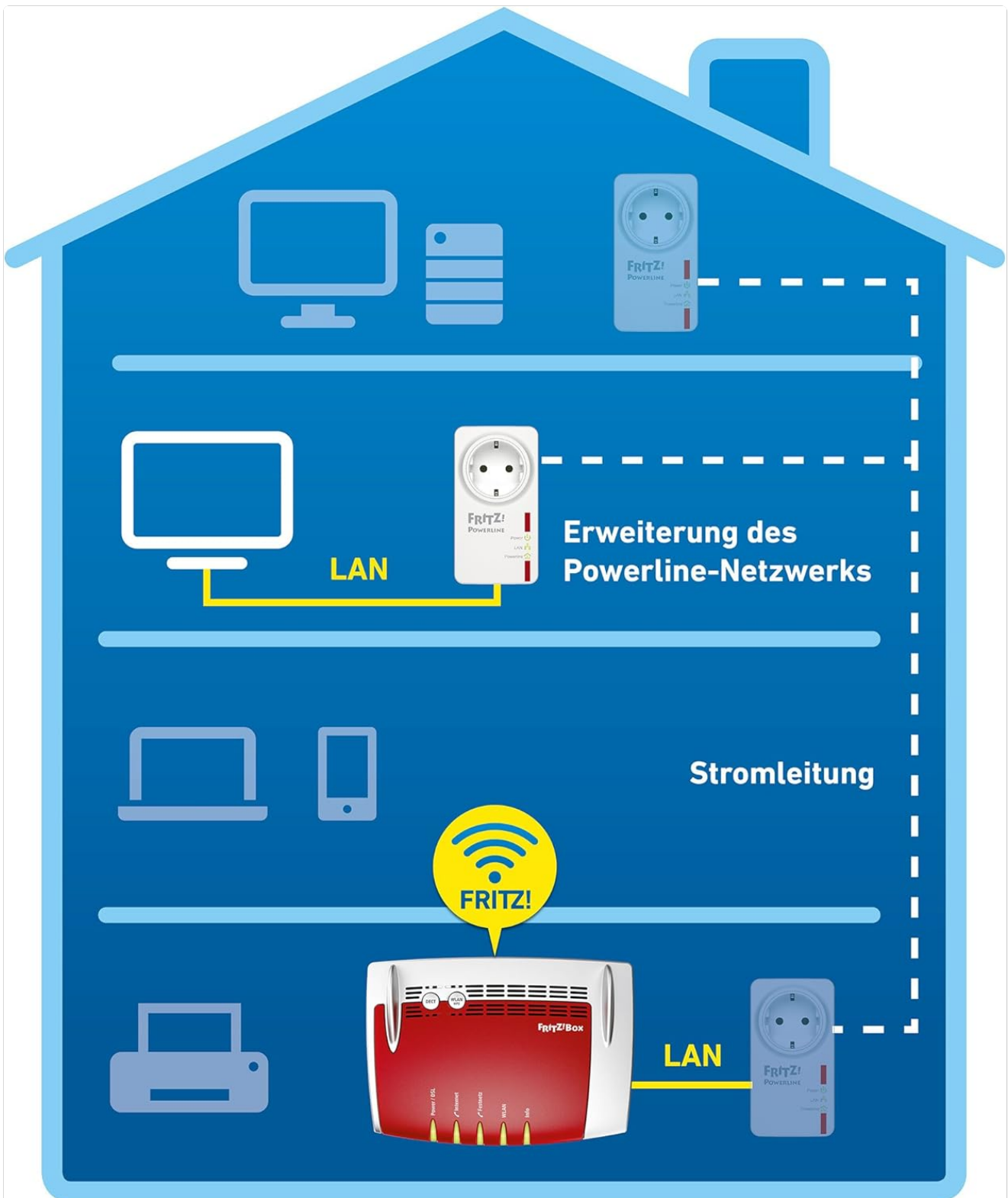


Figure 1: Example of a FRITZ!Powerline network setup. This diagram illustrates how FRITZ!Powerline adapters extend a home network using existing electrical wiring, connecting devices like PCs, laptops, and media players to a central FRITZ!Box router.

2. Automatic Pairing

FRITZ!Powerline adapters are typically factory-paired and encrypted with AES 128-bit for security. If you are using multiple FRITZ!Powerline devices, they should automatically connect. If they do not connect, or if you are adding

new adapters to an existing network, you may need to pair them manually:

- Ensure all FRITZ!Powerline adapters are plugged into wall outlets.
- On one adapter, press and hold the "Connect" or "Security" button (refer to the device for exact button location, usually indicated by a house icon or similar) for approximately 1 second. The Powerline LED will flash.
- Within 2 minutes, press the "Connect" or "Security" button on the other adapter for approximately 1 second.
- Both adapters will now pair. The Powerline LED on both devices should light up continuously once connected.

OPERATING

The FRITZ!Powerline 530E features LED indicators to provide status information:



Figure 2: Front view of the FRITZ!Powerline 530E, showing the integrated power outlet and LED indicators for Power, LAN, and Powerline status.

- **Power LED (Power icon):**
 - **On:** Device is powered on.
 - **Off:** Device is off or not receiving power.
- **LAN LED (LAN icon):**
 - **On:** A device is connected to the LAN port.
 - **Flashing:** Data is being transmitted via the LAN port.
 - **Off:** No device is connected or no data activity.
- **Powerline LED (House icon):**
 - **On:** Connected to a Powerline network.
 - **Flashing:** Establishing connection or pairing mode.

- **Off:** Not connected to a Powerline network.

MAINTENANCE

- **Cleaning:** Disconnect the device from the power outlet before cleaning. Use a soft, dry, lint-free cloth. Do not use liquid or abrasive cleaners.
- **Firmware Updates:** AVM regularly provides firmware updates to improve performance and add features. Check the official FRITZ! website for the latest firmware for your device. Updates are typically managed via the FRITZ!Box interface or FRITZ!Powerline software.

TROUBLESHOOTING

- **No Powerline Connection (Powerline LED off):**
 - Ensure both Powerline adapters are plugged directly into wall outlets, not power strips or extension cords.
 - Try plugging the adapters into different outlets.
 - Perform a manual pairing process as described in the "Setup" section.
 - Check if the electrical circuit is overloaded or if there are devices causing interference (e.g., motors, dimmers).
- **Slow Connection Speed:**
 - Powerline performance can be affected by the quality of your electrical wiring.
 - Avoid plugging adapters into outlets on different electrical phases if possible.
 - Remove any electrical devices that might cause interference from nearby outlets.
 - Ensure the LAN cable connecting your device to the Powerline adapter is functioning correctly.
- **No Internet Access via LAN:**
 - Verify that the Powerline LED is continuously lit, indicating a successful Powerline connection.
 - Check the LAN cable connection between the Powerline adapter and your device.
 - Ensure your router (e.g., FRITZ!Box) is properly configured and providing internet access.
 - Restart both the Powerline adapters and your router.

SPECIFICATIONS

Feature	Detail
Model Number	20002583
Manufacturer	AVM
Data Transfer Rate	Up to 500 Mbit/s
Hardware Interface	Fast Ethernet (LAN)
Data Link Protocol	Fast Ethernet
Security	AES 128-bit encryption (factory-set)

Integrated Power Outlet	Yes, with power filter
Color	White
Compatible Devices	Computer, FRITZ!Box, Printer, TV, Hi-Fi, Game Console, Media Player, other network devices

WARRANTY AND SUPPORT

AVM provides a manufacturer's warranty for its products. For detailed warranty information, please refer to the warranty card included with your product or visit the official AVM website. For technical support, frequently asked questions, and further assistance, please visit the FRITZ! support page:

[Visit FRITZ! Support](#)

Note: Spare parts availability and software update guarantees are not explicitly provided in the product information.