FRITZ!Powerline 1260E

Configuration and Operation

Table of Contents

General Remarks 5
Safety Instructions 6
Instructions and Help 8
Device Data on the Type Label 10
Package Contents 11
Functions and Structure 12
Functions 13
Connection Socket 14
Buttons 15
LEDs 17
Connecting 19
Overview: Connecting FRITZ!Powerline 20
Connecting FRITZ!Powerline: Options 21
Configuring a New Powerline Network 22
Adding FRITZ!Powerline to a Powerline Network 26
Connecting Computers and Other Devices 28
Configuring 30
Overview: Configuring FRITZ!Powerline 1260E 31
Enabling Mesh 32
Adopting Settings from the FRITZ!Box (without Mesh WiFi) 34
User Interface 36
Opening the User Interface 37
User Interface: Powerline Menu 42
Powerline Menu: Settings and Features 43
Adding a Powerline Device without Pushing Buttons 44
Resetting the Network Password 45

User Interface: Access to Home Network Menu 46
Access to Home Network Menu: Settings and Features 47
Configuring FRITZ!Powerline As a Wireless Repeater 48
Connecting FRITZ!Powerline to FRITZ!Box with a LAN Cable 50
User Interface: Network 51
Network Menu: Settings and Features 52
Configuring the IP Address Manually 53
User Interface: Wireless Menu 54
Wireless Menu: Settings and Features 55
FRITZ!Powerline Adopts Wireless LAN Settings from the Mesh 56
Changing the Name of the Wireless Network (SSID) 57
Selecting the WiFi Channel 58
Configuring Wireless Guest Access 59
Configuring a Schedule for the Wireless Network 61
Switching the Wireless Network On and Off 62
User Interface: System Menu 63
System Menu: Settings and Features 64
Configuring Push Services 65
Switching LED Display On and Off 67
Enabling and Disabling the Button Lock 68
Configuring a FRITZ!Powerline Password 69
Saving Settings 71
Loading Settings 72
Updating FRITZ!OS 73
Restoring Factory Settings 75
The FRITZ!Powerline Program 76
The FRITZ!Powerline Program: Settings and Features 77
Finding the Best Outlet 79
Changing the Network Password 80

Appendix 82
Technical Specifications 83
Legal 86
Information on Cleaning 91
Disposal 92
Index 93

General Remarks

Safety Instructions 6
Instructions and Help 8
Device Data on the Type Label 10
Package Contents 11

Safety Instructions

Overview

Before connecting FRITZ!Powerline, observe the following security instructions in order to protect yourself, the surroundings, and FRITZ!Powerline from harm.

Easy Accessibility

It must always be possible to disconnect FRITZ!Powerline from electrical power.

- Plug FRITZ!Powerline into an electrical outlet that is easy to reach.

Fires and Electrical Shocks

Overloaded outlets, extension cords and power strips can cause fires or electric shocks.

- Always plug FRITZ!Powerline directly into a wall outlet. Do not use any power strips or extension cords.
- Do not connect multiple FRITZ!Powerline devices with each other.

Overheating

Heat accumulation can lead to overheating of FRITZ!Powerline. This can result in damage to FRITZ!Powerline.

- Install FRITZ!Powerline in a place that is protected from direct sunlight.
- Provide for sufficient air circulation around FRITZ!Powerline.
- Make sure that the ventilation slits on the housing are always unobstructed.
- Do not cover FRITZ!Powerline.
- Avoid operation in the direct vicinity of a radiator or heating unit.

Moisture, Liquids and Vapors

Moisture, liquids and vapors that find their way into FRITZ!Powerline can cause electric shocks or short circuits.

- Only use FRITZ!Powerline indoors.
- Never let liquids get inside FRITZ!Powerline.
- Protect FRITZ!Powerline from vapors and moisture.

Improper Cleaning

Improper cleaning with strong detergents, solvents or wet cloths can cause damage to FRITZ!Powerline.

- Please refer to the information about cleaning; see page 91.

Improper Opening and Repairs

FRITZ!Powerline contains hazardous components and should only be opened by authorized repair technicians.

- Do not open FRITZ!Powerline.

Instructions and Help

Instructions and Help

To connect, configure and operate your FRITZ!Powerline 1260E, use the following instructions and help:

Instructions, Help	Contents	Location
Manual	Status: current version of FRITZ!OS	en.avm.de/service/manuals
	Connecting, configuration and operation	
	Range of functions of your FRITZ! device	
Quick guide	Connecting and configuration	Is provided in print with your FRITZ!Powerline
Online help	Instructions on configuration and operation	/ ?
Knowledge Base	Solutions for common problems during connection, configuration and operation	en.avm.de/service
Newsletter and social media	The latest information on FRITZ! products, updates, and practical tips	en.avm.de/newsletter
		Facebook
		Instagram
		Twitter
		YouTube

Symbols Used

The following symbols are used in this manual:

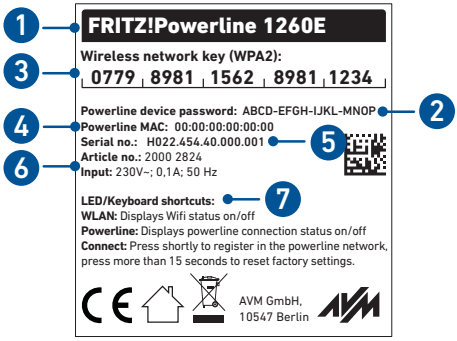
Symbol	Meaning
	Important message that should be complied with in order to prevent material damage, errors or malfunctions
	Useful tip for configuring and operating the FRITZ!Powerline

Device Data on the Type Label

Overview

Important device data on your FRITZ!Powerline device are presented on the type label on the back of the device.

Device Data on the Type Label



No.	Meaning
1	Product name
2	Powerline device password
3	Network key (wireless LAN password)
4	Powerline MAC address
5	Serial number
6	Article number
7	LED and button assignments

Package Contents

Package Contents

Number	Supplied Part
1	FRITZ!Powerline 1260E
1	LAN cable
1	Quick guide

Functions and Structure

Functions 13
Connection Socket 14
Buttons 15
LEDs 17

Functions

Connects Network Devices with the Home Network and Internet

FRITZ!Powerline connects computers, smartphones, game consoles, smart TV and other network devices with the home network and internet connection of your FRITZ!Box (or another router).

Connection options for network devices:

- Wireless LAN (up to 866 Mbit/s in the 5-GHz and up to 400 Mbit/s in the 2.4-GHz band)
- LAN cable (1 gigabit Ethernet port)

Expands the Wireless Network of the FRITZ!Box via Electrical Wiring

FRITZ!Powerline connects attached devices with the home network and internet via electrical wiring (powerline). Via powerline, data transmission is possible even where the wireless LAN of the FRITZ!Box cannot be received, for instance, over greater distances and through multiple walls or ceilings.

Mesh WiFi

FRITZ! devices distributed throughout the home work together in a single network with the same name and network key. The devices communicate with each other to optimize all wireless connections.

Expands the Wireless Network also as a Wireless Repeater or via LAN Cable

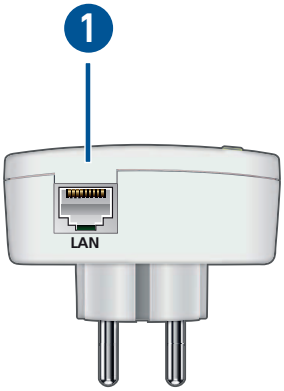
You can also use FRITZ!Powerline without the powerline function and configure it as a wireless repeater, or connect it to the FRITZ!Box with a LAN cable.

Secure Powerline Connections

Powerline connections are secured ex works with encryption and an individual network password.

Connection Socket

Socket Function



No.	Name	Function
1	LAN	Gigabit Ethernet port for: • Connecting PCs, notebooks, game consoles, smart TV and other network-compatible devices • Connection to router

Buttons

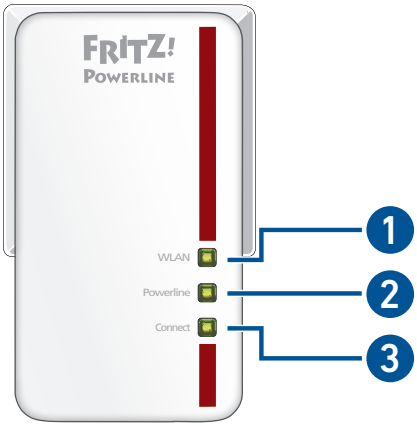
Button Functions

No.	Button	Press	Function
1	Connect	short	• Start WPS to set up wireless connections see page 28 • Establish a secure powerline connection (pairing) • integrate into the Mesh WiFi of the FRITZ!Box, see page 32 • in Wireless Bridge mode: Connect with wireless router (start WPS on router)
		for 6 to 10 seconds	• Adopt wireless LAN settings from the router; see page 34 • in Wireless Bridge mode: Switch wireless router (start WPS on router)

No.	Button	Press	Function
1	Connect	longer than 15 seconds	Loads factory settings

LEDs

Meaning of the LEDs



No.	LED	Condition	Meaning
1	WLAN	on	Wireless LAN enabled
		off	Wireless LAN disabled (in the user interface)
		flashing	in Wireless Bridge mode: Searching for the wireless router
2	Powerline	on	Connected with the powerline network
		off	No connection with the powerline network, or powerline switched off (in the user interface)

No.	LED	Condition	Meaning
3	Connect	flashes along with WLAN and Powerline	• Receiving or transmitting the password of the powerline network • Performing WPS • The FRITZ!Powerline is integrated into the Mesh WiFi of the FRITZ!Box • FRITZ!Powerline adopts wireless LAN settings from the internet router

Connecting

Overview: Connecting FRITZ!Powerline 20
Connecting FRITZ!Powerline: Options 21
Configuring a New Powerline Network 22
Adding FRITZ!Powerline to a Powerline Network 26
Connecting Computers and Other Devices 28

Overview: Connecting FRITZ!Powerline

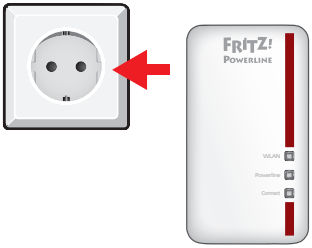
Overview

Connecting entails the following steps:

	Instructions
↓	Connect FRITZ!Powerline 1260E.
↓	Connect the computer and other devices to FRITZ!Powerline 1260E.

Rules

- Always plug FRITZ!Powerline into a wall outlet. Do not use a power strip (multi-outlet strip).



Connecting FRITZ!Powerline: Options

Overview

You can add FRITZ!Powerline 1260E to an existing powerline network. You can also set up a new powerline network. For this you need at least one more powerline device, for instance, from a FRITZ!Powerline set.

If you do not have any other powerline devices, you can deploy FRITZ!Powerline 1260E as a wireless repeater (see page 48) or connect it to your FRITZ!Box via LAN cable (see page 50).

Illustration: Configuring a New Powerline Network

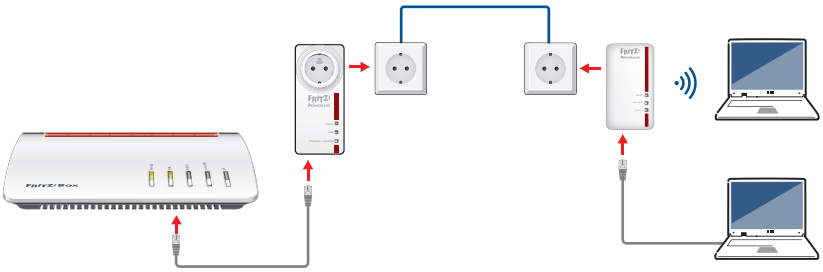
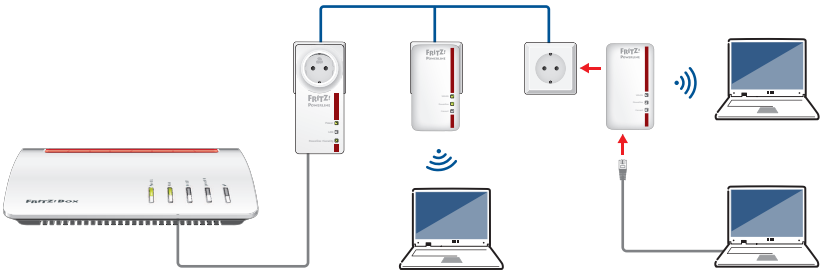


Illustration: Adding FRITZ!Powerline to a Powerline Network



Configuring a New Powerline Network

Overview

To set up a new powerline network you need a FRITZ!Powerline 1260E WLAN Set or FRITZ!Powerline 1260E and any second powerline device.

A FRITZ!Powerline 1260E WLAN Set comprises two FRITZ!Powerline devices that are synchronized ex works to be used together.

Requirements

- To configure a new powerline network with a FRITZ!Powerline 1260E WLAN Set: Both FRITZ!Powerline devices have the factory settings configured.

  The factory settings can be restored to FRITZ!Powerline devices that were already in operation; see page 15.

Instructions: Configuring a New Powerline Network with FRITZ!Powerline 1260E WLAN Set

1. Plug FRITZ!Powerline 1220E into an outlet near the internet router (FRITZ!Box).
2. Connect FRITZ!Powerline 1220E to the internet router using a LAN cable.
3. Also temporarily plug FRITZ!Powerline 1260E into an outlet near the internet router.
4. Wait until the “WLAN” LED on FRITZ!Powerline 1260E lights up.

5. To adopt the wireless LAN settings from the internet router (FRITZ!Box), press the “Connect” button on FRITZ!Powerline 1260E for 6 to 10 seconds.

   All LEDs flash.

6. Start WPS on the internet router so that the wireless LAN settings are transmitted to FRITZ!Powerline 1260E:

FRITZ!Box with Button	Enabling Mesh
“Connect” or “WPS”	Press button briefly.
“WLAN/WPS”	Hold down the button until the “WLAN” button on the FRITZ!Box flashes.

7. Plug FRITZ!Powerline 1260E into a wall socket where you need access to the internet and the home network for your computer and other devices.

   The connection to FRITZ!Powerline 1220E is re-established automatically and the “Powerline” LED lights up.

Instructions: Configuring a New Powerline Network with FRITZ!Powerline 1260E

Here is how to configure a new powerline network with FRITZ!Powerline 1260E and a second powerline device:

1. Plug the powerline devices into two outlets near the internet router (FRITZ!Box). For configuration of the powerline network you can also plug both devices briefly into a (multi-outlet) power strip.
2. Wait until the “WLAN” LED on FRITZ!Powerline 1260E lights up.
3. On FRITZ!Powerline 1260E: Press the “Connect” button briefly.

   Transmission of the network password starts and the LEDs flash.

4. On the second powerline device: Press the button for secure powerline connections (often labeled “Pairing” or “Security”).

   The device receives the network password. When the two devices are connected to each other, the “Powerline” LED on FRITZ!Powerline 1260E lights up.

5. To adopt the wireless LAN settings from the internet router (FRITZ!Box), press the “Connect” button on FRITZ!Powerline 1260E for 6 to 10 seconds.

   All LEDs flash.

6. Start WPS on the internet router so that the wireless LAN settings are transmitted to FRITZ!Powerline 1260E:

FRITZ!Box with Button	Enabling Mesh
“Connect” or “WPS”	Press button briefly.
“WLAN/WPS”	Hold down the button until the “WLAN” button on the FRITZ!Box flashes.

7. Plug the second powerline device into an outlet near the internet router (FRITZ!Box). Connect it to the internet router using a LAN cable.
8. Plug FRITZ!Powerline 1260E into a wall socket where you need access to the internet and the home network for your computer and other devices.

Adding FRITZ!Powerline to a Powerline Network

Overview

You can add a FRITZ!Powerline 1260E to an already configured powerline network.

Instructions:: Adding FRITZ!Powerline to a Powerline Network

1. Plug FRITZ!Powerline 1260E into an outlet in the vicinity of a powerline device in the configured network.
2. Wait until the “WLAN” LED on FRITZ!Powerline 1260E lights up.
3. On the second powerline device: Press the button for secure powerline connections (often labeled “Pairing” or “Security”).

   This starts transmission of the network password.
4. On FRITZ!Powerline 1260E: Press the “Connect” button briefly. All LEDs flash.

5. Wait until the “Powerline” LED lights up.

   FRITZ!Powerline 1260E received the network password and was added to the powerline network.

6. To adopt the wireless LAN settings from the internet router (FRITZ!Box), press the “Connect” button on FRITZ!Powerline 1260E for 6 to 10 seconds.

   All LEDs flash.

7. Start WPS on the internet router so that the wireless LAN settings are transmitted to FRITZ!Powerline 1260E:

FRITZ!Box with Button	Enabling Mesh
“Connect” or “WPS”	Press button briefly.
“WLAN/WPS”	Hold down the button until the “WLAN” button on the FRITZ!Box flashes.

8. Plug FRITZ!Powerline 1260E into a wall socket where you need access to the internet and the home network for your computer and other devices.

FRITZ!Powerline 1260E was added to the powerline network and adopted the wireless LAN settings from the internet router (FRITZ!Box).

Connecting Computers and Other Devices

Overview

Network-compatible devices can be connected with FRITZ!Powerline by LAN cable or wirelessly. Wireless connections are established with WPS or by entering the network key (wireless LAN password).

Network-compatible devices include computers, tablets, smartphones, smart TVs, printers, network storage, IP telephones and LAN hubs/switches.

Instructions: Connecting a Device with a LAN Cable

1. Insert a LAN cable into a LAN socket on the device to be connected.
2. Insert the free end of the cable into the LAN socket on FRITZ!Powerline.

Instructions: Establishing a Wireless LAN Connection Using WPS

WPS is a method for establishing safe wireless connections at the touch of a button. Your wireless device must support WPS.

1. On FRITZ!Powerline: Press the “Connect” button briefly.

   All LEDs flash.
2. Start the WPS on the wireless device, either by pushing a button or in the wireless LAN software.

   The wireless LAN connection will be established.

Instructions: Establishing a Wireless Connection with a Network Key

1. Start the wireless LAN software on the wireless device.
2. Search for wireless networks in the vicinity.

3. Select the wireless network of your internet router (FRITZ!Box) and enter the network key of the internet router.

   If you did not adopt the wireless LAN settings from the internet router, enter the wireless network key printed on the back of the FRITZ!Powerline housing.

4. Start the connection procedure.

Configuring

Overview: Configuring FRITZ!Powerline 1260E 31
Enabling Mesh 32
Adopting Settings from the FRITZ!Box (without Mesh WiFi) 34

Overview: Configuring FRITZ!Powerline 1260E

Overview

The ideal configuration of FRITZ!Powerline depends on your internet router:

Internet Router	FRITZ!Powerline
FRITZ!Box with FRITZ!OS 7.00 or newer	Enable Mesh for FRITZ!Powerline; see page 32.
Another FRITZ!Box or other internet router	If you adopted the wireless settings from the internet router (FRITZ!Box) when you connected FRITZ!Powerline, in most cases FRITZ!Powerline will have the ideal configuration. For more information on this and instructions for adopting the wireless settings after connecting: see page 34.

Enabling Mesh

Overview

Enable Mesh for the FRITZ!Powerline. Mesh combines the individual wireless networks of your FRITZ! devices into a single powerful wireless network with uniform settings. In the Mesh, FRITZ!Powerline adopts the wireless network name, the network key and other wireless LAN settings from the FRITZ!Box.

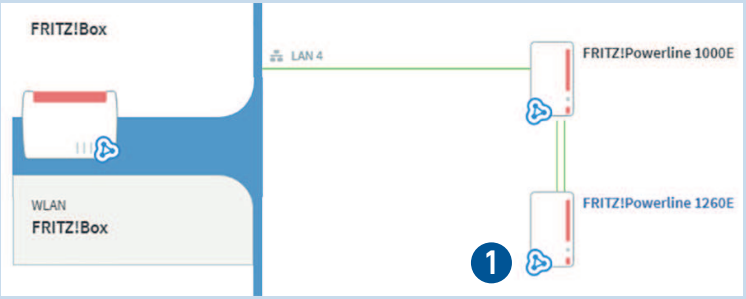
Requirements

- FRITZ!Powerline 1260E is located in the home network of a FRITZ!Box with FRITZ!OS version 7.00 or newer.

Instructions: Enabling Mesh

1. Open the user interface of the FRITZ!Box on a computer in the home network. In the web browser, enter the address http://fritz.box.
2. Select “Home Network / Mesh”.
3. If the FRITZ!Powerline 1260E entry is marked with the "Mesh enabled" icon (1), then Mesh is already enabled.

   If the icon is missing, continue with the next step.



4. If the “Perform Update” button is available next to the FRITZ!Powerline 1260E entry, start the update. Wait until the message “Update was successful” appears.

   If no update is available, continue with the next step.

5. Start activation of Mesh with the touch of a button on the FRITZ!Box:

FRITZ!Box with Button	Enabling Mesh
“Connect” or “WPS”	Press button briefly.
“WLAN/WPS”	Hold down the button until the “WLAN” button on the FRITZ!Box flashes.

6. Briefly touch the “Connect” button on FRITZ!Powerline 1260E.

Mesh will be enabled.

Adopting Settings from the FRITZ!Box (without Mesh WiFi)

Overview

You can adopt the wireless LAN settings of the internet router at the touch of a button. You only need this feature if your internet router is not a FRITZ!Box, or if your FRITZ!Box does not support Mesh.

The wireless LAN settings adopted are the wireless network name (SSID), network key, channel settings, wireless guest access and wireless switching schedule.

Rules

- If you change the wireless LAN settings in the internet router, you will have to adopt the new settings on FRITZ!Powerline again; see page 34.

Advantages of Adopting the Wireless LAN Settings

- When establishing a wireless connection, wireless devices like smartphones, laptops and Smart TVs automatically select the wireless network (FRITZ!Powerline or internet router) with the stronger radio signal.
- If you move to a different location in your home with a wireless device (notebook, for instance), the device switches automatically between the two wireless networks.

Requirements

To adopt the wireless LAN settings from the internet router (FRITZ!Box) at the touch of a button, the following requirement must be met:

- You can start WPS (Wi-Fi Protected Setup) on the internet router. See the documentation of the router for instructions.

Starting WPS on FRITZ!Box

How to start WPS on a FRITZ!Box depends on the buttons on the FRITZ!Box:

FRITZ!Box has	Start WPS
“Connect” button	Press button briefly
“WPS” button	Press button briefly
“WLAN/WPS” button	Hold down the button until the “WLAN” LED on the FRITZ!Box flashes.

Instructions: Adopting Wireless LAN Settings

1. To adopt the wireless LAN settings, plug FRITZ!Powerline 1260E into a wall outlet near the internet router (FRITZ!Box). Wait until the “WLAN” LED lights up.
2. Press the “Connect” button on FRITZ!Powerline for 6 to 10 seconds.

   All LEDs flash.

3. Start WPS on the internet router (FRITZ!Box).

   The wireless LAN settings of the internet router will be transmitted to FRITZ!Powerline.

User Interface

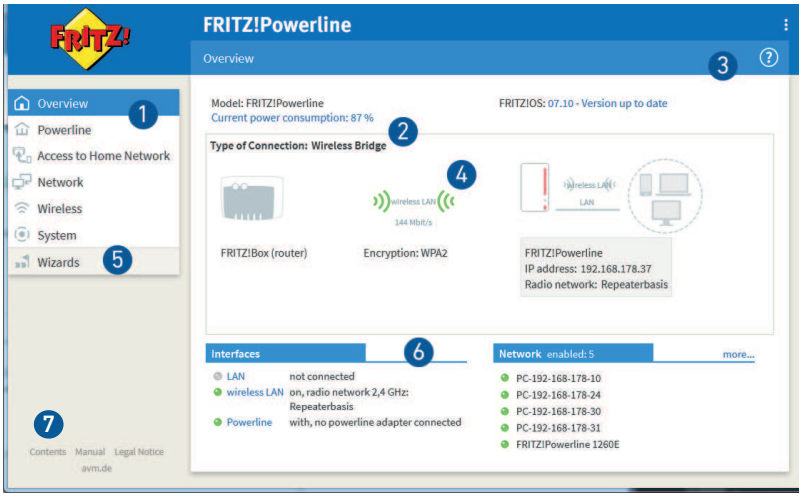
Opening the User Interface 37

Opening the User Interface

Overview

FRITZ!Powerline 1260E has a user interface you can open in a web browser on your computer, tablet or smartphone. In the user interface you can configure FRITZ!Powerline 1260E, enable or disable functions and receive information on connections and interfaces.

Areas of the User Interface

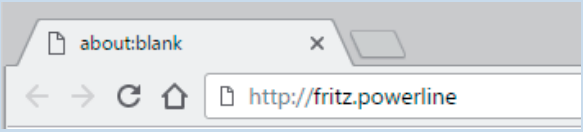


No.	Display / Function
1	Menu
2	System information • Current power consumption • FRITZ!OS installed
3	Link to the online help
4	Type of connection (to the home network)
5	Configuration wizards
6	Connected devices and devices in the home network
7	Links • Contents: all pages in the user interface • Manual: FRITZ!Powerline 1260E (PDF) • en.avm.de: AVM web pages

Instructions: Opening the User Interface (one FRITZ!Powerline device)

If you are using only one FRITZ!Powerline with wireless LAN in the home network of your FRITZ!Box, open the user interface as follows:

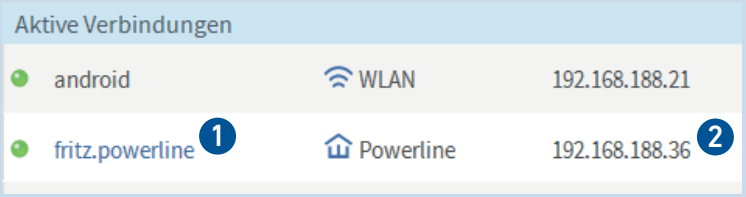
1. Open a web browser on a computer, tablet or smartphone in the home network.
2. Enter the address http://fritz.powerline.



Instructions: Opening the User Interface (multiple FRITZ!Powerline devices)

If you are using multiple FRITZ!Powerline devices with wireless LAN in the home network of your FRITZ!Box, open the user interface as follows:

1. Open a web browser on a computer, tablet or smartphone in the home network.
2. Enter the address http://fritz.box.
3. In the user interface of the FRITZ!Box, select “Home Network / Home Network Overview / Network Connections”.
4. Click on the name of a FRITZ!Powerline (1) or enter its IP address (2) in the web browser.



Instructions: Opening the User Interface (Other Internet Router)

If your internet router is not a FRITZ!Box, open the user interface of FRITZ!Powerline as follows:

1. Open the user interface of the internet router.
2. Check the IP address of FRITZ!Powerline 1260E.
3. Enter the IP address in a web browser on a computer, tablet or smartphone.

Instructions: Opening the User Interface (No Connection to the Home Network)

If the FRITZ!Powerline device is not integrated in the home network and does not have a connection to the internet router, then open the user interface as follows:

1. Plug the FRITZ!Powerline device into an outlet.
2. Connect a computer, tablet or smartphone to the FRITZ!Powerline device (see page 28).
3. Open a web browser on your computer and enter the address http://fritz.powerline or 192.168.178.2.

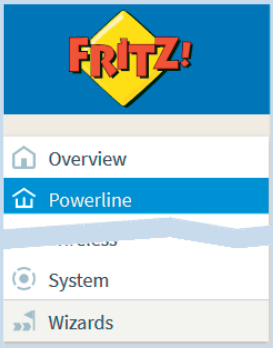
User Interface: Powerline Menu

Powerline Menu: Settings and Features 43
Adding a Powerline Device without Pushing Buttons 44
Resetting the Network Password 45

Powerline Menu: Settings and Features

Overview

In the “Powerline” menu you can integrate new powerline devices into the powerline network without pressing any buttons. You can also restore the unique network password preconfigured in FRITZ!Powerline ex works.



“Powerline” Menu

Adding a Powerline Device without Pushing Buttons

Overview

You can add a new powerline device to the FRITZ!Powerline network without pressing any buttons.

Requirements

- You know the password (also called “DAK”, “DEK” or “DPW”) of the new powerline device. This is often printed on a sticker on the back of the device.

Instructions: Integrating a Powerline Device

1. Open the user interface.
2. Select “Powerline”.
3. For instructions, open the online help ?.

Resetting the Network Password

Overview

A unique password is set in your FRITZ!Powerline upon delivery. In the powerline network, however, FRITZ!Powerline receives the same password as the other powerline devices. This is why you can reset the network password. Use this function, for instance, when you remove FRITZ!Powerline from a powerline network in order to set up a new network.

Rules

During this process the powerline connection to other devices may be lost. In this case, the powerline network will have to be reconfigured.

Instructions: Resetting the Network Password

1. Open the user interface.
2. Select “Powerline”.
3. Click on “Reset”.

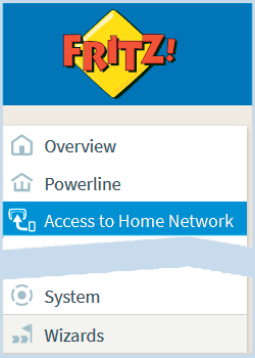
User Interface: Access to Home Network Menu

Access to Home Network Menu: Settings and Features 47
Configuring FRITZ!Powerline As a Wireless Repeater 48
Connecting FRITZ!Powerline to FRITZ!Box with a LAN Cable 50

Access to Home Network Menu: Settings and Features

Overview

In the “Access to Home Network” menu you can change the kind of access to the home network. If you do not wish to configure a power-line network, you can configure FRITZ!Powerline as a wireless repeater or connect it with your FRITZ!Box (or another internet router) via LAN cable.



“Access to Home Network” menu

Configuring FRITZ!Powerline As a Wireless Repeater

Overview

You can connect FRITZ!Powerline with your FRITZ!Box (or another router) via wireless LAN. Then FRITZ!Powerline works as a wireless repeater, using wireless LAN for the connection to the FRITZ!Box and for data transmission to smartphones and other wireless devices. No data are transmitted over the electrical wiring.

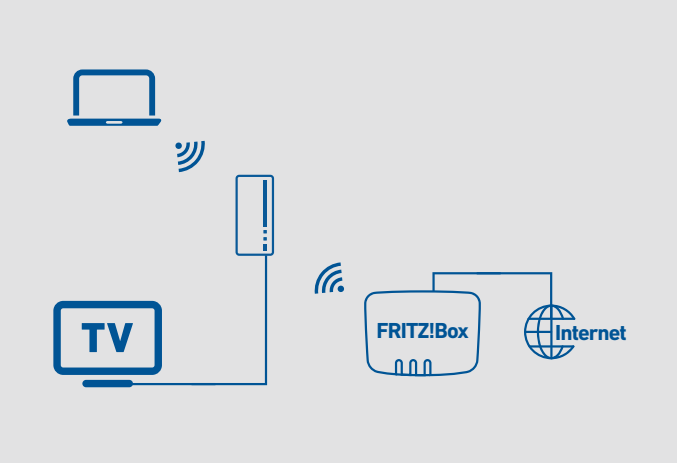
Requirements

- FRITZ!Powerline is deployed at a location where the wireless signal of the FRITZ!Box is received in good quality.

Example

FRITZ!Powerline cannot be used in a powerline network. No other powerline devices are available.

Example Configuration: FRITZ!Powerline As a Wireless Repeater



Instructions: Configuring FRITZ!Powerline As a Wireless Repeater

1. Open the user interface.
2. Select “Access to Home Network”.
3. For instructions, open the online help .

Connecting FRITZ!Powerline to FRITZ!Box with a LAN Cable

Overview

You can connect FRITZ!Powerline to your FRITZ!Box (or another internet router) with a LAN cable.

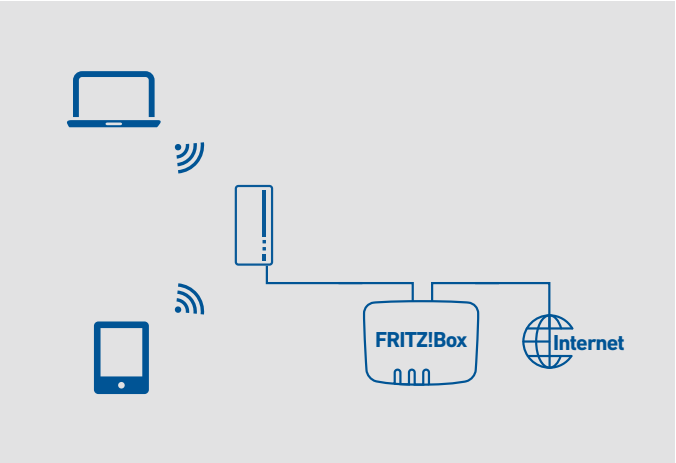
Example

Via FRITZ!Powerline, wireless devices are to receive access to an internet router that does not have wireless LAN.

Example

You would like to use LAN wiring in your home for data transmission rather than the electrical wiring.

Example Configuration: LAN Connection to the FRITZ!Box



Instructions: Connecting with a LAN Cable

1. Open the user interface.
2. Select “Access to Home Network”.
3. For instructions, open the online help ?.

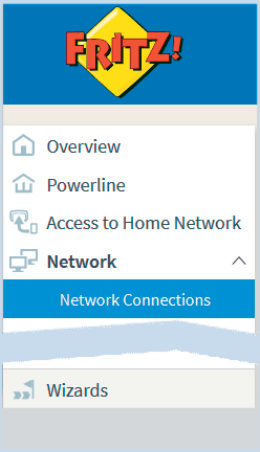
User Interface: Network

Network Menu: Settings and Features 52
Configuring the IP Address Manually 53

Network Menu: Settings and Features

Overview

The “Network” menu presents you an overview of the network devices connected with FRITZ!Powerline 1260E in the network. You can also define an IP address for FRITZ!Powerline manually.



“Network” menu

Description of the Submenus

The online help of the user interface includes a detailed description of the submenus.

Configuring the IP Address Manually

Overview

In the default setting, FRITZ!Powerline 1260E automatically obtains an IP address from the router (FRITZ!Box). You can also define the IP address for FRITZ!Powerline manually.

Application Scenario

- FRITZ!Powerline 1260E is to be used in a home network where there is no DHCP server to assign IP addresses automatically.

Instructions: Configuring the IP Address Manually

1. Open the user interface.
2. Select “Network / Network Settings”.
3. For instructions, open the online help ?.

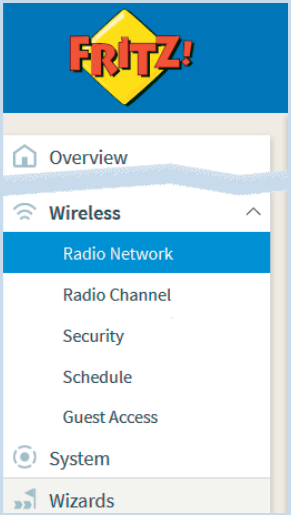
User Interface: Wireless Menu

Wireless Menu: Settings and Features 55
FRITZ!Powerline Adopts Wireless LAN Settings from the Mesh 56
Changing the Name of the Wireless Network (SSID) 57
Selecting the WiFi Channel 58
Configuring Wireless Guest Access 59
Configuring a Schedule for the Wireless Network 61
Switching the Wireless Network On and Off 62

Wireless Menu: Settings and Features

Overview

In the “Wireless” menu you can change the security settings of the wireless network. You can also configure a switching schedule and wireless guest access.



“Wireless” menu

Description of the Submenus

The online help of the user interface includes a detailed description of the submenus.

FRITZ!Powerline Adopts Wireless LAN Settings from the Mesh

Overview

When Mesh is enabled for FRITZ!Powerline (see Enabling Mesh, page 32), FRITZ!Powerline automatically adopts the following settings from the FRITZ!Box:

- Wireless network name (SSID)
- Network key
- Wireless channel settings
- Wireless guest access
- Wireless LAN schedule

You can disable automatic adoption of the wireless LAN settings, for instance, to set up your own wireless LAN schedule for FRITZ!Powerline.

Instructions: Disabling Adoption of the Wireless LAN Settings

1. Open the user interface.
2. Select “Access to Home Network”.
3. Disable the “Adopt settings enabled” checkbox under “Automatically adopt wireless LAN settings from the FRITZ!Box (Mesh WiFi)”.
4. Click on “Apply”.

Changing the Name of the Wireless Network (SSID)

Overview

You can change the name of the wireless network (SSID) of your FRITZ!Powerline.

Example

FRITZ!Powerline has the same SSID as your internet router (FRITZ!Box), but you would specifically like to select the wireless network of FRITZ!Powerline on a wireless device.

Rules

- If FRITZ!Powerline has a different SSID than your internet router, no roaming is possible. A wireless device that is moved in the home cannot switch automatically between the wireless networks of FRITZ!Powerline and the internet router.

Instructions: Changing the Name of the Wireless Network (SSID)

1. Open the user interface.
2. Select “Wireless / Radio Network”.
3. For instructions, open the online help ?.

Selecting the WiFi Channel

Overview

In the default setting FRITZ!Powerline checks your wireless environment and automatically selects the optimum WiFi channel settings. In some cases it may be necessary to adjust these WiFi channel settings.

Automatic Configuration of the Wireless Channel Settings by the FRITZ!Box

With the “Set WiFi channel settings automatically” (auto channel) setting, the FRITZ!Powerline automatically searches for a channel subject to the least interference. This process takes into consideration adjacent wireless networks and other sources of interference (for instance baby monitors, microwave ovens). Should problems with interference in the wireless LAN persist despite this setting, try to identify the source of interference and eliminate it.

Instructions: Adjusting the WiFi Channel Settings

1. Open the user interface.
2. Select “Wireless / Radio/Wi-Fi Channel”.
3. For instructions, open the online help ?.

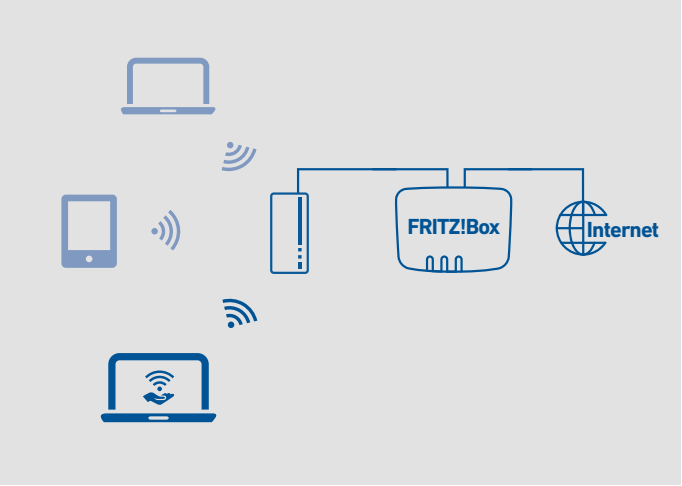
Configuring Wireless Guest Access

Overview

If FRITZ!Powerline is connected with a FRITZ!Box, you can set up a wireless guest access for your guests. With this your guests receive an internet connection of their own for their smartphones, tablets or laptops. Access to other devices in the home network (for instance, shared files, printers) is not possible from the guest network. No settings on the FRITZ!Box or FRITZ!Powerline can be changed via the guest access.

By default, FRITZ!Powerline makes available the guest access configured in the FRITZ!Box. You can also configure your own guest access for FRITZ!Powerline.

Example Configuration



Requirements

- FRITZ!Powerline is located in the home network of a FRITZ!Box.

Instructions: Configuring Wireless Guest Access

1. Open the user interface.
2. Select “Wireless / Guest Access”.
3. For instructions, open the online help ?.

Configuring a Schedule for the Wireless Network

Overview

If there are regular times when you do not use wireless LAN, you can set up a switching schedule for the wireless network. This way you reduce both power consumption and wireless radiation.

Instructions: Configuring a Schedule

1. Open the user interface.
2. Select “Wireless / Schedule”.
3. For instructions, open the online help .

Switching the Wireless Network On and Off

Overview

You can switch the wireless network on and off.

Example

You are using only the powerline function and the LAN port of FRITZ!Powerline. To save power, you would like to switch off the wireless network.

Instructions: Switching Wireless LAN On and Off in the User Interface

1. Open the user interface.
2. Select “Wireless / Radio Network”.
3. Switch wireless LAN on: Enable the “Wireless radio network enabled” checkbox.

   Switch wireless LAN off: Disable the “Wireless radio network enabled” checkbox.
4. Click on “Apply”.

Instructions: Switching Wireless LAN on by Button

1. Press the Connect key.

User Interface: System Menu

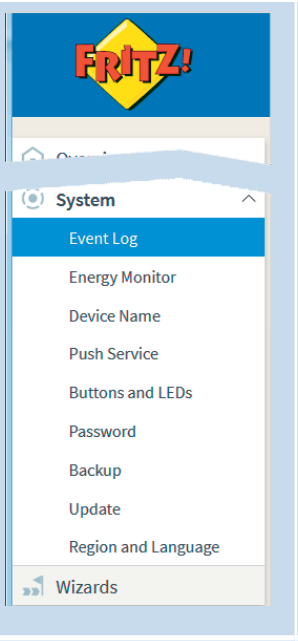
System Menu: Settings and Features 64
Configuring Push Services 65
Switching LED Display On and Off 67
Enabling and Disabling the Button Lock 68
Configuring a FRITZ!Powerline Password 69
Saving Settings 71
Loading Settings 72
Updating FRITZ!OS 73
Restoring Factory Settings 75

System Menu: Settings and Features

Overview

The “System” menu displays system-relevant events and provides information about the power consumption of FRITZ!Powerline 1260E. You can assign a device name and configure push services, which inform you by email about the activities of your FRITZ!Powerline. You can switch the LEDs on FRITZ!Powerline on and off.

You can also change the password for the user interface, back up your settings, and specify how FRITZ!OS is updated.



“System” menu

Description of the Submenus

The online help of the user interface includes a detailed description of the submenus.

Configuring Push Services

Overview

You can configure various push services. Push services are notification services that inform you by email about the activities of FRITZ!Powerline and assist you with configuration and operation.

Available Push Services

You can request push service mails to notify you about the following activities:

Push Service	Function
FRITZ!Powerline info	Sends you regular email messages with data usage and connections
Wireless guest access	Sends a message whenever devices register with or deregister from the wireless guest access
New FRITZ!OS	Informs you about new FRITZ!OS updates
Forgot password	Sends you an access link to the specified email address if you have forgotten your password
Save settings	Before every update, and every time the factory settings are restored: FRITZ!Powerline generates a backup file of the settings and sends the file to the specified email address
Change Notice	Sends you an email every time changes are made to a setting or when potentially security-relevant events occur.

Instructions: Configuring Push Service

1. Open the user interface.

2. Select “System / Push Service”.
3. For instructions, open the online help .

Switching LED Display On and Off

Overview

The LEDs inform you about the status of FRITZ!Powerline. If the LEDs are distracting, for instance because they are located next to a TV or in the bedroom, you can switch off the LED display.

Instructions: Switching LED Display On and Off

1. Open the user interface.
2. Select “System / Buttons and LEDs / LED Display”.
3. For instructions, open the online help .

Enabling and Disabling the Button Lock

Overview

To prevent accidental or unauthorized operation, you can lock the button on FRITZ!Powerline.

Instructions: Enabling and Disabling the Button Lock

1. Open the user interface.
2. Select “System / Buttons and LEDs / Keylock”.
3. For instructions, open the online help ?.

Configuring a FRITZ!Powerline Password

Overview

Set up a FRITZ!Powerline password so that FRITZ!Powerline is protected even when there is no connection to the home network of your FRITZ!Box.

Rules for Passwords

Comply with the following rules for setting passwords:

- Select a password with at least twelve characters, which includes capitals and lower-case letters as well as numerals and special characters.

Characters allowed	Illegal characters
• Letters from a to z in lower case and upper case	• The letter ß • Umlauts ä, ö, ü in upper and lower case
• Numerals 0 to 9	
• Spaces	
• Special characters: _ - ! " # $ % & ' ( ) * + , . / : ; < = > ? @ [\ ] ^ ‘ { | } ~	special characters: § ´

- Configure the “Forgot password” push service. When you have forgotten a password, FRITZ!Powerline sends an access link to the email address you specified. Using this link you can set a new password.

If you lose your FRITZ!Powerline password and did not configure the “Forgot password” push service, you will have to restore the factory settings to FRITZ!Powerline.

Instructions: Configuring a FRITZ!Powerline Password

1. Open the user interface.
2. Go to the “System / Password” menu.
3. For instructions, open the online help ?.

Saving Settings

Overview

All of the settings on your FRITZ!Powerline device can be saved in a file. With this backup file you can restore the settings to the same FRITZ!Powerline device or load your settings to another FRITZ!Powerline device. This device must be the same FRITZ!Powerline model.

If you configure the “Save Settings” push service, the settings are saved automatically before every FRITZ!OS update, and every time the factory settings are restored.

Instructions: Saving Settings

1. Open the user interface.
2. Select “System / Backup / Save”.
3. For instructions, open the online help ?.

Loading Settings

Overview

FRITZ!Powerline settings you have previously saved can be restored.

- You can restore the settings to the same FRITZ!Powerline device.
- You can load the settings to another FRITZ!Powerline device.

Requirements

If you would like to load the settings saved from one FRITZ!Powerline device to another FRITZ!Powerline device, the following prerequisite must be met:

- Both devices must be the same FRITZ!Powerline model.

Instructions: Loading Settings

1. Open the user interface.
2. Select “System / Backup / Restore”.
3. For instructions, open the online help ?.

Updating FRITZ!OS

Overview

FRITZ!OS is the software of FRITZ!Powerline. At regular intervals, AVM provides free FRITZ!OS updates with improvements, security updates and even new features. You can update FRITZ!OS online and even without an internet connection for FRITZ!Powerline. With the “Auto Update” feature you can specify whether important updates are installed automatically.

For secure, reliable use of your FRITZ!Powerline we recommend updating the FRITZ!OS regularly.

Instructions: Updating FRITZ!OS by Wizard

1. Open the user interface.
2. Select “System / Update / FRITZ!OS Version”.
3. For instructions, open the online help .

Instructions: Updating FRITZ!OS without an Internet Connection

1. On a computer with an internet connection: Open the following address in the browser: ftp.avm.de.
2. Navigate through the following folders: “fritzpowerline”, your FRITZ!Powerline model and “other”.
3. Download the FRITZ!OS file with the file extension “.image” to the computer.
4. Open the user interface.
5. Select “System / Update / FRITZ!OS File”.
6. Enter a password, click on “Save Settings”, and select a storage location for the backup file with your FRITZ!Powerline settings.
7. Click on the “Browse...” button and select the FRITZ!OS file you downloaded.
8. Click on “Start Update”.

The Auto Update Function

With the “Auto Update” feature you can define whether the FRITZ!Powerline installs certain updates automatically. The following methods are available:

Procedure	Description
Notify about new FRITZ!OS versions	FRITZ!Powerline indicates new FRITZ!OS updates in the overview of the user interface.
Notify me about new versions of FRITZ!OS and install necessary updates automatically (recommended)	Updates which AVM has identified as necessary for continued secure and reliable operation will be installed automatically.

Instructions: Configuring Automatic Updates

1. Open the user interface.
2. Select “System / Update / Auto Update”.
3. For instructions, open the online help ?.

Restoring Factory Settings

Overview

You can restore factory settings to FRITZ!Powerline.

Application Scenario

Reset FRITZ!Powerline in the following cases, for instance:

- You forgot the password for the FRITZ!Powerline user interface.
- FRITZ!Powerline is to be passed on to other users.
- FRITZ!Powerline is to be disposed of.

Consequences of Resetting

Restoring the factory settings has the following effect:

- All of the settings are reset to the preconfigured values. The installed version of FRITZ!OS remains intact.
- The device name is reset to fritz.powerline.
- The FRITZ!Powerline password is reset.

Instructions: Restoring Factory Settings in the Web Browser

1. Open the user interface.
2. Select “System / Backup”.
3. Select the “Factory Settings” tab.
4. Click on the “Load Factory Settings” button.

Instructions: Restoring Factory Settings by Button

1. Press the button for at least 15 seconds.

The FRITZ!Powerline Program

The FRITZ!Powerline Program: Settings and Features 77
Finding the Best Outlet 79
Changing the Network Password 80

The FRITZ!Powerline Program: Settings and Features

Overview

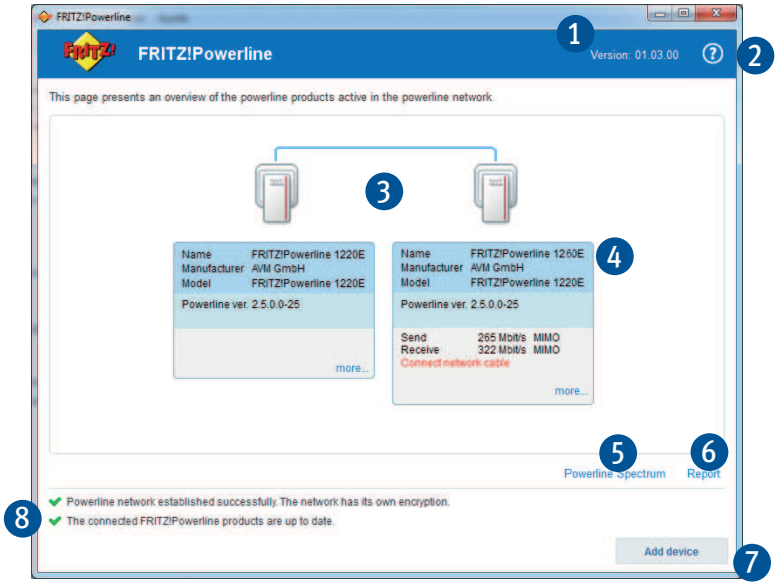
With the FRITZ!Powerline program you can configure your powerline network. You can compare the transmission rates at various outlets, add powerline devices to the network, and change the network password. You can also restore the factory settings to FRITZ!Powerline devices.

The program is available for Windows 10, 8, and 7, and for Mac OS.

Instructions: Installing the FRITZ!Powerline Program

1. Download the program from the en.avm.de/nc/service/downloads website.
2. Save the program on a computer located in the home network with your FRITZ!Powerline devices.
3. Start installation by double-clicking on the downloaded file.

The Control Software's User Interface



No.	Display / Function
1	Program version
2	Help
3	Overview of powerline devices
4	For FRITZ!Powerline devices with wireless LAN: Link to the user interface
5	Powerline spectrum
6	Report with information on powerline devices and connections
7	Add new powerline device to the network
8	Status of the powerline network and software version of the FRITZ!Powerline devices

Finding the Best Outlet

Overview

The FRITZ!Powerline program shows the data rates in the send and receive directions (gross data rates in Mbit/s) for each FRITZ!Powerline device. The data rates can vary depending on the outlet used.

Instructions: Finding the Best Outlet

1. If multiple outlets could be used for FRITZ!Powerline 1260E, test FRITZ!Powerline on all outlets and compare the data rates.
2. Plug FRITZ!Powerline into the outlet with the highest data rates.

Changing the Network Password

Overview

A powerline network that you configure with FRITZ!Powerline is protected from the outset by a network password. All devices in the network adopt the same password. You can change this password for an individual powerline device or for the entire network.

Example 1

You would like to take individual powerline devices out of the network in order to build several smaller networks from the larger powerline network.

Example 2

The password of the powerline network is to be changed because the old password is no longer secure.

Instructions: Changing the Password of an Individual FRITZ!Powerline

1. Start the FRITZ!Powerline program.
2. Next to the FRITZ!Powerline device that is to receive a new network password, click on “more”.
3. Enter the new password and then click on “OK”.

Instructions: Changing the Password of the Powerline Network

1. Use a LAN cable to connect the FRITZ!Powerline device to a computer on which the FRITZ!Powerline software is installed.
2. Start the FRITZ!Powerline program.

3. Start by working through each of the FRITZ!Powerline devices that are not connected to the computer:

   Click on “more”, enter the new network password and then click on “OK”. Assign the same password to all powerline devices.

4. As the last step, change the network password of the FRITZ!Powerline device that is connected to the computer by LAN cable.

Appendix

Technical Specifications 83
Legal 86
Information on Cleaning 91
Disposal 92

Technical Specifications

Device Properties

Property	Value
Dimensions (W x H x D)	approx. 67 mm x 132.3 mm x 69.3/32.5 mm (with/without plug)
Supply voltage	230 V / 50 Hz
Weight	186 g
Certification	conforms to CE standards

Ambient Conditions

Property	Value
Operating temperature	0 °C – +40 °C
Relative humidity (operation)	10 % – 90 %

Active Power

Property	Value
Average active power	approx. 6.7 W

Powerline

Property	Value
Range over the Power Lines	up to several hundred meters
Security	encryption with 128-bit AES (upon delivery) for connecting and communications

Property	Value
Data rate	Up to 1200 Mbit/s (gross, the actual user data rate is lower; the power lines and ambient conditions can also lower the data rate)
Bandwidth	2 – 68 MHz
compatible with	• 200 Mbit/s class powerline devices (HomePlug) • 500 Mbit/s class powerline devices (HomePlug, AV, IEEE P1901) • 1200 Mbit/s class powerline devices (HomePlug AV2)
Quality of Service (QoS)	Data prioritization for video transmission and Internet telephony free of interference

Connectors and Interfaces

Connected via	Interface
LAN	One LAN port over RJ45 socket (standard Ethernet, 10/100/1000 Base-T)
Wireless	Wireless access point with support for wireless LAN radio networks (wireless standard – data rate) • IEEE 802.11a – 54 Mbit/s • IEEE 802.11b – 11 Mbit/s • IEEE 802.11g – 54 Mbit/s • IEEE 802.11n – 300 Mbit/s • IEEE 802.11ac – 866 Mbit/s

Wireless LAN Frequencies

Frequency	Frequency Ranges	Maximum transmitter power
2.4 GHz	2400 MHz – 2483 MHz	100 mW
5 GHz	5150 MHz – 5350 MHz	200 mW
	5470 MHz – 5725 MHz	1000 mW

In the 5-GHz band for wireless LAN, the range from 5150 MHz to 5350 MHz is intended only for indoor use. This restriction or requirement is effective in the EU member states AT, BE, BG, CY, CZ, DE, DK, EE, EL, ES, FI, FR, HR, HU, IE, IT, LT, LU, LV, MT, NL, PL, PT, RO, SE, SI, SK, UK.

Legal

Manufacturer's Warranty

We offer a manufacturer's warranty of 2 years on the hardware of this original product. The warranty period begins with the date of purchase by the first end user. Compliance with the warranty period can be proven by submission of the original invoice or comparable documents. This warranty does not restrict your warranty rights based on the contract of sale or other statutory rights.

Within the warranty period, we will remove defects to the product which are demonstrably due to faults in materials or manufacturing. Our warranty does not cover defects which occur due to incorrect installation, improper use, non-observance of instructions in the user manual, normal wear and tear or defects in the environment of the system (third-party hardware or software). We may, at our discretion, repair or replace the defective product. Claims other than the right to the removal of defects which is mentioned in these terms of warranty are not constituted.

We guarantee that the software conforms with general specifications, not, however, that the software meets your individual requirements. Delivery costs will not be reimbursed. Products which have been replaced revert to our ownership. Claims recognized under warranty entail neither an extension or recommencement of the warranty period. If we reject a warranty claim, this claim lapses no later than six months after being rejected by us.

This warranty shall be governed by German substantive law, to the exclusion of the United Nations Convention on Contracts for the International Sale of Goods (CISG).

Legal Notice

This documentation and the software it describes (both now called "software") are protected by copyright.

Please inform us about contents that are erroneous or no longer up to date at info@avm.de.

Software is delivered in machine-readable format only (object code format). Under all AVM intellectual property rights, AVM hereby grants licensee the non-exclusive right to use the software. Unless agreed for a limited time period, the right to use the software is for an unlimited time period. The licensee may create only one copy of the software, which may be used exclusively for backup use. Unless granted by mandatory law (including but not limited to Art. 69 German Copyright Act for decompiling), licensee shall not be entitled to modify, disassemble, reverse engineer, decompile or otherwise alter the software in whole or in part. AVM reserves all intellectual property rights except as expressly granted herein. Licensee shall not be entitled to modify or delete alpha-numerical or other identification codes on data media and shall transfer such identification codes onto any legal backup copy. Without the prior written approval of AVM, licensee shall not be entitled to transmit any information made available herein.

If licensee has received the software not for commercial purposes of resale (end user), licensee shall be obliged to transmit the right to use the software to a third party only in connection with the product license acquired together with the software. In the event that licensee transfers the right to use the software to a third party, licensee shall ensure not to grant further rights to this third party than originally granted to AVM, and licensee shall ensure to impose upon this third party the obligations of the present license terms. In such case, licensee shall not withhold any backup copy. Licensee shall not be entitled to grant sublicenses. In the event licensee transmits the software to a third party, licensee shall be responsible for and shall release AVM insofar from the compliance of export control laws and obligations.

If and insofar AVM provides software for which AVM is only granted a derived right to use (third party software), the license terms for such third party software shall additionally apply and prevail. If and insofar

certain third party software in object code format by Texas Instruments ("TI software") is provided together with this software, licensee may only distribute such TI software pursuant to a written license agreement which restricts use to TI software embedded in the AVM hardware product license acquired together with the software and prohibits (unless granted by mandatory law) copying, reverse engineering, decompiling or disassembling of TI software. If open source software is provided, the license terms for such open source software shall additionally apply and prevail. AVM shall provide licensee with the corresponding source code of relevant open source software, if the respective license terms of the open source software include such obligation. AVM shall inform if the software contains third party software and/or open source software and make available the corresponding license terms on request.

The licensing conditions are presented in the help for the FRITZ!Powerline 1260E user interface under the "Legal Notice" heading.

This documentation and the software have been produced with all due care and checked for correctness in accordance with the best available technology. AVM disclaims all liability and warranties, whether express or implied, relating to this software's quality, performance or suitability for any given purpose which deviates from the performance specifications contained in the software description. AVM will not be liable for damages arising directly or indirectly from the use of the documentation or related software, nor for incidental or consequential damages, except in case of intent or gross negligence. AVM explicitly disclaims all liability for loss of or damage to hardware, software or data in connection with direct or indirect errors or destruction, for cases of damage (including fraud cases) incurred due to deficient or incorrect configurations (including configurations that use insufficient or no password protection) over connections (including, but not limited to broadband connections like DSL, cable/DOCSIS and fiber optic, also including VoIP or SIP connections), and for any and all costs, including

connection charges, related to the software supplied and its documentation or due to incorrect installations not performed by AVM.

AVM accepts no obligations to perform software service. These require a separate agreement. The information in this documentation and the software it describes are subject to change without notice for the purpose of technical improvement.

Marks: Marks like AVM, FRITZ! and FRITZ!Box (product names and logos) are protected marks owned by AVM GmbH. Microsoft, Windows and the Windows logo are marks owned by Microsoft Corporation in the USA and/or other countries. Apple, App Store, iPhone, iPod and iPad are marks owned by Apple Inc. in the USA and/or other countries. IOS is a mark owned by Cisco Technology Inc. in den USA and/or other countries. Google and Android are marks owned by Google Inc. in the USA and/or other countries. All other product and company names are trademarks of their respective owners.

Copyright

© AVM 2012 - 2019. All rights reserved.

AVM Audiovisuelles Marketing
und Computersysteme GmbH

Alt-Moabit 95

D-10559 Berlin

AVM Computersysteme
Vertriebs GmbH

Alt-Moabit 95

D-10559 Berlin

AVM in the internet: en.avm.de

Declaration of CE Conformity

AVM declares herewith that the device is compliant with the basic requirements and the relevant rules in directives 2014/53/EU, 2009/125/EC and 2011/65/EU.

The long version of the declaration of CE conformity is available at en.avm.de/ce.

Information on Cleaning

Rules

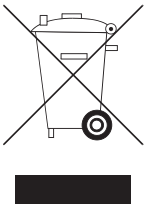
Keep the following rules in mind for cleaning your FRITZ!Powerline:

- Remove FRITZ!Powerline from the mains before cleaning.
- Wipe FRITZ!Powerline with a slightly moist, lint-free cloth or an antistatic cloth.
- Do not use any strong detergents or solvents for cleaning.
- Do not use any wet cloths for cleaning.

Disposal

Disposal of Used Devices

In accordance with European regulations, FRITZ!Powerline, as well as all devices and electronic components contained in the package, may not be disposed with household waste.



After use, please dispose of FRITZ!Powerline and all electronic components and devices included with delivery at a collection point in your local community for the disposal of electric and electronic appliances.

Index

A

active power ... 83
ambient conditions ... 83
auto channel (wireless LAN) ... 58

B

button
  functions ... 15
button lock ... 68

C

cables ... 11
CE conformity declaration ... 89
choice of location ... 83
cleaning ... 7, 91
configuration ... 37
configuring ... 30
  push services ... 65
  schedule ... 61
connecting ... 19
  computers ... 28
  expanding powerline network ... 26
  network devices ... 28
  new powerline network ... 22
connecting computers ... 28
connecting devices ... 28
connection data ... 65
connection socket ... 14
connections ... 14
connectors ... 84
conventions ... 9
copyright ... 89
corporate info ... 89
customer documentation ... 8

D

data
  push services ... 65
  saving ... 71
declaration of CE conformity ... 89
device properties ... 83
disposal ... 92
documentation ... 8

E

email notifications ... 65

F

factory settings ... 15, 75
features ... 12, 13
firmware update ... 73
FRITZ!OS
  loading settings ... 72
  restoring settings ... 72
  saving settings ... 71
  updating ... 73
functions ... 12, 13

G

guest access ... 59
GUI ... 36

H

hazard warnings ... 6
hotspot (wireless LAN) ... 59

I

IP address ... 53

L

LAN bridge ... 50
LAN connection ... 28
LAN socket ... 14
LEDs ... 17
  meaning ... 17
  switching on/off ... 67
LEDs flashing ... 17
legal notice ... 86
light-emitting diodes
  meaning ... 17
log files ... 65
log information ... 65

M

manufacturer's warranty ... 86

menus in the user interface
Access to Home Network ... 46
Network ... 51
System ... 63
Wireless ... 54
Mesh ... 32

N
network ... 52
network password
changing ... 80
resetting ... 45
night service ... 61
notification settings ... 65
notifications ... 65
forgot password ... 65
new FRITZ!OS ... 65
wireless guest access ... 65

O
online help ... 8
operating system ... 73
operating system: FRITZ!OS
updating ... 73

P
package contents ... 11
pairing ... 44
password
changing ... 80
configuration ... 69
forgot ... 65, 69
resetting ... 45
setting up ... 69
password rules ... 69
power consumption ... 83
power input ... 83
powerline
adding device ... 44
changing password ... 80
configuring network ... 22, 26
expanding network ... 44
resetting password ... 45
program ... 76
push services ... 65

Q
quick guide ... 8

R
radio network name (SSID) ... 57
recycling ... 92
repeater function ... 48
reset ... 15
resetting ... 75
roaming ... 57

S
safety
safety instructions ... 6
safety instructions ... 6
schedule ... 61
security
FRITZ!OS update ... 73
info mail ... 65
password ... 69
push services ... 65
saving settings ... 71
sending backup file ... 65
setting up ... 30
settings
loading ... 72
notifications ... 65
restoring ... 72
saving ... 71
sending backup file ... 65
software: FRITZ!OS
updating ... 73
SSID ... 57
starting operation ... 19
structure ... 12
support ... 8
symbols ... 9
system settings ... 64

T
technical specifications ... 83
device properties ... 83
wireless LAN frequencies ... 85
troubleshooting ... 8
documentation ... 8

type label..... 10

U

update..... 73
overview..... 73
usage data..... 65
user interface..... 76
factory settings..... 75
firmware update..... 73
opening..... 37
overview..... 36
Powerline menu..... 42
updating FRITZ!OS..... 73

W

warranty..... 86
wireless bridge..... 48
wireless guest access..... 59
wireless LAN
auto channel..... 58
configuring..... 34
configuring wireless network..... 55
connecting a device..... 28
frequencies..... 85
Mesh 32
repeater function..... 48
schedule.....61, 62
switching on and off..... 62
WiFi channel..... 58
WPS 28
wireless LAN frequencies..... 85
wireless LAN frequency ranges..... 85
wireless network
SSID 57
WPS 28