

450E FRITZ!WLAN Repeater Wireless Range Extender



450E FRITZ!WLAN Repeater Wireless Range Extender User Manual

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450E FRITZ!WLAN Repeater Wireless Range Extender User



Product Information

Specifications

- **Model:** FRITZ!WLAN Repeater 450E
- **Manufacturer:** AVM GmbH
- **Address:** Alt-Moabit 95, D-10559 Berlin, Germany
- **Email:** info@avm.de
- **Website:** en.avm.de

Product Usage Instructions

Installation and Operation

To install and operate the FRITZ!WLAN Repeater 450E, follow these steps:

1. Ensure that the FRITZ!WLAN Repeater 450E is connected to a power outlet near your wireless access point (eg, a FRITZ!Box).
2. Open a web browser on any connected device and enter the following URL to access the user interface:
<https://manual-hub.com/>

3. Refer to the PDF manual available on the website for comprehensive information and technical details.

Operating Modes

Wireless Bridge (Preset)

In this mode, the FRITZ!WLAN Repeater 450E connects to your Internet router via wireless LAN. Computers and other network devices can be connected to the repeater either wirelessly or through a LAN cable.

LAN Bridge

In this mode, the FRITZ!WLAN Repeater 450E connects to your Internet router using a LAN cable. Computers and other network devices can be connected to the repeater wirelessly.

For detailed instructions on configuring the operating mode, refer to the FRITZ!WLAN Repeater 450E manual available at en.avm.de/service.

Connecting the FRITZ!WLAN Repeater 450E with Wireless LAN at the Touch of a Button

To connect the FRITZ!WLAN Repeater 450E with your wireless LAN using WPS (Wi-Fi Protected Setup), follow these steps:

A preconfigured FRITZ!Box

1. Insert the FRITZ!WLAN Repeater 450E into a power outlet near your wireless access point (eg, a FRITZ!Box).
2. Press and hold the WPS button on the FRITZ!WLAN Repeater 450E until the WLAN LED starts flashing.

FAQ

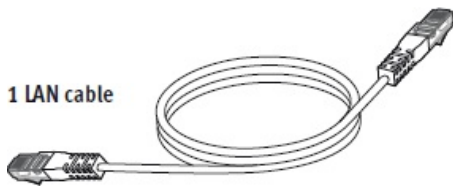
- **Q: Where can I find the licensing terms for the FRITZ!WLAN Repeater 450E?**
 - **A:** The licensing terms can be found in the FRITZ!WLAN Repeater 450E user interface under Help / Legal Notice.
- **Q: How should I dispose of the FRITZ!WLAN Repeater 450E and its cable?**
 - **A:** According to the Waste of Electrical and Electronic Equipment Directive, the FRITZ!WLAN Repeater 450E and its cable should not be disposed of with household waste. Please bring them to your local collection points for proper disposal.
- **Q: Where can I find customer service for the FRITZ!WLAN Repeater?**
 - **A:** For customer service regarding the FRITZ!WLAN Repeater, you can visit the AVM GmbH website at en.avm.de or contact them via email at info@avm.de.

Installation and Operation

Package Contents and Device Features



1 FRITZ!WLAN Repeater 450E



1 LAN cable



WPS button

- Initiating WPS
- Enabling Mesh WiFi



Status display

- Quality of the wireless radio signal
- Connection status



Wireless LAN function

- Expanding the wireless radio network
- 802.11 n/g/b in the 2.4 GHz band



LAN port

- Connect network devices by cable
- Connect Internet router by cable

Security

- Operate the FRITZ!WLAN Repeater 450E in a dry place that is free of dust and protected from direct sunlight. Provide for sufficient ventilation.
- The FRITZ!WLAN Repeater 450E is intended for indoor use only.
- Never let liquids get inside the FRITZ!WLAN Repeater 450E.
- Insert the FRITZ!WLAN Repeater 450E into an electrical outlet that is easy to reach.
- Do not open the FRITZ!WLAN Repeater 450E housing. Opening and/or repairing the device can present a hazard.
- Unplug the FRITZ!WLAN Repeater 450E from the outlet before cleaning. Clean the device using a moist cloth.

This is the FRITZ!WLAN Repeater 450E

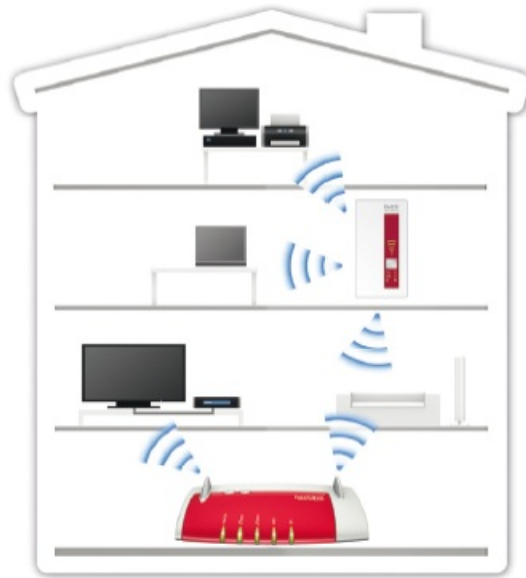
This quick introduction shows you the possibilities for deploying and operating your FRITZ!WLAN Repeater 450E. Comprehensive information and technical details are presented in the PDF manual available on our website en.avm.de/service.

The FRITZ!WLAN Repeater 450E is a wireless repeater that extends the range of your wireless network. Computers, tablets, Smart TVs, and other wireless devices can use the FRITZ!WLAN Repeater 450E as the access point to your Internet router and the home network. In the FRITZ!Box home network, the FRITZ!WLAN Repeater 450E automatically adopts the FRITZ!Box's settings. With a FRITZ!Box that has FRITZ!OS 6.90 or higher installed, you can also benefit from expanded Mesh WiFi functionality. More detailed information about the benefits and the configuration of Mesh WiFi is presented at en.avm.de/mesh-networking.

The FRITZ!WLAN Repeater 450E comes with a user interface that you can open in a web browser on all connected devices.

Have fun with your

FRITZ!WLAN Repeater 450E!



FRITZ!WLAN Repeater 450E in a home network

Operating Modes

The FRITZ!WLAN Repeater 450E can work in two different operating modes:

Wireless Bridge (Preset)

The WLAN bridge connects the FRITZ!WLAN Repeater 450E with your Internet router via wireless LAN.

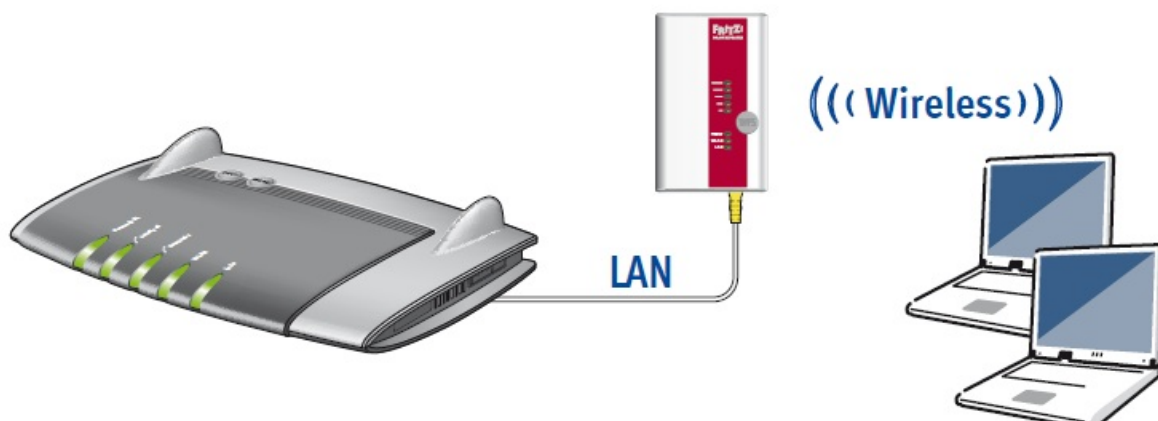
Computers and other network devices are connected to the FRITZ!WLAN Repeater 450E via WiFi or with a LAN cable. Read the description starting.



LAN Bridge

The LAN bridge connects the FRITZ!WLAN Repeater 450E with your Internet router using a LAN cable.

Computers and other network devices are connected with the FRITZ!WLAN Repeater 450E via WiFi. The LAN bridge operating mode can be configured in the user interface of the FRITZ!WLAN Repeater 450E. For more information, see also the FRITZ!WLAN Repeater 450E manual at en.avm.de/service.



Connecting the FRITZ!WLAN Repeater 450E with Wireless LAN at the Touch of a Button

Requirements (preconfigured in and fulfilled by a FRITZ!Box)

- Wireless access point that supports WPS with the WPA or WPA2 encryption standard
- The SSID (name of the wireless radio network) is set to “visible” in the wireless access point, and the MAC address filter is disabled for the initial configuration.

1. Insert the FRITZ!WLAN Repeater 450E in an outlet in the vicinity of your wireless access point (for instance, a FRITZ!Box).

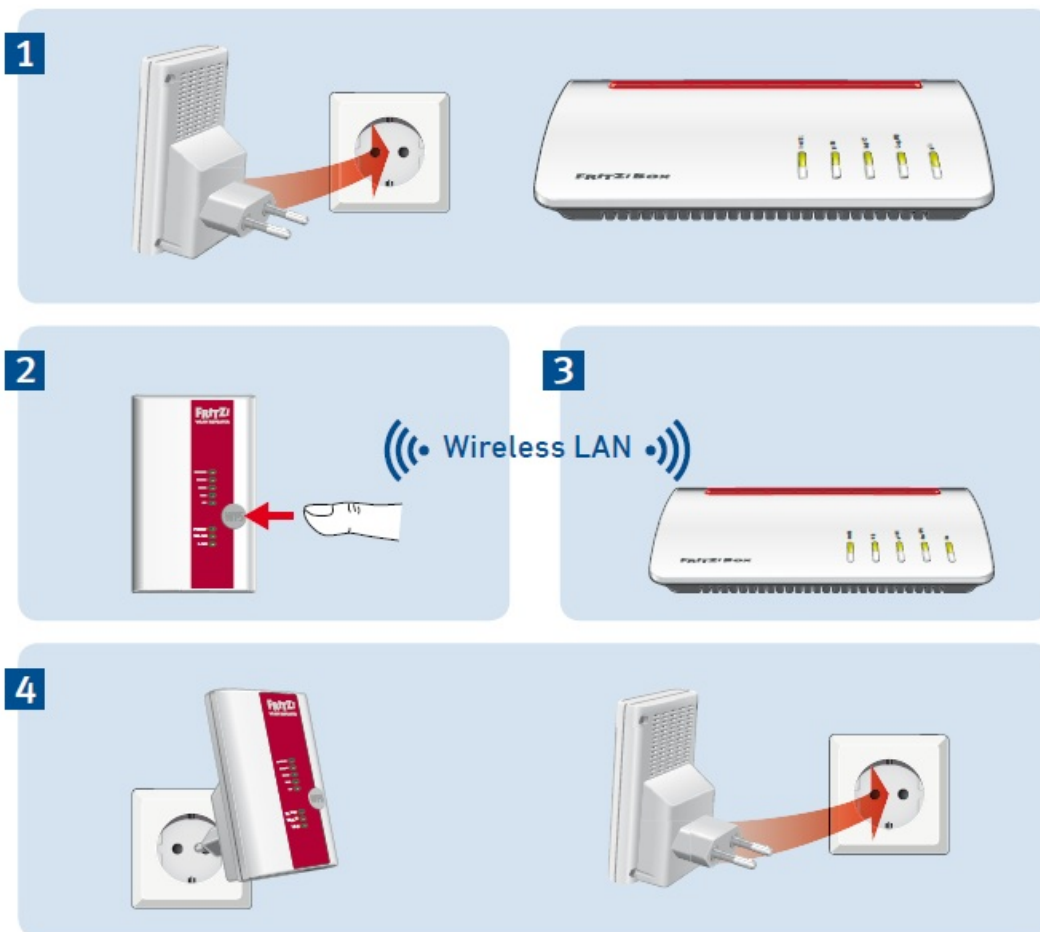
2. Press the WPS button on the FRITZ!WLAN Repeater 450E until the “WLAN” LED starts to flash.

3. Within two minutes, press the button on your wireless access point that initiates WPS. For more information, see the documentation of this device.

The FRITZ!WLAN Repeater 450E adopts the SSID (radio network name) and the network key from your wireless access point and establishes a secure wireless connection. Once the connection has been established, the “Power”, “WLAN” and “ ” LEDs light up.

4. Insert the FRITZ!WLAN Repeater in an outlet located about halfway between your wireless access point and the wireless devices to be added to the wireless network.

The FRITZ!WLAN Repeater 450E is connected with your home network by wireless LAN. Check the settings and perform an update if necessary. Continue reading.



Connecting Using the Wizard

Requirements

The MAC filter must be switched off for the initial configuration duration. This is the default setting on a FRITZ! Box.

Establishing a Connection to the Computer

1. Insert the FRITZ!WLAN Repeater 450E in an outlet in the vicinity of your wireless access point (for instance, a FRITZ! Box).
2. Start the wireless LAN software on your computer, select the wireless radio network of your FRITZ!WLAN Repeater 450E and establish a connection.
3. Enter the network key. In the FRITZ!WLAN Repeater 450E the network key is preset to 00000000 (eight zeros). The computer establishes a connection to the FRITZ!WLAN Repeater 450E. Once the connection has been established, the "Power", "WLAN" and " " LEDs light up.
4. Insert the FRITZ!WLAN Repeater in an outlet located about halfway between your wireless access point and the wireless devices to be added to the wireless network.

• Starting the Configuration Wizard

5. Open the web browser on your computer and enter <http://fritz.repeater> in the address bar. The configuration wizard appears.
6. The wizard guides you through the duration of the wireless connection between the FRITZ!WLAN Repeater 450E and your wireless access point.

The FRITZ!WLAN Repeater 450E is connected with your home network by wireless LAN. Check the settings and perform an update if necessary.

FRITZ!WLAN Repeater 450E in the Home Network

In the home network of a FRITZ!Box, it is especially easy and convenient for your FRITZ! devices to work together.

On a FRITZ!Box with FRITZ!OS 6.90 or higher

- During registration with FRITZ!Boxes with FRITZ!OS 6.90 or higher, the FRITZ!WLAN Repeater 450E automatically adopts the FRITZ!Box's wireless LAN settings.
- When settings on the FRITZ!Box are changed, the FRITZ!WLAN Repeater 450E adopts these changes automatically.
- Updates for the FRITZ!WLAN Repeater 450E can be performed directly in the graphic display of the FRITZ!Box user interface under Home Network/Home Network Overview.
- The FRITZ!WLAN Repeater 450E benefits from expanded Mesh WiFi functionality. Note the instructions at en.avm.de/mesh-networking.

On a FRITZ!Box with FRITZ!OS up to version 6.6x

- During registration with FRITZ!Boxes with FRITZ!OS up to version 6.6x, FRITZ!WLAN Repeater 450E automatically adopts the
- FRITZ!Box's wireless LAN settings. Updates for the FRITZ!WLAN Repeater 450E can be performed directly in the FRITZ!Box user interface under Home Network/Home Network Overview.


On a Wireless Access Point from Another Manufacturer

- For registration with a wireless access point via WPS, the FRITZ!WLAN Repeater 450E adopts the SSID (radio network name) and network key of the wireless access point.
- Updates are performed directly in the user interface of your FRITZ!WLAN Repeater 450E under System/Update.

The FRITZ!WLAN Repeater 450E user interface can be opened on all connected devices using the IP address it was assigned by your wireless access point.

First check the user interface of your wireless access point to find out what IP address the FRITZ!WLAN Repeater 450E was assigned, and then enter this IP address in the address line of a web browser. See the documentation for your wireless access point.

LEDs and Buttons

	on	flashing
	Quality of the wireless radio signal	Connection to the wireless access point is interrupted
Power	FRITZ!WLAN Repeater 450E is ready for operation	<ul style="list-style-type: none"> • The FRITZ!WLAN Repeater 450E is being started. • Updating FRITZ!OS
WLAN	Wireless LAN function enabled.	<ul style="list-style-type: none"> • WPS in progress; flashes fast: WPS was aborted • Enabling Mesh WiFi • Adopting the wireless LAN settings
LAN	Network device connected	
all		Loading factory settings

Operate the FRITZ!WLAN Repeater 450E using the WPS button:

	Press the WPS button
Initiate WPS / Enable Mesh WiFi	1 second
Connect with another access point	6 seconds
Factory Settings	15 seconds

Technical Specifications

- IEEE 802.11n, compatible with IEEE 802.11g/b
- Up to 450 Mbit/s (gross); the user data rate that can actually be achieved is somewhat below the specified values.
- WPA, WPA2 (802.11i)
- **Ethernet:** LAN port over RJ45 socket (gigabit Ethernet, 10/100/1000 Base-T)
- **Total power consumption:** approx. 5 W
- **WLAN:** 2.4 GHz max. 100 mW 230 V, 50 Hz A/C 0 °C to +40 °C
- **Dimensions:** 101 mm x 76 mm x 76 mm
- **Weight:** approx. 120 g
- **Antennas:** three integrated antennas

System Requirements

- Wireless access point compliant with IEEE 802.11b/g/n, 2.4 GHz, automatic IP address assignment (DHCP)

- The wireless access point must support the encryption standard WPA or WPA2.
- **For expanded Mesh WiFi functions:** FRITZ!Box with FRITZ!OS version 6.90 or higher
- **For initial confi duration with WPS:** WPS-compliant wireless access point
- **For initial confi duration without WPS:** computer with wireless LAN that supports the WPA encryption standard
- **For the first confi duration of WLAN:** If the MAC address fi later is active in the wireless access point, the MAC address of the FRITZ!WLAN Repeater must be entered as an exception in the MAC address fi later.

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 declaration of CE conformity is available at <http://en.avm.de/ce>.

Diagnostics and Maintenance

The FRITZ!WLAN Repeater transfers diagnostics data to AVM, which supports us in further developing the product. This allows you to benefit directly from optimizations and FRITZ!OS updates.

For more detailed information, see the help on the user interface at <http://fritz.repeater>.

Manufacturer's Warranty

- We offer a manufacturer's warranty of 2 years for this original product. The warranty period begins with the purchase date from the fi 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 that are demonstrably due to faults in materials or manufacturing. Our warranty does not cover defects that 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 specifi cations, not, however, that the software meets your individual requirements. Delivery costs will not be reimbursed. Products that have been replaced revert to our ownership. Claims recognized under warranty entail neither an extension nor 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).

Licensing Terms


The valid licensing conditions are presented in the FRITZ!WLAN Repeater 450E user interface under Help / Legal Notice.

In accordance with the Waste of Electrical and Electronic Equipment Directive, the FRITZ!WLAN Repeater 450E and its cable may not be disposed of with household waste. Please bring these to your local collection points for disposal.















Customer Service

- Service en.avm.de/service
 - Manual en.avm.de/service/manuals
 - Support en.avm.de/service/support-request/your-support-request
 - Download en.avm.de/service/downloads
 - en.avm.de
 - AVM GmbH, Alt-Moabit 95, D-10559 Berlin, Germany
 - info@avm.de
-

Documents / Resources

	FRITZ 450E FRITZ!WLAN Repeater Wireless Range Extender [pdf] User Manual 450E FRITZ WLAN Repeater Wireless Range Extender, 450E, FRITZ WLAN Repeater Wireless Range Extender, Repeater Wireless Range Extender, Wireless Range Extender, Range Extender, Extender
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References

-  [Complete home networking | AVM International](#)
-  [Mesh | AVM Deutschland](#)
-  [Service | AVM Deutschland](#)
-  [Complete home networking | AVM International](#)
-  [Complete home networking | AVM International](#)
-  [Declarations for FRITZ!Box | AVM International](#)
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