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› [FRITZ!](#) /

› [FRITZ!Box 4050 Wireless Router: User Manual](#)

## FRITZ! 4050

# FRITZ!Box 4050 Wireless Router: User Manual

Model: 4050

## INTRODUCTION

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The FRITZ!Box 4050 is a high-performance wireless router designed for home networks. It supports Wi-Fi 6 for fast and efficient wireless communication, dual-band operation (2.4 GHz / 5 GHz), and Gigabit Ethernet for wired connections. This manual provides essential information for the installation, configuration, and daily use of your FRITZ!Box 4050.



Image: Front view of the FRITZ!Box 4050 wireless router, showing its indicator lights for Power/Internet, WLAN, Fon/DECT, Connect/WPS, and Info. An icon representing a WAN connection with an Ethernet cable is also displayed.

## WHAT'S IN THE BOX

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Before you begin, please ensure all components are present:

- FRITZ!Box 4050 Wireless Router
- Power Adapter
- Ethernet Cable
- Instruction Manual (this document)

## SETUP GUIDE

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Follow these steps to set up your FRITZ!Box 4050:

### 1. Connect the Power Adapter

Connect the supplied power adapter to the "Power" port on the back of the FRITZ!Box and then plug it into an electrical outlet. The "Power/Internet" LED on the front of the device will light up.

### 2. Connect to Your Internet Service Provider (ISP)

The FRITZ!Box 4050 connects to your existing modem or fiber optic terminal (ONT) via its WAN port.

- Connect one end of the supplied Ethernet cable to the **WAN** port on the FRITZ!Box.
- Connect the other end of the Ethernet cable to the LAN port of your modem or ONT.

### 3. Connect Devices to the Network

You can connect devices via Ethernet or Wi-Fi.

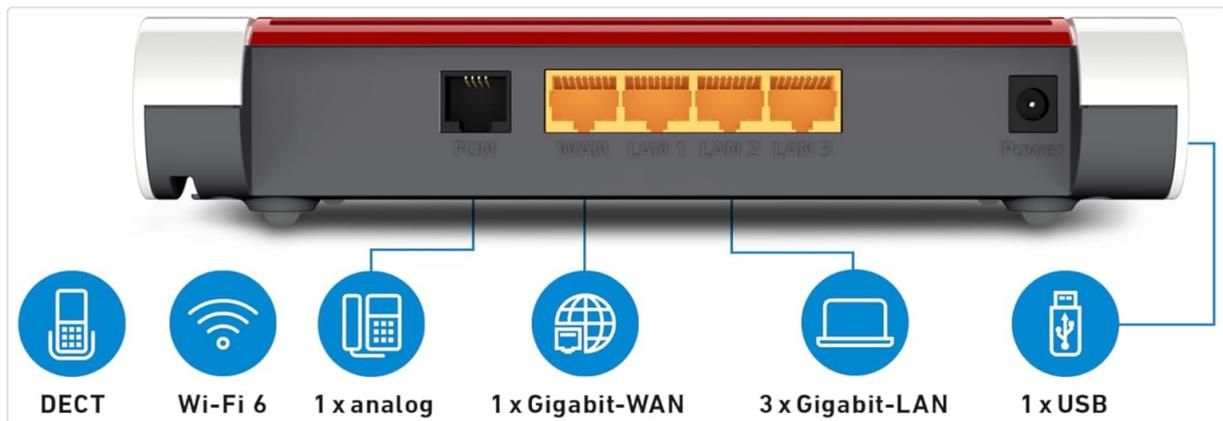


Image: Rear view of the FRITZ!Box 4050, illustrating its various connection ports. From left to right: DECT button, 1x analog phone port, 1x Gigabit-WAN port, 3x Gigabit-LAN ports (LAN 1, LAN 2, LAN 3), 1x USB port, and the Power input.

#### Ethernet Connections:

- Use Ethernet cables to connect computers, gaming consoles, or other network devices to the **LAN 1**, **LAN 2**, or **LAN 3** ports on the FRITZ!Box.

#### Wi-Fi Connections:

- Locate the Wi-Fi network name (SSID) and password on the label on the bottom of your FRITZ!Box.
- On your wireless device (smartphone, tablet, laptop), search for available Wi-Fi networks and select your FRITZ!Box's SSID.
- Enter the Wi-Fi password when prompted.

### 4. Initial Configuration (Web Interface)

- Open a web browser on a device connected to the FRITZ!Box (via Ethernet or Wi-Fi).

- Enter `http://fritz.box` or `http://192.168.178.1` into the address bar and press Enter.
- Follow the on-screen wizard to complete the initial setup, including setting up your internet access, Wi-Fi settings, and a FRITZ!Box password.

## OPERATING YOUR FRITZ!Box 4050

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### Wi-Fi 6 (802.11ax)

The FRITZ!Box 4050 supports the latest Wi-Fi 6 standard, offering faster speeds (up to 3000 Mbps on 5 GHz and 600 Mbps on 2.4 GHz) and improved efficiency for multiple devices. It operates on dual bands to optimize performance for various applications.

### Mesh Wi-Fi

The FRITZ!Box 4050 can be integrated into a Mesh Wi-Fi network with other FRITZ! devices. This creates a single, seamless Wi-Fi network throughout your home, ensuring optimal coverage and performance. Configuration is managed through the FRITZ!Box user interface.

### DECT Base Station

The integrated DECT base station allows you to connect cordless phones (FRITZ!Fon) and Smart Home devices that use the DECT ULE standard. This enables telephony and smart home control directly through your FRITZ!Box.

### Additional Features

- **Integrated Media Server:** Stream music, photos, and videos to devices in your home network.
- **NAS Functionality:** Connect a USB storage device to the USB port to create network-attached storage for file sharing.
- **MyFRITZ!:** Securely access your FRITZ!Box and connected devices from anywhere.
- **Firewall:** Provides network security against unauthorized access.
- **Parental Control:** Manage internet access times and filter websites for specific devices.
- **Wake-on-LAN:** Remotely wake up computers in your network.

## MAINTENANCE

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### Firmware Updates

The FRITZ!Box 4050 supports automatic firmware updates to ensure optimal performance, security, and access to new features. It is recommended to keep the firmware up to date. You can check for updates manually via the FRITZ!Box web interface under "System" > "Update".

### Cleaning

Clean the FRITZ!Box regularly with a soft, dry, lint-free cloth. Do not use liquid cleaners or solvents, as these can damage the casing or internal components. Ensure the device is unplugged before cleaning.

### Placement

For optimal Wi-Fi performance, place the FRITZ!Box in a central location, away from obstructions and sources of interference (e.g., microwaves, cordless phones operating on the 2.4 GHz band). Avoid placing it in enclosed spaces or near large metal objects.

## TROUBLESHOOTING

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## No Internet Connection

- Check all cable connections, especially the WAN cable to your modem/ONT.
- Verify that the "Power/Internet" LED on the FRITZ!Box is solid green. If it's blinking, there might be an issue with your internet connection or configuration.
- Restart your modem/ONT and then your FRITZ!Box by unplugging them from power for 30 seconds and plugging them back in.
- Log into the FRITZ!Box web interface (<http://fritz.box>) and check the "Internet" section for status messages or configuration errors.

## Wi-Fi Issues (Slow Speed or Disconnections)

- Ensure your device is within range of the FRITZ!Box.
- Check for interference from other electronic devices.
- Try switching between the 2.4 GHz and 5 GHz Wi-Fi bands on your device, if supported. The 5 GHz band offers higher speeds but has a shorter range.
- Consider optimizing Wi-Fi channels in the FRITZ!Box web interface under "Wi-Fi" > "Radio Channel".

## Accessing the Web Interface

- If <http://fritz.box> does not work, try <http://192.168.178.1>.
- Ensure your device is connected to the FRITZ!Box network.
- Clear your browser's cache or try a different browser.

## Factory Reset

If you encounter persistent issues, a factory reset can restore the FRITZ!Box to its default settings.

**Warning: This will erase all your custom configurations.**

- Access the FRITZ!Box web interface.
- Navigate to "System" > "Backup" > "Factory Settings".
- Click "Load Factory Settings" and confirm.
- Alternatively, for a hardware reset, consult the FRITZ!Box support website for specific instructions for your model, as this often involves a specific button sequence or holding a button during power-on.

## SPECIFICATIONS

<b>Model Number</b>	20003052
<b>Brand</b>	FRITZ!
<b>Manufacturer</b>	AVM
<b>Product Dimensions</b>	8.19 x 5.91 x 1.46 inches (20.8 x 15.0 x 3.7 cm)
<b>Item Weight</b>	12.1 ounces (343 grams)
<b>Frequency Band Class</b>	Dual-Band (2.4 GHz / 5 GHz)
<b>Wireless Communication Standard</b>	802.11ax (Wi-Fi 6)
<b>Connectivity Technology</b>	Ethernet, Wi-Fi

<b>Ports</b>	1x Gigabit WAN, 3x Gigabit LAN, 1x USB 2.0, DECT Base, 1x Analog Phone Port
<b>Special Features</b>	DECT ULE for Telephony and Smart Home, Integrated Media Server, Wake-on-LAN, Firewall, Parental Control
<b>Recommended Uses</b>	Home
<b>Date First Available</b>	October 2, 2024

## WARRANTY AND SUPPORT

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### Warranty Information

Your FRITZ!Box 4050 comes with a manufacturer's warranty. Please refer to the warranty card included with your product or visit the official AVM website for detailed terms and conditions regarding warranty coverage and duration.

### Technical Support

For technical assistance, further documentation, or frequently asked questions, please visit the official FRITZ!Box support website. You can typically find support resources, firmware downloads, and contact information for customer service there.

Official AVM/FRITZ! Website: <https://en.avm.de/products/fritzbox/fritzbox-4050/> (Example link, actual link might vary by region)