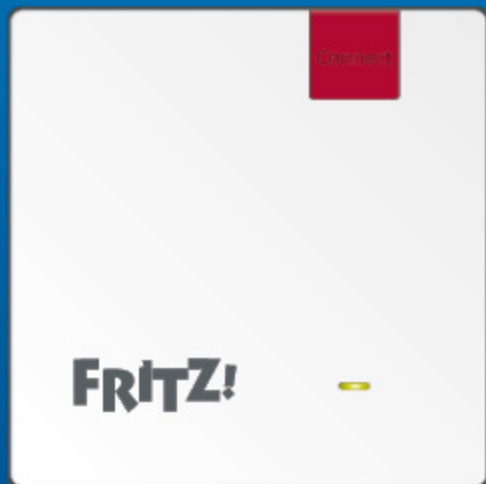


# FRITZ!



## FRITZ!Repeater 1700

**Manual**

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## Safety instructions

Before connecting the FRITZ!Repeater 1700, observe the following security instructions in order to protect yourself, the surroundings, and the FRITZ!Repeater 1700 from harm.

### General safety instructions

- Insert the FRITZ!Repeater into a power socket that is easy to reach, so that you can unplug the FRITZ!Repeater at any time.
- Do not install the FRITZ!Repeater during an electrical storm.
- Only use the FRITZ!Repeater indoors.
- Never let liquids get inside the FRITZ!Repeater.
- Protect the FRITZ!Repeater from vapours and moisture.
- Install the FRITZ!Repeater in a place that is protected from direct sunlight.
- Provide for sufficient air circulation around the FRITZ!Repeater.
- Make sure that the ventilation slots on the housing are always unobstructed.
- Do not cover the FRITZ!Repeater.
- Avoid operation in the direct vicinity of a radiator or heating unit.
- Avoid using power strips and extension cords if at all possible.
- Do not connect multiple extension cords or power strips to each other.

### Improper cleaning

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

- Please refer to the information about cleaning your FRITZ!Repeater; [see page 11](#).

## **Improper opening and repairs**

Improper opening and improper repairs can present a hazard to FRITZ!Repeater users.

- Do not open the FRITZ!Repeater.

# About this manual

## FRITZ!OS version

This manual refers to the version FRITZ!OS 8 or later.

## 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!Repeater 1700.                                           |



# Package contents

## Package contents

| Quant-<br>ity | Supplied part                      |
|---------------|------------------------------------|
| 1             | FRITZ!Repeater 1700                |
| 1             | CEE 7/4 (Schuko) adapter (mounted) |
| 1             | LAN cable                          |
| 1             | Quick guide                        |

# Instructions and help

## Instructions and Help

Use the comprehensive customer documentation to connect, configure, and operate your FRITZ!Repeater 1700.

| Help           | Contents                                                               | City                                                                        |
|----------------|------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| Manual         | Connecting, configuration, and operation<br>The latest FRITZ!OS        | <a href="http://fritz.com/service/manuals">fritz.com/service/manuals</a>    |
| Quick guide    | Connecting and configuration                                           | Printed, included with delivery                                             |
| Online help    | Configuration and operation                                            | User interface<br><a href="http://fritz.repeater">http://fritz.repeater</a> |
| Knowledge Base | Solutions for problems during connection, configuration, and operation | <a href="http://fritz.com/service">fritz.com/service</a>                    |
| Social media   | The latest about the FRITZ!Repeater                                    | <a href="#">YouTube</a>                                                     |
|                |                                                                        | <a href="#">Instagram</a>                                                   |
|                |                                                                        | <a href="#">Facebook</a>                                                    |
|                |                                                                        | <a href="#">Telegram</a>                                                    |
|                |                                                                        | <a href="#">X</a>                                                           |

## Information on cleaning

### Please note

- Remove the FRITZ!Repeater from the mains before cleaning.
- Wipe the FRITZ!Repeater 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.

# Functions and structure

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## Functions

### Mesh Repeater

The FRITZ!Repeater 1700 adds an additional wireless access point to the home network of your FRITZ!Box or of another router.

Via the FRITZ!Repeater, wireless devices get access to the internet even in places where the router's Wi-Fi network is otherwise too weak.

With a FRITZ!Box, the FRITZ!Repeater supports the Mesh technology. Mesh combines the individual Wi-Fi networks of your FRITZ! devices into one big, powerful Wi-Fi network with the same name and network key.

### Dual Wi-Fi

You can use the FRITZ!Repeater 1700 simultaneously in the 5-GHz and 2.4-GHz frequency bands.

### Connecting to the router via Wi-Fi or LAN cable

You can connect the FRITZ!Repeater with your FRITZ!Box or another router via Wi-Fi or connect it to the router using a LAN cable.

When using a LAN cable, you can use the FRITZ!Repeater with a router without Wi-Fi, or in a location where no stable Wi-Fi connection to the router is possible.

### Connecting network devices via Wi-Fi or LAN cable

Computers, smartphones, media receivers and other network devices can be connected to the FRITZ!Repeater via Wi-Fi or using a LAN cable.

Connection with a LAN cable is possible only when the connection to the router (FRITZ!Box) is established via Wi-Fi.

## Router

You can also use the FRITZ!Repeater as a router with the usual FRITZ! functions such as guest access, parental controls and automatic updates.

The FRITZ!Repeater can be connected to a fiber optic modem (ONT), a cable modem, or to any internet router via a LAN cable.

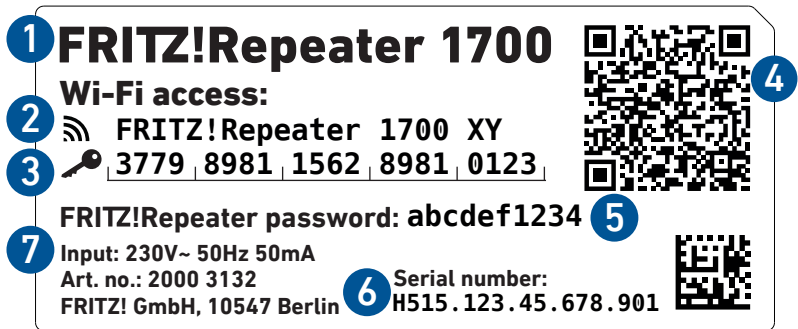
If you have additional FRITZ!Repeaters, you can set up a Mesh Wi-Fi in which the FRITZ!Repeater is the router and the Mesh Master.

## Device data on the type label

Important device data for the FRITZ!Box is presented on the type label on the housing.

Important device data for your FRITZ!Repeater is presented on the type label on the housing.

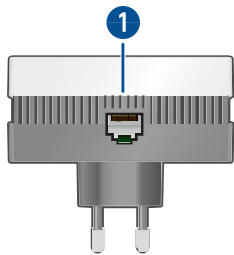
### Type label



| No. | Meaning                                        |
|-----|------------------------------------------------|
| 1   | Product name                                   |
| 2   | Name of Wi-Fi network (SSID)                   |
| 3   | Network key (Wi-Fi password)                   |
| 4   | QR code for the Wi-Fi                          |
| 5   | FRITZ!Repeater password for the user interface |
| 6   | Serial number                                  |
| 7   | Power adapter specification                    |

# connection socket

## Socket function

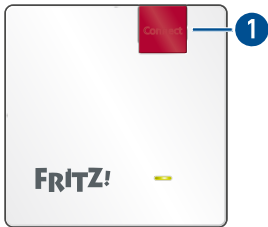


| No. | Name | Function                                                                                                                                                                                                                                        |
|-----|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | LAN  | <div>Ethernet port for:<ul style="list-style-type: none"><li>• Connecting PCs, notebooks, game consoles, smart TVs, and other network-compatible devices</li><li>• Connection to router, fiber optic modem (ONT) or cable modem</li></ul></div> |



# Button

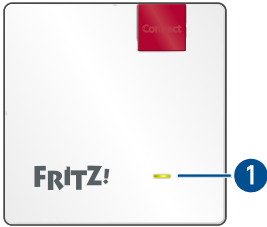
## Button functions



| No | Button  | Press               | Function                                                                                                         |
|----|---------|---------------------|------------------------------------------------------------------------------------------------------------------|
| 1  | Connect | 1 second            | <ul style="list-style-type: none"><li>Establishes a Wi-Fi connection (starts WPS)</li><li>Enables Mesh</li></ul> |
|    |         | at least 15 seconds | Loading the factory settings                                                                                     |

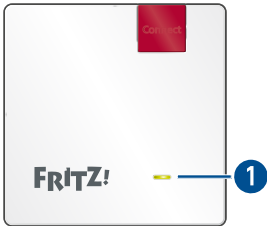
# LED

## Meaning of the LED during Wi-Fi connection to FRITZ!Box, router or extender



| LED 1 | Condition                                  | Meaning                                                                                                                                                                                                                                  |
|-------|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       | green                                      | FRITZ!Repeater ready for operation, good Wi-Fi connection to a router or repeater                                                                                                                                                        |
|       | flashing green slowly<br>(every 2 seconds) | FRITZ!Repeater ready to configure a connection                                                                                                                                                                                           |
|       | flashing green fast<br>(twice per second)  | <ul style="list-style-type: none"><li>• Registering with router</li><li>• Establishing the Wi-Fi connection at the push of a button (performing WPS)</li><li>• FRITZ!OS update in progress.</li><li>• Loading factory settings</li></ul> |
|       | orange                                     | weak Wi-Fi connection to a router or repeater                                                                                                                                                                                            |
|       | flashing orange                            | <ul style="list-style-type: none"><li>• no connection to router or repeater</li></ul>                                                                                                                                                    |
|       | off                                        | <ul style="list-style-type: none"><li>• No electrical power</li><li>• Wi-Fi switched off by Wi-Fi schedule</li></ul>                                                                                                                     |

Meaning of the LED during LAN connection to FRITZ!Box, router or extender



| LED 1                                                                               | Condition                                  | Meaning                                                                                                                                                                                                                                             |
|-------------------------------------------------------------------------------------|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | green                                      | Connection to a router or repeater established                                                                                                                                                                                                      |
|                                                                                     | flashing green slowly<br>(every 2 seconds) | FRITZ!Repeater ready to configure a connection                                                                                                                                                                                                      |
|                                                                                     | flashing green fast<br>(twice per second)  | <ul style="list-style-type: none"><li>• FRITZ!Repeater ready for registration of a wireless device via WPS</li><li>• Integrating a FRITZ! product into the Mesh</li><li>• FRITZ!OS update in progress.</li><li>• Loading factory settings</li></ul> |
|  | flashing orange                            | <ul style="list-style-type: none"><li>• No cable connection to the router</li></ul>                                                                                                                                                                 |
|  | off                                        | No electrical power                                                                                                                                                                                                                                 |

# Connecting

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## Overview: Connecting

Connect the FRITZ!Repeater with your FRITZ!Box or another router. The FRITZ!Repeater adds an additional wireless access point to your home network.

You can establish the connection to the FRITZ!Box or to the other router via Wi-Fi or using a LAN cable.

### Wi-Fi connection type

You can establish a Wi-Fi connection if the FRITZ!Repeater is to be used within the Wi-Fi range of the router.

Once the Wi-Fi connection is configured, you can insert the FRITZ!Repeater into another socket as needed.

The LAN port of the FRITZ!Repeater remains free for connecting a network device without Wi-Fi (an IPTV receiver, for instance).

### LAN cable connection type

If you establish a connection to the router using a LAN cable, you can use the FRITZ!Repeater even where no stable Wi-Fi connection to the router is possible.

You can connect the FRITZ!Repeater directly to the router or via built-in network cabling in your home or flat.

## Establishing a Wi-Fi connection with a FRITZ!Box or another router

You can connect the FRITZ!Repeater with your FRITZ!Box or another router via Wi-Fi.

You can establish the wireless connection at the touch of a button or via the configuration wizard in the user interface of the FRITZ!Repeater.

### Adopting the Wi-Fi settings from the router

- When establishing the Wi-Fi connection, the FRITZ!Repeater adopts the Wi-Fi network name (SSID), the Wi-Fi network key, and the Wi-Fi network encryption from the FRITZ!Box or the other router.
- In the Mesh with FRITZ!, the FRITZ!Repeater also automatically adopts all changes when you change the Wi-Fi settings in the FRITZ!Box (Mesh Master).

### Requirements

- The FRITZ!Repeater has the factory settings configured; [see page 73](#).
- For Wi-Fi connections at the touch of a button with a router from another manufacturer: The router must support WPS (Wi-Fi Protected Setup) and WPS must be enabled.

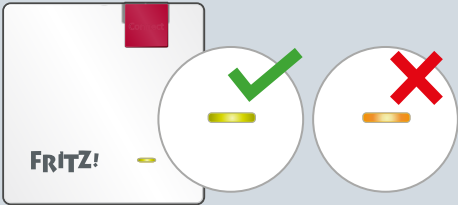
Instructions: Connecting via Wi-Fi at the touch of a button

- 1. Plug the FRITZ!Repeater into a power socket in the vicinity of your FRITZ!Box (router).
- 2. Wait until the  LED starts flashing slowly.
- 3. Press the **Connect** button.  
The  LED flashes faster.
- 4. Start the connection procedure on the FRITZ!Box or the other router within two minutes.

| Router                                                                    | Start connecting                                   |
|---------------------------------------------------------------------------|----------------------------------------------------|
| FRITZ!Box with <b>Connect</b> , <b>Connect/WPS</b> , or <b>WPS</b> button | Press button briefly (1 second)                    |
| FRITZ!Box with the <b>WLAN</b> or <b>WLAN/WPS</b> button                  | Press and hold down button for at least 6 seconds. |
| Other router                                                              | Press the button to start WPS                      |

The Wi-Fi connection has been established when the  LED on the FRITZ!Repeater lights up green.

- 5. Plug the FRITZ!Repeater into a socket where it is to expand the Wi-Fi network.
- 6. The FRITZ!Repeater starts and reestablishes the Wi-Fi connection. Wait 1-2 minutes.
- 7. If the  LED lights up green, the connection has been established and the FRITZ!Repeater is positioned well.  
If the LED lights up or flashes orange, the Wi-Fi connection to the router is weak or could not be established. Test other positions for the FRITZ!Repeater; [see page 28](#).

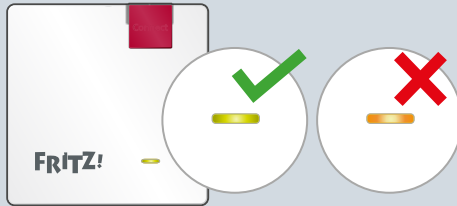


## Instructions: Establishing a Wi-Fi connection with the wizard

1. Plug the FRITZ!Repeater into a power socket in the vicinity of the router.
2. Wait until the  LED starts flashing slowly.
3. Connect a computer to the FRITZ!Repeater using a LAN cable.  
**or**  
Establish a Wi-Fi connection to the FRITZ!Repeater on a computer, tablet or smartphone; [see page 30](#).
4. Enter the address **http://fritz.repeater** in a web browser on a computer.  
The FRITZ!Repeater user interface opens.
5. If asked, set the desired language for the FRITZ!Repeater user interface, and the country where you are using the FRITZ!Repeater.  
The FRITZ!Repeater restarts and the user interface opens again.
6. Assign a password for the FRITZ!Repeater user interface and click on **OK**.  
The configuration wizard appears.
7. Select **Wi-Fi connection** and click on **Next**.
8. Follow the instructions of the configuration wizard until the FRITZ!Repeater configuration is completed.  
When the Wi-Fi connection to the router is established, the  LED lights up.
9. Plug the FRITZ!Repeater into a socket where it is to expand the Wi-Fi network.
10. The FRITZ!Repeater starts and reestablishes the Wi-Fi connection ( LED flashes green). Wait 1-2 minutes.
11. If the  LED lights up green, the connection has been established and the FRITZ!Repeater is positioned well.



If the LED lights up or flashes orange, the Wi-Fi connection to the router is weak or could not be established. Test other positions for the FRITZ!Repeater; [see page 28](#).



12. To connect to a FRITZ!Box with FRITZ!OS 7.00 or later, enable Mesh as well; [see page 33](#).

## Connecting to FRITZ!Box or another router via LAN cable

You can connect the FRITZ!Repeater to your FRITZ!Box or another router with a LAN cable.

### Requirements

- The FRITZ!Repeater has the factory settings configured; see [page 73](#).

### Instructions: Connecting to the FRITZ!Box using a LAN cable (FRITZ!OS 7 or later)

Connect the FRITZ!Repeater as described below if your FRITZ!Box has FRITZ!OS 7 or later.

1. Connect the FRITZ!Repeater to the FRITZ!Box using a LAN cable.
2. Plug the FRITZ!Repeater into a power socket.  
The  LED flashes green. If the LED lights up green, the connection to the FRITZ!Box is established.
3. Press the **Connect** button on the FRITZ!Repeater.  
The  LED flashes faster.
4. You have 2 minutes for this step: Briefly (1 second) press the **Connect**, **Connect/WPS** or **WPS** button on the FRITZ!Box. If the FRITZ!Box does not have any of these buttons, press the **WLAN** or **WLAN/WPS** button for at least 6 seconds. Mesh is enabled and the FRITZ!Repeater adopts the Wi-Fi network name and Wi-Fi network key from the FRITZ!Box.

## Instructions: Configuring the LAN connection to the router using the wizard

Configure the LAN connection using the wizard if your router is not a FRITZ!Box or your FRITZ!Box has a version older than FRITZ!OS 7.

1. Plug the FRITZ!Repeater into a power socket.
2. Wait until the  LED starts flashing slowly.
3. Connect a computer to the FRITZ!Repeater using a LAN cable.  
**or**  
Establish a Wi-Fi connection to the FRITZ!Repeater on a computer, tablet or smartphone; [see page 30](#).
4. Enter the address **http://fritz.repeater** in the browser on the computer.  
The FRITZ!Repeater user interface opens.
5. If asked, set the desired language for the user interface, and the country where you are using the FRITZ!Repeater.  
The FRITZ!Repeater restarts and the user interface opens again.
6. Assign a password for the user interface and click on **OK**.  
The configuration wizard appears.
7. Select **LAN connection** and click on **Next**.
8. Follow the instructions of the configuration wizard until the FRITZ!Repeater configuration is completed.
9. Plug the FRITZ!Repeater into a power socket where you would like to use it.
10. Connect the FRITZ!Repeater to the router using a LAN cable.

## Selecting the optimum location

Keep in mind the following recommendations so that the FRITZ!Repeater can extend your Wi-Fi network optimally.

If you have a FRITZ!Box, you can also use the FRITZ!App WLAN. The **Evaluate Repeater Position** function in the app assists you in selecting the best location for the FRITZ!Repeater.

### Tips for Selecting the Location

- Do not position the FRITZ!Repeater directly behind or under an obstacle (for instance, furniture, radiator). If necessary, you can also plug the FRITZ!Repeater into an extension lead or use it with an extension cord.
- Do not position the FRITZ!Repeater directly in the corner of a room.
- Place the FRITZ!Repeater so that there are as few obstacles as possible between the FRITZ!Repeater and other wireless devices. Coverage is particularly impaired by obstacles that contain metal or water (for instance, radiators, refrigerators, plants).
- Do not position the FRITZ!Repeater close to other transmitting devices (for instance, microwave ovens, wireless speakers, Bluetooth devices).

### Downloading FRITZ!App WLAN

The FRITZ!App WLAN is available free of charge for Android and iOS:

| Google Play Store                                                                   | App Store (iOS)                                                                     |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |

## Instructions: Positioning FRITZ!Repeater with FRITZ!App WLAN

1. Start the FRITZ!App WLAN.
2. Tap on **My Repeaters** under **My Wi-Fi**.
3. Tap on **Evaluate Repeater Position**.  
If the FRITZ!Repeater is not in an optimum position, you will receive tips for improving the Wi-Fi range.

## Connecting a wireless device with FRITZ!Repeater

If the FRITZ!Repeater is set to factory settings, you can connect a computer, tablet or smartphone directly to the FRITZ!Repeater via Wi-Fi.

Then you can use the configuration wizard, for example, to set up the connection with your FRITZ!Box or another router.

You establish the Wi-Fi connection via QR code or using the Wi-Fi network key of the FRITZ!Repeater.

### Instructions: Establishing a Wi-Fi connection with the QR code

1. You need the QR code for Wi-Fi access with the Wi-Fi access information preconfigured for the FRITZ!Repeater.  
This is printed on the back of the quick guide.
2. Open an app on your smartphone or tablet for scanning QR codes.  
Many mobile devices and tablets can scan QR codes using the camera app.
3. Scan the Wi-Fi code of the FRITZ!Repeater.

The mobile device detects the QR code automatically and offers way to establish the Wi-Fi connection.

### Instructions: Establishing a Wi-Fi connection using a network key

1. You require the preset Wi-Fi network name (SSID) and the Wi-Fi network key of the FRITZ!Repeater.  
You will find these on the back of the quick guide and on the type label on the outside of the FRITZ!Repeater housing.
2. On the wireless device, select the Wi-Fi network of the FRITZ!Repeater.
3. Start the connection procedure.
4. Enter the network key of the FRITZ!Repeater.  
The Wi-Fi connection will be established.

# Mesh

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## FRITZ!Repeater in the Mesh

Mesh connects FRITZ! products that support Wi-Fi to form a large, comprehensive Wi-Fi network with a single name and password.

In the Mesh there is one **Mesh Master**. The Mesh Master is the hub in the Mesh and can be a FRITZ!Box or a FRITZ!Repeater.

All other FRITZ! devices in the Mesh are **Mesh Repeaters**.

### Properties in the Mesh

- Mesh Repeaters automatically adopt the following settings from the Mesh Master: Wi-Fi network name (SSID), Wi-Fi network key (password), Wi-Fi encryption, Wi-Fi guest access, and the Wi-Fi schedule.

The settings for automatic updates and push services are also adopted.

- Updates for the FRITZ!Repeater and other FRITZ! devices in the Mesh can be performed centrally in the user interface of the Mesh Master.
- You can connect multiple Mesh Repeaters (in series) to extend the Wi-Fi range in a certain direction; [see page 34](#).
- With Mesh Wi-Fi steering, wireless devices in the Mesh always connect to the home network via the best access point.



# Enable Mesh

After connecting, check whether Mesh has been enabled for the FRITZ!Repeater. If this is not the case, enable Mesh.

## Requirements

- The FRITZ!Repeater is connected to the home network of a FRITZ!Box (FRITZ!OS 7.00 or later) or with a FRITZ!Repeater (FRITZ!OS 7.80 or later).

## Instructions: Checking whether Mesh is enabled

1. Open the FRITZ!Box user interface. To do this, enter the address **http://fritz.box** in the browser.
  2. Click on **Home Network > Mesh** in the menu.
  3. Check whether the FRITZ!Repeater is displayed in the Mesh Overview with the **Mesh enabled**  symbol.
  4. If the symbol is missing, then enable Mesh.

## Instructions: Enabling Mesh

1. Press the **Connect** button on the FRITZ!Repeater briefly.  
The  LED flashes.
  2. Within 2 minutes, start Mesh activation on the Mesh Master:

| Mesh Master                                                               | Start Mesh activation                             |
|---------------------------------------------------------------------------|---------------------------------------------------|
| FRITZ!Box with <b>Connect</b> , <b>Connect/WPS</b> , or <b>WPS</b> button | Press button briefly (1 second)                   |
| FRITZ!Box with the <b>WLAN</b> or <b>WLAN/WPS</b> button                  | Press and hold down button for at least 6 seconds |
| FRITZ!Repeater with <b>Connect</b> button                                 | Press button briefly (1 second)                   |

## FRITZ!Repeater Cascading with a Mesh Repeater

In the FRITZ! Mesh you can connect several FRITZ! devices in series as Mesh Repeaters in order to expand the Wi-Fi network in one direction. A Mesh Repeater can be a FRITZ!Repeater, a FRITZ!Powerline device with Wi-Fi, or a FRITZ!Box.

### Please note

- To enable data to be transported quickly to the Mesh Master without bottlenecks, cascade more powerful Mesh Repeaters upstream from less powerful ones. You connect the most powerful Mesh Repeater with the Mesh Master.
- Tri-band repeaters (for example, FRITZ!Repeater 6000) are the most powerful. Next come dual-band repeaters (for example, FRITZ!Repeater 2400), with the least powerful being single-band repeaters (for example, FRITZ!Repeater 600).

### Requirements

- There is already one Mesh Repeater in the Mesh.
- For the existing Mesh Repeater, Mesh is enabled, [see page 33](#), and automatic adoption of the Mesh settings is enabled in the device's user interface under **Access to Home Network**.
- The FRITZ!Repeater to be connected to the existing Mesh Repeater is configured to the factory settings; [see Restoring Factory Settings to the FRITZ!Repeater, page 73](#).

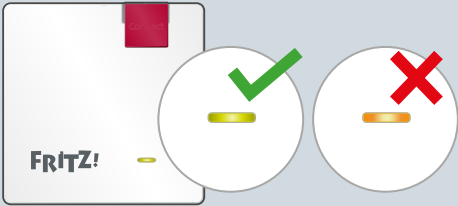
### Instructions: Connecting the FRITZ!Repeater to another Mesh Repeater

1. Plug the FRITZ!Repeater into a power socket in the vicinity of the other Mesh Repeater.
2. Wait until the  LED starts flashing slowly.
3. Press the **Connect** button.  
The  LED flashes faster.

4. On the other Mesh Repeater: Start the connection procedure:

| Mesh Repeater                                                                | Start connecting                                  |
|------------------------------------------------------------------------------|---------------------------------------------------|
| FRITZ!Box with the <b>Connect</b> or <b>Connect/WPS</b> or <b>WPS</b> button | Press button briefly (1 second)                   |
| FRITZ!Box with the <b>WLAN</b> or <b>WLAN/WPS</b> button                     | Press and hold down button for at least 6 seconds |
| FRITZ!Repeater                                                               | Press button briefly (1 second)                   |
| FRITZ!Powerline                                                              | Press button briefly (1 second)                   |

5. Wait until the  LED on the FRITZ!Repeater lights up green.  
The Wi-Fi connection to the other Mesh Repeater has been established.
6. Plug the FRITZ!Repeater into a socket where it is to expand the Wi-Fi network.
7. The FRITZ!Repeater starts and restores the connection to the other Mesh Repeater ( LED flashes green). Wait 1-2 minutes.
8. Check the  LED:  
If the LED is green, then the connection has been established and the FRITZ!Repeater is positioned well.  
If the LED is orange or flashing orange, then the Wi-Fi connection to the FRITZ!Box is weak (orange) or could not be established (flashing orange). Test outlets at other locations; [see page 28](#).



9. Enable Mesh for the newly configured FRITZ!Repeater; [see page 33](#).

# Using FRITZ!Repeater as a router

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Configuring FRITZ!Repeater on an internet router ..... 43

## Overview: Using FRITZ!Repeater as a router

The FRITZ!Repeater can extend the home network of a FRITZ!Box or of another router, or it can be used as a router itself.

Operation as a router is possible on the following internet connections:

- Any internet connection with an internet router
- Fiber optic connection with fiber optic modem (ONT)
- Cable connection with cable modem

### Features

As a router, the FRITZ!Repeater makes the internet connection available to all devices in the home network.

The FRITZ!Repeater assigns the IP settings to devices in the home network and makes the following features available:

- Firewall
- Parental controls
- Wi-Fi guest access
- Port sharing
- Prioritization
- VPN connections

## Configuring FRITZ!Repeater on a fiber optic connection

You can use the FRITZ!Repeater as a router that establishes the internet connection via a fiber optic modem (ONT) and makes it available to all devices in the home network.

Connect the FRITZ!Repeater to your fiber optic modem (ONT) and configure the FRITZ!Repeater for operation as a router.

### Requirements

- The FRITZ!Repeater has the factory settings configured.

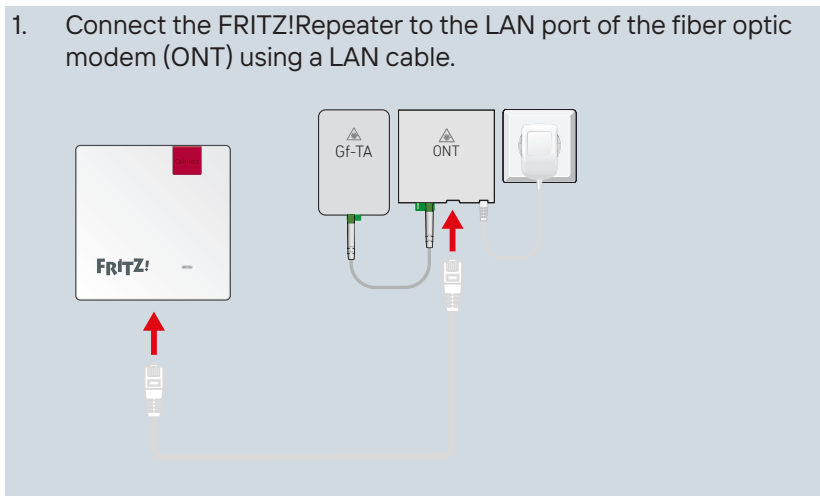
If the FRITZ!Repeater was already connected by LAN cable or started operation, reset it; [see page 73](#).



A FRITZ!Repeater no longer has the factory settings configured if it has been connected by LAN cable to a device, for instance a PC, notebook, or other FRITZ!Repeater.

### Instructions: Connecting the FRITZ!Repeater to a fiber optic modem (ONT)

1. Connect the FRITZ!Repeater to the LAN port of the fiber optic modem (ONT) using a LAN cable.



## Instructions: Configuring the FRITZ!Repeater

1. Plug the FRITZ!Repeater into a power socket.  
The  LED flashes green.
2. Connect a computer to the FRITZ!Repeater using a LAN cable.  
**or**  
Establish a Wi-Fi connection to the FRITZ!Repeater on a computer, tablet or smartphone; [see page 30](#).
3. Enter the address **http://fritz.repeater** in the browser on the computer or mobile device.  
The FRITZ!Repeater user interface opens.
4. Enter the FRITZ!Repeater password.  
The password is printed on the back of the quick guide and on the type label on the outside of the FRITZ!Repeater housing.
5. Click in the menu on **Internet > Account Information**.
6. Select your internet service provider in the drop-down list. If your internet service provider is not available in the list, select the **other internet service provider** entry.
7. If account information is required, enter the account information you received from your internet service provider.
8. If you selected **other internet service provider** and account information is not required, enable the **No** option under **Account Information**.
9. If you selected **other internet service provider** and your internet service provider requires you to use a particular VLAN ID: Click on **Change Connection Settings**, enable **Use VLAN for internet access**, and enter the VLAN ID.
10. Enter the values for your internet connection under **Downstream** and **Upstream**.
11. Save your settings by clicking on **Apply**.

## Setting up the FRITZ!Repeater for use with a cable connection

You can use the FRITZ!Repeater as a router that establishes the internet connection via a cable connection and makes it available to all devices in the home network.

For this you also require a cable modem along with the FRITZ!Repeater.

Connect the FRITZ!Repeater to your cable modem and configure the FRITZ!Repeater for operation as a router.

### Requirements

- The cable modem is connected to the first multimedia socket or to the socket that the cable technician used for the original installation.

---

#### Tip

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Use the coaxial cable (without an extension) provided by the cable technician.

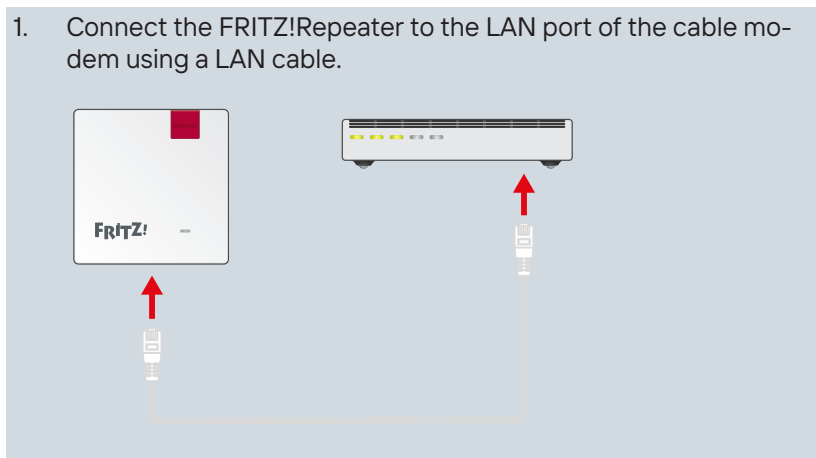
---

- The FRITZ!Repeater has the factory settings configured.  
If the FRITZ!Repeater was already connected by LAN cable or started operation, reset it; [see page 73](#).



## Instructions: Connecting the FRITZ!Repeater to a cable modem

1. Connect the FRITZ!Repeater to the LAN port of the cable modem using a LAN cable.



## Instructions: Configuring the FRITZ!Repeater

1. Plug the FRITZ!Repeater into a power socket.  
The  LED flashes green.
2. Connect a computer to the FRITZ!Repeater using a LAN cable.  
**or**  
Establish a Wi-Fi connection to the FRITZ!Repeater on a computer, tablet or smartphone; [see page 30](#).
3. Enter the address **http://fritz.repeater** in the browser on the computer or mobile device.  
The FRITZ!Repeater user interface opens.
4. Enter the FRITZ!Repeater password.  
The password is printed on the back of the quick guide and on the type label on the outside of the FRITZ!Repeater housing.
5. Click in the menu on **Internet > Account Information**.
6. Select **connection to an external modem or router** from the **Internet connection via** drop-down list.

7. Enter the values for your internet connection under **Downstream** and **Upstream**.
8. Save your settings by clicking on **Apply**.

## Configuring FRITZ!Repeater on an internet router

You can configure the FRITZ!Repeater behind an internet router as a router and Mesh Master.

The FRITZ!Repeater uses the existing internet connection and you can configure a powerful Mesh Wi-Fi with additional FRITZ! devices (FRITZ!Repeater, FRITZ!Powerline).

Connect the FRITZ!Repeater to the internet router and configure the FRITZ!Repeater for operation as a router and Mesh Master.

### Please note

- If the FRITZ!Repeater is configured as a router, then smartphones, computers, and other devices in the home network receive their IP settings from this FRITZ!Repeater.
- You can use the firewall, parental controls, Wi-Fi guest access, prioritization, and all other functions of the FRITZ!Repeater.
- Devices in the FRITZ!Repeater home network cannot access devices in the network of the internet router, and vice versa.
- Functions that require a public IP address (for example, port sharing and incoming VPN connections), cannot be used in the FRITZ!Repeater home network.
- We recommend switching off the Wi-Fi network permanently on the internet router. The FRITZ! devices provide a powerful Mesh Wi-Fi. If the Wi-Fi network of the internet router remains switched on, wireless devices can still connect to the internet router without benefiting from the advantages of the Mesh technology.

## Requirements

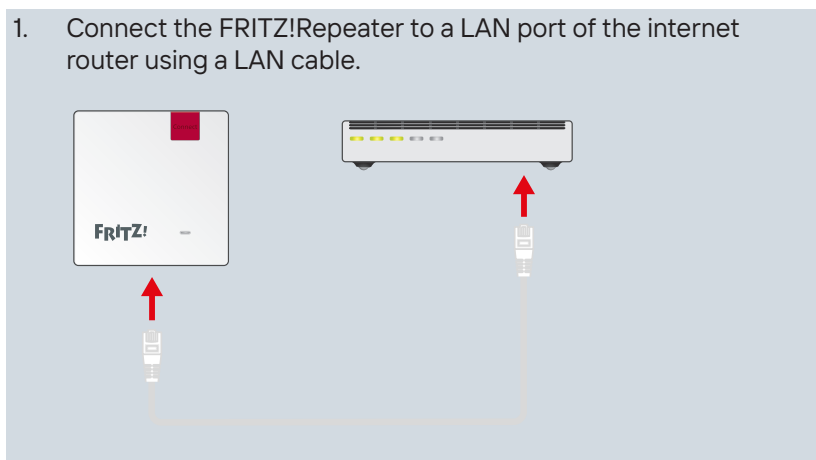
- The FRITZ!Repeater has the factory settings configured.  
If the FRITZ!Repeater was already connected by LAN cable or started operation, reset it; [see page 73](#).



A FRITZ!Repeater no longer has the factory settings configured if it has been connected by LAN cable to a device, for instance a PC, notebook, or other FRITZ!Repeater.

## Instructions: Connecting a FRITZ!Repeater to the internet router

1. Connect the FRITZ!Repeater to a LAN port of the internet router using a LAN cable.



## Instructions: Configuring the FRITZ!Repeater

1. Plug the FRITZ!Repeater into a power socket.  
The  LED flashes green.
2. Connect a computer to the FRITZ!Repeater using a LAN cable.  
**or**  
Establish a Wi-Fi connection to the FRITZ!Repeater on a computer, tablet or smartphone; [see page 30](#).
3. Enter the address **http://fritz.repeater** in the browser on the computer or mobile device.  
The FRITZ!Repeater user interface opens.

4. Enter the password for the FRITZ!Repeater.  
The password is printed on the back of the quick guide and on the type label on the outside of the FRITZ!Repeater housing.
5. Click in the menu on **Internet > Account Information**.
6. Select **connection to an external modem or router** from the **Internet connection via** drop-down list.
7. Enter the values for your internet connection under **Downstream** and **Upstream**.
8. Save your settings by clicking on **Apply**.

# Opening the User interface

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# Overview: Opening the user interface

The FRITZ!Repeater has a user interface which you can open in a browser. You configure the FRITZ!Repeater in the user interface.

## Opening the user interface

How you open the user interface depends on how you use the FRITZ!Repeater.

| How the FRITZ!Repeater is used                               | Instructions                |
|--------------------------------------------------------------|-----------------------------|
| in the home network of a FRITZ!Box or another FRITZ!Repeater | <a href="#">see page 48</a> |
| with the internet router of another manufacturer             | <a href="#">see page 50</a> |
| without a connection to the home network                     | <a href="#">see page 51</a> |

## Opening the User Interface in the FRITZ! Home Network

Open the user interface as described here when the FRITZ!Repeater is located in the home network of a FRITZ!Box or another FRITZ!Repeater (Mesh Master).

### Instructions: Opening the user interface in the FRITZ!Box home network

1. Open a browser on a computer, tablet, or smartphone in the home network.
2. Open the FRITZ!Box user interface by entering the address **http://fritz.box** in the browser.  
The FRITZ!Box can also be reached via your local IP address (**http://192.168.178.1** in the factory settings).
3. Click on **Home Network > Mesh** in the menu and then on the **Mesh Overview** tab.
4. Click in the Mesh Overview on the name of a FRITZ!Repeater.  
You can also enter the IP address of the FRITZ!Repeater in the browser. The IP address is displayed when you move the mouse over the device name in the Mesh Overview.

The user interface of the FRITZ!Repeater opens.

### Instructions: Opening the user interface in the FRITZ!Repeater home network

Open the user interface as described here when the FRITZ!Repeater is located in the home network of another FRITZ!Repeater (Mesh Master).

1. Open a browser on a computer, tablet, or smartphone in the home network.
2. Open the user interface of the Mesh Master by entering the address **http://fritz.repeater** in the browser.



The FRITZ!Repeater (Mesh Master) can also be reached via its local IP address (either **http://192.168.178.1** or **http://192.168.178.2** in the factory settings).

3. Click on **Home Network > Mesh > Mesh Overview** in the menu.
4. Click in the Mesh Overview on the name of a FRITZ!Repeater. The user interface of the FRITZ!Repeater opens.

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#### Tip

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You can also enter the IP address of the FRITZ!Repeater in the browser. The IP address is displayed when you move the mouse over the device name in the Mesh Overview.

---

## Open the user interface in the network of any internet router.

Open the user interface as described here when you are using the FRITZ!Repeater in the network of an internet router of another manufacturer.

### Instructions: Opening the user interface

1. Open a browser on a computer, tablet, or smartphone in the network of the internet router.
2. Enter the address **http://fritzrepeater.local**.  
If the operating system of the computer or mobile device supports mDNS (Multicast DNS), the FRITZ!Repeater user interface opens.
3. If the FRITZ!Repeater user interface is not opened:  
Go to the user interface of the internet router to find out the IP address assigned to the FRITZ!Repeater by the internet router.
4. Enter http:// and the IP address of the FRITZ!Repeater in the browser.  
Example: http://192.168.10.23

## Opening the user interface without a connection to the home network

Open the user interface as described here when the FRITZ!Repeater is not connected to another FRITZ!Repeater, a FRITZ!Box, or another router.

### Requirements

- The FRITZ!Repeater has the factory settings configured.  
If the FRITZ!Repeater was already connected by LAN cable or started operation, reset it; [see page 73](#).



A FRITZ!Repeater no longer has the factory settings configured if it has been connected by LAN cable to a device, for instance a PC, notebook, or other FRITZ!Repeater.

### Instructions: Opening the user interface

1. Plug the FRITZ!Repeater into a power socket.
2. Connect a computer to the FRITZ!Repeater via LAN cable, or establish a Wi-Fi connection to the FRITZ!Repeater on a computer, tablet or smartphone.  
The preset Wi-Fi network key of the FRITZ!Repeater is printed on the outside of the housing of the FRITZ!Repeater and on the quick guide.
3. Enter the address **<http://fritz.repeater>** or **<http://169.254.1.1>** in the browser on the computer.  
The FRITZ!Repeater can also be reached via its local IP address (either **<http://192.168.178.1>** or **<http://192.168.178.2>** in the factory settings).

## Using FRITZ! services (AVM services)

Various FRITZ! services (AVM services) help keep the FRITZ!OS up to date and improve the operation and security of the FRITZ!Repeater 1700.

### FRITZ! services

| FRITZ! service                          | Function                                                                                                                                                                                                                     |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Search for updates                      | Your FRITZ!Repeater connects to the FRITZ! update server regularly to search for and install new versions of FRITZ!OS.                                                                                                       |
| Diagnostics data for error analysis     | Your FRITZ!Repeater transmits error reports and technical diagnostics data to FRITZ! upon suspicion of misuse by third parties.                                                                                              |
| Diagnostics data for system maintenance | In order to make the FRITZ!OS more secure and develop it further, the FRITZ!Repeater transmits device-specific data such as the FRITZ!Repeater model, FRITZ!OS version, basic settings, and your network provider to FRITZ!. |

### Data privacy

The diagnostics data and the device-specific data transmitted by your FRITZ!Repeater to FRITZ! do not contain any personalized data. The data transmitted serve the exclusive purpose of technical adaptations and optimizations of your FRITZ!Repeater. Neither will FRITZ! pass these data on to third parties. The exact wording of the data privacy statement is presented under **Legal Notice > Data Privacy Statement** in the online help.

### Instructions: Configuring FRITZ! services

1. Open the user interface; [see page 46](#).

2. Click in the menu on **Internet** > **Account Information** and on the **FRITZ! Services** tab.
3. For instructions, open the online help  .

# User interface: Home Network menu

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## Adopting Wi-Fi settings from the router

You can adopt the Wi-Fi settings of the router at the touch of a button. You only need this feature if your router is not a FRITZ!Box.

In the Mesh of a FRITZ!Box, the FRITZ!Repeater adopts the wireless network name (SSID), the wireless network key, and other settings automatically from the FRITZ!Box.

### Instructions: Adopting the Wi-Fi settings of the router at the touch of a button

1. Press the **Connect** button on the FRITZ!Repeater.  
The  LED flashes.
2. Within 2 minutes, push the button on the router that starts WPS (Wi-Fi Protected Setup). See the router manual for instructions

## Disabling adoption of settings from the Mesh

When a FRITZ!Repeater is configured as a Mesh Repeater, the FRITZ!Repeater automatically adopts the Wi-Fi network name (SSID), the Wi-Fi network key and other settings from the Mesh Master (for instance, FRITZ!Box).

You can disable adoption of the settings and configure individual settings for the FRITZ!Repeater.

### Example

You would specifically like to select the Wi-Fi network of the FRITZ!Repeater configured as a Mesh Repeater on a laptop or other wireless device.

Do this by disabling adoption of the Wi-Fi settings from the Mesh in the Mesh Repeater. Then configure a Wi-Fi network name (SSID) in the Mesh Repeater that is different from the one in the Mesh Master.

### Please note



We recommend leaving adoption of the settings from the Mesh enabled.

When you disable adoption of the settings in a Mesh Repeater, the following apply:

- Wi-Fi network, Wi-Fi channel, and Wi-Fi security are configured in the Mesh Repeater separately from the Mesh Master.
- Wi-Fi schedule and Wi-Fi guest access can be adopted from the Mesh Master or configured separately in the Mesh Repeater.
- Changes to the settings in the Mesh Master are no longer automatically adopted by the Mesh Repeater.
- Mesh Wi-Fi Steering is no longer available for the Mesh Repeater. Mesh steering optimizes the Wi-Fi connections of the FRITZ! devices in the Mesh.



## Instructions: Disabling Adoption of Settings

1. Open the user interface; [see page 46](#).
2. Click on **Home Network > Mesh** in the menu and then on the **Mesh Settings** tab.
3. Disable the **Adopt settings enabled** checkbox in the **Adopt Settings from the Mesh** section.
4. Save your settings by clicking on **Apply**.

## Changing the FRITZ!Repeater Name

By default, the FRITZ!Repeater is displayed in the home network with its product name. You can assign the FRITZ!Repeater a different name.

### Please note

The following applies when the FRITZ!Repeater is a Mesh Repeater in the Mesh Wi-Fi of a FRITZ!Box or another FRITZ!Repeater:

- The FRITZ!Repeater automatically receives its name from the FRITZ!Box or the other FRITZ!Repeater (Mesh Master).

We recommend not changing this setting. However, you can also disable adoption of the settings and configure individual settings for the FRITZ!Repeater; [see page 56](#).

### Instructions: Assigning a FRITZ!Repeater Name

1. Open the FRITZ!Repeater user interface.
2. Click on **Home Network > FRITZ!Repeater Name** in the menu.
3. For instructions, open the online help  .

# User interface: Wi-Fi menu

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## Changing the Wi-Fi Network Name (SSID)

You can change the Wi-Fi network name (SSID) of the FRITZ!Repeater 1700.

### Please note

If you are using the FRITZ!Repeater in a Mesh Wi-Fi with other FRITZ! devices, note the following:

- You always change Wi-Fi settings such as the Wi-Fi network name or the Wi-Fi network key in the **Mesh Master**. This can be your FRITZ!Repeater 1700, a FRITZ!Box or another FRITZ!Repeater.
- When a FRITZ!Repeater 1700 is configured as a **Mesh Repeater**, it automatically adopts the Wi-Fi network name, the Wi-Fi network key and other Wi-Fi settings from the Mesh Master.

### Instructions: Changing the Wi-Fi Network Name (SSID)

1. Open the user interface; [see page 46](#).
2. Click on **Wi-Fi > Wi-Fi Network** in the menu.
3. For instructions, open the online help .

## Changing Wi-Fi Encryption

You can change the Wi-Fi network key and the WPA mode (encryption standard) in the FRITZ!Repeater.

### Please note

If you are using the FRITZ!Repeater in a Mesh Wi-Fi with other FRITZ! devices, note the following:

- You always change Wi-Fi settings such as the Wi-Fi network name or the Wi-Fi network key in the **Mesh Master**. This can be your FRITZ!Repeater 1700, a FRITZ!Box or another FRITZ!Repeater.
- When a FRITZ!Repeater 1700 is configured as a **Mesh Repeater**, it automatically adopts the Wi-Fi network name, the Wi-Fi network key and other Wi-Fi settings from the Mesh Master.

### Instructions: Defining the Network Key and WPA Mode

1. Open the user interface; [see page 46](#).
2. Click on **Wi-Fi > Security** in the menu.
3. Select a WPA mode; [see page 62](#).
4. Enter a Wi-Fi network key.  
A secure network key has at least 20 characters and contains numerals, upper- and lower-case letters, and other characters.  
A list of valid characters is presented in the Online Help .
5. Save your settings by clicking on **Apply**.

## WPA Mode

| WPA Mode      | Properties                                                                                                                                                                  |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WPA2+WPA3     | <p>Wireless devices that support WPA3 or WPA2 can establish a connection to the FRITZ!Repeater.</p> <p>The FRITZ!Repeater uses WPA3 if a wireless device supports WPA3.</p> |
| WPA2 (preset) | <p>Wireless devices that support WPA2 can establish a connection to the FRITZ!Repeater.</p> <p>All of the latest wireless devices support WPA2.</p>                         |

## Configuring a Wi-Fi Schedule

If there are regular times when you do not use your Wi-Fi, you can set up a switching schedule in the FRITZ!Repeater 1700. This way you reduce both power consumption and Wi-Fi radiation.

### Please note

If you are using the FRITZ!Repeater in a Mesh Wi-Fi with other FRITZ! devices, note the following:

- When the FRITZ!Repeater is the **Mesh Master**, the other FRITZ! devices automatically adopt the switching schedule and other Wi-Fi settings from the FRITZ!Repeater. The other FRITZ! devices are then Mesh Repeaters.
- When the FRITZ!Repeater is a **Mesh Repeater**, it automatically adopts the Wi-Fi settings from the Mesh Master. This can be a FRITZ!Box or another FRITZ!Repeater.

If you want to configure a switching schedule in the FRITZ!Repeater different to the one in the Mesh Master, you can disable the adoption of the settings; see [Disabling adoption of settings from the Mesh](#), page 56.

### Instructions: Configuring a Schedule

1. Open the user interface; see page 46.
2. Click on **Wi-Fi > Schedule** in the menu.
3. For instructions, open the online help .

## Configuring Wi-Fi guest access

If you are using the FRITZ!Repeater as a router, you can configure Wi-Fi guest access in the FRITZ!Repeater. Your guests then have their own internet connection completely separate from your home network. Your guests can connect to the Wi-Fi guest access quickly by scanning a QR code.

You can configure a private Wi-Fi guest access or a public Wi-Fi hotspot:

The private Wi-Fi guest access can only be used with a password and data transmission is encrypted. This guest access is suitable for friends and acquaintances who want access to the internet when visiting you at home.

The public Wi-Fi hotspot can be used without a password (open Wi-Fi), making it suitable for the public spaces in shops, cafés, or doctor's offices.

### Please note

If you are using the FRITZ!Repeater in a Mesh Wi-Fi with other FRITZ! devices, note the following:

- When the FRITZ!Repeater is the **Mesh Master**, the other FRITZ! devices automatically adopt the guest access and other Wi-Fi settings from the FRITZ!Repeater. The other FRITZ! devices are then Mesh Repeaters.
- When the FRITZ!Repeater is a **Mesh Repeater**, it automatically adopts the Wi-Fi settings from the Mesh Master. This can be a FRITZ!Box or another FRITZ!Repeater.

### Instructions: Configuring Wi-Fi Guest Access

1. Open the user interface; [see page 46](#).
2. Click on **Wi-Fi > Guest Access** in the menu.
3. For instructions, open the online help .



# User interface: System menu

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# Configuring a FRITZ!Repeater password

Upon delivery, the FRITZ!Repeater is protected with a password which you can change.

The password is required to access the FRITZ!Repeater user interface.

The password is printed on the back of the quick guide for your FRITZ!Repeater and on the type label on the outside of the FRITZ!Repeater housing.

## Please note

- Select a password with at least twelve characters, which includes lower-case letters, capitals, 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 under **System > Push Service** in the FRITZ!Repeater user interface. Then you do not have to reset the FRITZ!Repeater to factory settings if you forget the password.

## Instructions: Configuring a FRITZ!Repeater Password

1. Open the user interface; [see page 46](#).
2. Click on **System > Password** in the menu.
3. For instructions, open the online help .

## Switching the LED On and Off

You can switch the LED on or off permanently.

### Instructions: Switching the LED off and on

1. Open the user interface; [see page 46](#).
2. Click on **System > Buttons and LEDs** in the menu.
3. Enable or disable **Turn off the LED display**.
4. Save your settings by clicking on **Apply**.

## Setting the user interface language

You can change the language of the user interface. You can choose between Dutch, English, French, German, Italian, Polish, and Spanish.

### Instructions: Setting the User Interface Language

1. Open the user interface; [see page 46](#).
2. Click on **System > Region and Language > Language Settings**.
3. Select a language for the user interface from the drop-down list.
4. Save your settings by clicking on **Apply**.

The FRITZ!Repeater restarts automatically.

After the restart, the user interface of the FRITZ!Repeater appears in the selected language.

## Setting the Country (Region) for the FRITZ!Repeater

In the FRITZ!Repeater, select the country in which you use the FRITZ!Repeater. Different countries allow different channels, frequencies and maximum transmitter powers for Wi-Fi networks.

### Instructions: Setting the Country

1. Open the user interface; [see page 46](#).
2. Click on **System > Region and Language > Regional Options** in the menu.
3. From the drop-down menu, select the country in which you operate the FRITZ!Repeater.
4. Save your settings by clicking on **Apply**.

The FRITZ!Repeater restarts automatically.

After the restart, the Wi-Fi settings are optimized for the regional Wi-Fi frequencies.

## Updating FRITZ!OS

FRITZ! regularly makes new versions of FRITZ!OS available for your FRITZ!Repeater, free of charge. FRITZ!OS updates include new functions and provide for more security.

You can search for updates in the FRITZ!Repeater user interface and specify with the **Auto Update** function whether and which updates are installed automatically.

If there is no other way to perform an update, you can perform a manual update with a FRITZ!OS file. For this the FRITZ!Repeater does not need an internet connection.

### Updates in the Mesh with FRITZ!

In the Mesh with FRITZ! you can perform updates for the FRITZ!Repeater and other FRITZ! devices in the Mesh Overview of the Mesh Master. The Mesh Master can be a FRITZ!Box or a FRITZ!Repeater.

The Mesh Overview is found in the **Home Network > Mesh** menu in the user interface.

### Please note

- Settings for the **Auto Update** function are not available in the FRITZ!Repeater when the FRITZ!Repeater is used as a Mesh Repeater in the Mesh with FRITZ!.

Then the FRITZ!Repeater automatically adopts the settings from the Mesh Master. This can be a FRITZ!Box or another FRITZ!Repeater.

### Instructions: Searching for a new FRITZ!OS

1. Open the user interface; [see page 46](#).
2. Click on **System > Update** in the menu and then on the **FRITZ!OS Version** tab.
3. Click **Find New FRITZ!OS**.

4. If an update is available, click on **Start Update Now**.

The new version of FRITZ!OS is transferred to the FRITZ!Repeater and the FRITZ!Repeater is restarted.

---

#### Important

---

Do not interrupt the power adapter to the FRITZ!Repeater during the update!

---

## Instructions: Configuring Automatic Updates in the FRITZ!Repeater

1. Open the user interface; [see page 46](#).
2. Click on **System > Update > Auto Update** in the menu.
3. For instructions, open the online help .

## Instructions: Updating FRITZ!OS without an internet connection

1. On a computer with an internet connection, enter in the browser the address: [download.avm.de](http://download.avm.de)
2. Navigate through the following folders: **fritzwlan > your FRITZ!Repeater model > deutschland > fritz.os**.  
The complete model name of your FRITZ!Repeater is shown in the user interface and on the type label on the outside of the housing.
3. Download the file with the file extension **.image**. Save the file on a storage medium which you can access from the FRITZ!Repeater user interface.
4. Open the FRITZ!Repeater user interface; [see page 46](#)
5. Click on **System > Update** in the menu and then on the **FRITZ!OS File** tab.
6. Click on the Browse button and select the downloaded file.

7. Click on **Start Update**.

---

#### Important

---

Do not clear the connection between the FRITZ!Repeater and the computer during a FRITZ!OS update, and do not unplug any power cords.

---



## Restoring Factory Settings to the FRITZ!Repeater

You can restore the factory settings to the FRITZ!Repeater.

### Application example

Reset the FRITZ!Repeater in the following cases:

- You forgot the password for the FRITZ!Repeater user interface.
- You want to establish a LAN connection to the FRITZ!Box or switch the type of connection from LAN to Wi-Fi.
- The FRITZ!Repeater is to be operated on a different FRITZ!Box or another router.
- The FRITZ!Repeater is to be passed on to other users.
- The FRITZ!Repeater is to be disposed of.

### Consequences of Resetting

- All of the settings are reset to the preconfigured values. The installed version of FRITZ!OS remains intact.
- The device name in the home network is reset to **fritz.repeater**.
- The Wi-Fi network name (SSID) is reset.

### Instructions: Restoring Factory Settings to the FRITZ!Repeater at the Touch of a Button

1. Plug the FRITZ!Repeater into a power outlet and wait about one minute until the FRITZ!Repeater has started.
2. Press and hold the button on the FRITZ!Repeater for at least 15 seconds.
3. Wait about two minutes until the FRITZ!Repeater has been reset to its factory settings.

## Instructions: Restoring the Factory Settings to the FRITZ!Repeater via the User Interface

1. Open the user interface; [see page 46](#).
2. Click on **System > Reset > Factory Settings** in the menu.
3. Click on **Load Factory Settings**.
4. Wait about two minutes until the FRITZ!Repeater has been re-set to its factory settings.

# Malfunctions

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# Troubleshooting procedures

## Where can I find help?

Use the following sources of help for various kinds of malfunctions:

| Malfunction                                                                                                      | Help                                        |
|------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| Problem with: <ul style="list-style-type: none"><li>• Configuration</li><li>• Wi-Fi</li><li>• Internet</li></ul> | Knowledge Base; <a href="#">see page 77</a> |
| Knowledge Base does not offer a solution.                                                                        | Support, <a href="#">see page 78</a>        |

## Knowledge Base

Help for resolving problems with FRITZ!Repeater is provided in our Knowledge Base. This resource presents answers to the questions asked most frequently of our Support team.

If the problem cannot be resolved using the Knowledge Base, then contact FRITZ! Support; [see page 78](#).

### Available 24/7

Our Knowledge Base is available online at:

[fritz.com/service](https://fritz.com/service)

## Support

Our FRITZ! Support assists you in resolving any problems with your FRITZ! devices.

### Preparations

Keep the following information handy for a support request:

- FRITZ!Repeater model
- Article number, [see page 15](#)
- FRITZ!OS version
- FRITZ!Box model, or device data on the router from another manufacturer
- Error messages, if any

### Instructions: Contacting FRITZ! Support

Contact FRITZ! Support via the FRITZ! website.

1. Open the [fritz.com](https://fritz.com) website.
2. Click on **Service** and then on **Support**.
3. Keep your information handy ([see Preparations, page 78](#)).
4. Contact our FRITZ! Support via email form, fax, or chat.

---

#### Important

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Our email and chat support are not always available in all languages. Select another language for the website if needed.

---

# Taking out of service and disposal

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## Taking out of service

### Deleting private data



As the final user of a FRITZ! product, you are responsible for deleting your own personalized data on devices to be disposed of.

Delete your personal settings and personalized data from your FRITZ!Repeater device before taking it out of service and disposing of the device. To do this, restore the factory settings to the FRITZ!Repeater; [see page 73](#).

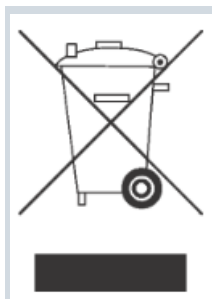


## Disposal

### Disposal of electronic devices and electronic components

In accordance with European regulations and the Waste of Electrical and Electronic Equipment Directive (in Germany), the FRITZ! device, and all devices and electronic components contained in the package, may not be disposed with household waste, residual waste, or the yellow recycling bin.

Bring your FRITZ! device and all electronic components included with delivery to a collection point in your local community for the disposal of electronic appliances where it can be disposed of properly. According to the criteria stipulated in § 17 par. 1 and par. 2 of the Waste of Electrical and Electronic Equipment Directive (for Germany), distributors of electronic devices are also obligated to accept returns of their products free of charge.



The crossed out bin on the type label or on the housing of your FRITZ! device means that you are required by law to dispose of the electronic device separately from household waste.

# Technical specifications

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# Technical specifications

## Device properties

| Property               | Value                    |
|------------------------|--------------------------|
| Dimensions (W x H x D) |                          |
| Supply voltage         | 230 V / 50 Hz            |
| Certification          | Conforms to CE standards |

## Ambient conditions

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

## Power consumption (energy use)

| Property                   | Value |
|----------------------------|-------|
| Average energy consumption |       |

## Wi-Fi frequencies

| Frequency | Frequency range | Max. trans-<br>mitter power |
|-----------|-----------------|-----------------------------|
| 2.4 GHz   | 2400 - 2483 MHz | 100 mW                      |
| 5 GHz     | 5150 - 5350 MHz | 200 mW                      |
|           | 5470 - 5725 MHz | 1000 mW                     |

In the 5 GHz band for Wi-Fi, the range from 5150 MHz to 5350 MHz is intended only for indoor operation. This restriction or requirement is effective in the countries 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(NI).

Ports and interfaces

| Connected via | Interface                                                                                                                                                         |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LAN           | One network port via RJ45 socket (gigabit Ethernet, 10/100/1000 Base-T)                                                                                           |
| 2.4-GHz Wi-Fi | <ul style="list-style-type: none"><li>• Wi-Fi 7 (IEEE 802.11be), transmission rates of up to 688 Mbit/s</li><li>• Compatible with IEEE 802.11g/n/ax</li></ul>     |
| 5-GHz Wi-Fi   | <ul style="list-style-type: none"><li>• Wi-Fi 7 (IEEE 802.11be), transmission rates of up to 2880 Mbit/s</li><li>• Compatible with IEEE 802.11a/n/ac/ax</li></ul> |

# Legal

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## Legal notice

### Manufacturer's warranty

We, FRITZ! GmbH, Alt-Moabit 95, 10559 Berlin, as manufacturer of this original product 5 years warranty for defects to the product which are demonstrably due to faults in materials or manufacturing. Your legal rights in the case of defects for which claims can be made free of charge are not restricted by this warranty.

The warranty period begins with the date of purchase by the first end user. Compliance with the warranty period must be proven by submission of the original invoice of the first end consumer or comparable documents as well as the return of the product in question. In order to return your product, our Support team will send you a link to an "RMA form". After filling out this form you will receive an RMA number authorizing you to return the product to us. This RMA number must be clearly visible and easy to read on the outside of the package, and sufficient postage must be attached (insured shipping is recommended). The product must be dispatched within 14 days after the RMA number has been issued. The package is to be returned without the original box and accessories, packed carefully and secured for transportation. FRITZ! accepts no liability for any damage during transport. Returns without an RMA number, packages sent freight collect or without sufficient postage, and packages without an invoice will not be processed and sent back to the sender; in such cases we reserve the right to charge a processing fee of up to 35 €.

Within the warranty period, we will remove reported defects to the product hardware 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). In this case we reserve the right to return such devices without processing and will charge you a processing fee of 35 €. We may, at our discretion, repair or replace the defective product. FRITZ! bears the costs for returning the repaired or exchanged 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. Shipping costs will not be reimbursed. Products to be exchanged due to a warranty claim are transferred to our ownership upon provision of the replacement product. Claims recognized under warranty entail neither an extension nor a recommencement of the warranty period. If we reject a warranty claim, this claim lapses no later than six months after being rejected by us. All claims from or in association with 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).

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# FRITZ!

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## Declaration of CE conformity

FRITZ! GmbH declares herewith that the device is compliant with directive 2014/53/EU.

The full text of the declaration of EU conformity is available at [en.fritz.com/service/declarations](https://en.fritz.com/service/declarations).

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