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AVM 7530 AX

FRITZ!Box 7530 AX WI-FI 6 DSL-Router User Manual

Model: 7530 AX | Brand: AVM

1. INTRODUCTION

The AVM FRITZ!Box 7530 AX is a high-performance WI-FI 6 DSL-Router designed for fast and stable internet connectivity in your home network. It supports DSL/VDSL connections with speeds up to 300 MBit/s using VDSL-Supervectoring 35b, and offers simultaneous Wi-Fi 6 (WLAN AX) at 1800 MBit/s (5 GHz) and 600 MBit/s (2.4 GHz) for an demanding home network with many Wi-Fi end devices. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your FRITZ!Box 7530 AX.



Figure 1: FRITZ!Box 7530 AX Router

This image shows the white and red FRITZ!Box 7530 AX router from a slight angle, displaying its indicator lights for Power/DSL, WLAN, Fon/DECT, Connect/WPS, and Info.

2. PACKAGE CONTENTS

Before you begin, please ensure all items are present in the package:

- FRITZ!Box 7530 AX
- Power adapter
- 4-meter DSL connection cable
- 1.5-meter LAN cable
- Installation guide



Figure 2: FRITZ!Box 7530 AX Retail Packaging

This image displays the blue retail box of the FRITZ!Box 7530 AX, highlighting its key features like Wi-Fi 6, DSL, WLAN Mesh, and DECT telephony.

3. SETUP GUIDE

3.1 Connecting the FRITZ!Box

1. **Connect to DSL Line:** Use the provided 4-meter DSL connection cable to connect the "DSL" port on the FRITZ!Box to your DSL wall socket.
2. **Connect to Power:** Plug the power adapter into the "Power" port on the FRITZ!Box and then into an electrical outlet. The "Power/DSL" LED will light up and then flash during synchronization.

3. Connect Devices (Optional):

- **LAN Devices:** Connect computers, smart TVs, or gaming consoles to the "LAN 1-4" ports using the 1.5-meter LAN cable.
- **Telephones:** Connect analog telephones to the "FON" port.
- **USB Devices:** Connect USB storage devices to the "USB" port for media server or NAS functionality.



Figure 3: DSL Connection Setup

This image illustrates how to connect the FRITZ!Box 7530 AX to a DSL wall socket using the provided cable.

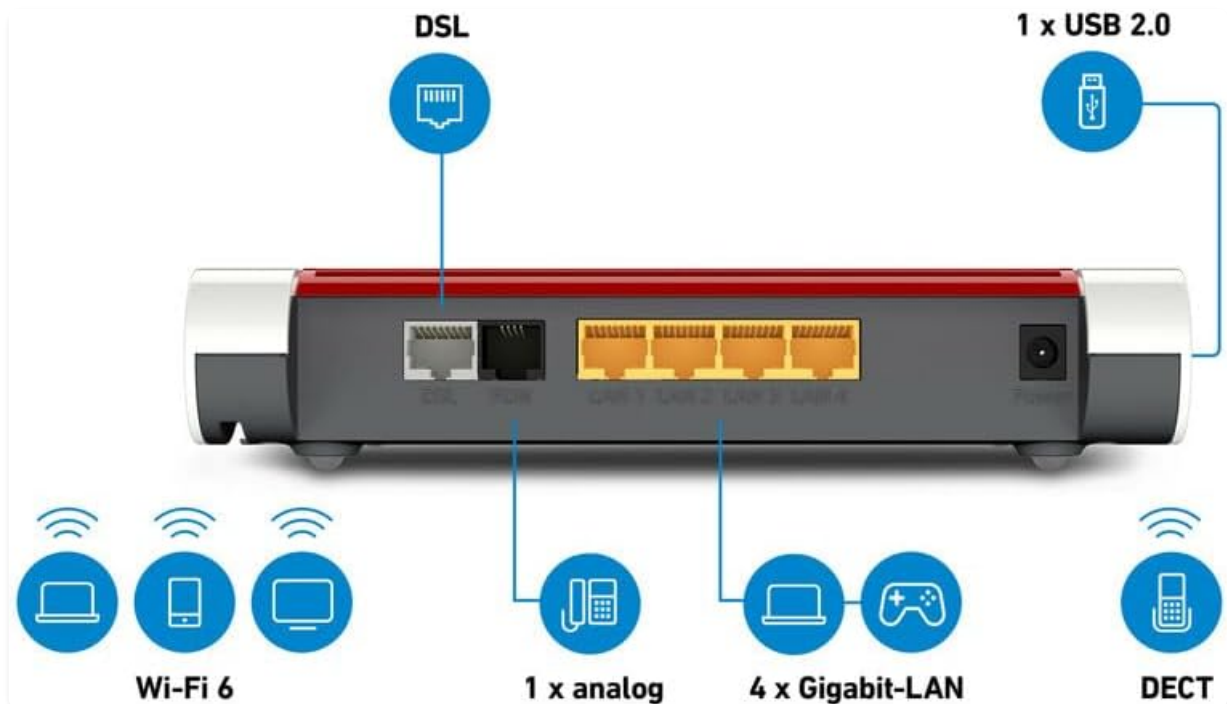


Figure 4: FRITZ!Box 7530 AX Rear Ports

This diagram shows the rear view of the FRITZ!Box 7530 AX, labeling its ports: DSL, FON, 4x Gigabit-LAN, and 1x USB 2.0, along

with icons indicating Wi-Fi 6, analog phone, and DECT connections.

3.2 Initial Configuration

1. **Access User Interface:** Open a web browser on a connected device (via LAN or Wi-Fi) and enter <http://fritz.box> or <http://192.168.178.1> in the address bar.
2. **Follow Setup Wizard:** The FRITZ!OS setup wizard will guide you through the initial configuration, including internet access settings (provider details), Wi-Fi network name (SSID) and password, and telephone settings.
3. **Update Firmware:** It is highly recommended to perform a firmware update after the initial setup to ensure you have the latest features and security enhancements. This can usually be done directly from the FRITZ!OS interface under "System" > "Update".

4. OPERATING INSTRUCTIONS

4.1 Wi-Fi 6 (WLAN AX) Connectivity

The FRITZ!Box 7530 AX supports the latest Wi-Fi 6 standard, providing faster speeds and improved efficiency, especially in networks with many devices. It operates on both 5 GHz (up to 1800 MBit/s) and 2.4 GHz (up to 600 MBit/s) frequencies simultaneously.

- **Connecting Devices:** Use the Wi-Fi network name (SSID) and password found on the bottom of your FRITZ!Box or configured during setup to connect your wireless devices.
- **WPS (Wi-Fi Protected Setup):** For quick and easy connection, press the "Connect/WPS" button on the FRITZ!Box and then activate WPS on your Wi-Fi device within two minutes.
- **WLAN Mesh:** The FRITZ!Box acts as a Mesh Master, automatically combining all FRITZ! products (like FRITZ!Repeater or FRITZ!Powerline) into a single intelligent Wi-Fi network for optimal performance and coverage throughout your home.



Figure 5: FRITZ!Box 7530 AX with Wi-Fi 6 Capability

This image highlights the Wi-Fi 6 capability of the FRITZ!Box 7530 AX, indicating its advanced wireless networking features.



Figure 6: FRITZ!Box and FRITZ!Repeater for Mesh Wi-Fi

This image shows the FRITZ!Box 7530 AX alongside a FRITZ!Repeater, demonstrating how they work together to create a seamless Mesh Wi-Fi network for extended coverage.

4.2 Telephony and DECT Base Station

The FRITZ!Box 7530 AX includes a VoIP telephone system with an integrated DECT base station.

- **DECT Cordless Phones:** Connect up to 6 cordless DECT phones directly to the FRITZ!Box.
- **Answering Machines & Fax:** Utilize up to 5 integrated answering machines and a fax function.
- **FRITZ!App Fon:** Use your smartphone as a landline phone via Wi-Fi with the FRITZ!App Fon.



Figure 7: FRITZ!Fon Handset

This image features a FRITZ!Fon cordless phone, which can be registered with the FRITZ!Box's integrated DECT base station for convenient telephony.

4.3 Media Server and NAS

The integrated media server allows you to share movies, photos, and music within your home network to compatible devices like tablets, smart TVs, and Hi-Fi systems. Connect a USB storage device to the USB 2.0 port to enable Network Attached Storage (NAS) functionality.

4.4 Smart Home Integration

The FRITZ!Box 7530 AX supports FRITZ!DECT devices for Smart Home applications, allowing you to control lighting, heating, and power outlets.

- **FRITZ!DECT Smart Plugs:** Control power to connected devices and monitor energy consumption.
- **FRITZ!DECT Radiator Controls:** Manage room temperature efficiently.
- **FRITZ!DECT LED Bulbs:** Adjust lighting moods.



Figure 8: FRITZ!DECT Radiator Control

This image shows a FRITZ!DECT radiator control unit, used for smart temperature management in your home.



Figure 9: FRITZ!DECT LED Light Bulb

This image displays a FRITZ!DECT LED light bulb, which can be integrated into your Smart Home system for intelligent lighting control.



Figure 10: FRITZ!DECT Smart Plug

This image shows a FRITZ!DECT smart plug, used for remotely switching electrical devices and monitoring their energy consumption.

4.5 FRITZ!OS Operating System

The FRITZ!Box 7530 AX runs on the intuitive FRITZ!OS operating system, offering a wide range of features and regular automatic updates for new functionalities and enhanced security.

Your browser does not support the video tag.

Video 1: FRITZ!Box 7530 AX Product Overview

This video provides a comprehensive overview of the FRITZ!Box 7530 AX, highlighting its key features such as high-speed internet connectivity, Wi-Fi 6, telephony, Smart Home integration, and the user-friendly FRITZ!OS with automatic updates.

5. MAINTENANCE

- **Regular Firmware Updates:** Ensure your FRITZ!Box firmware is always up-to-date. FRITZ!OS offers automatic updates, which can be enabled in the settings.
- **Cleanliness:** Keep the device free from dust. Use a soft, dry cloth for cleaning. Do not use liquid cleaners.

- **Optimal Placement:** Place the FRITZ!Box in a central location, away from large metal objects or other electronic devices that might cause interference, to maximize Wi-Fi coverage.
- **Backup Settings:** Regularly back up your FRITZ!Box settings from the FRITZ!OS interface ("System" > "Backup") to easily restore them if needed.

6. TROUBLESHOOTING

6.1 Common Issues and Solutions

Problem	Possible Cause	Solution
No Internet Connection	DSL cable loose, incorrect provider settings, DSL line issue.	Check DSL cable connection. Verify internet access data in FRITZ!OS. Contact your internet service provider if the "Power/DSL" LED flashes continuously.
Poor Wi-Fi Signal	Router placement, interference, outdated Wi-Fi drivers.	Relocate FRITZ!Box to a central position. Avoid placing near large metal objects or microwaves. Update Wi-Fi drivers on your devices. Consider using FRITZ!Repeater for extended coverage.
Telephone Not Working	Incorrect connection, misconfigured telephone number, DECT registration issue.	Ensure telephone is correctly plugged into "FON" port. Check telephone settings in FRITZ!OS. Re-register DECT phones if necessary.
Cannot Access FRITZ!OS Interface	Incorrect IP address, network issue, browser cache.	Ensure your device is connected to the FRITZ!Box. Try http://fritz.box or http://192.168.178.1 . Clear your browser's cache or try a different browser.

6.2 Factory Reset

If you encounter persistent issues, a factory reset can resolve many problems by reverting the FRITZ!Box to its default settings. **Warning: This will erase all your custom settings.**

1. **Via FRITZ!OS:** Navigate to "System" > "Backup" > "Factory Settings" and click "Load Factory Settings".
2. **Hardware Reset:** Unplug the power adapter. Wait 10 seconds. Plug the power adapter back in. While the "Info" LED is flashing, press and hold the "Connect/WPS" button for about 15 seconds until all LEDs flash. Release the button. The FRITZ!Box will restart with factory settings.

7. TECHNICAL SPECIFICATIONS

Feature	Specification
Model	AVM FRITZ!Box 7530 AX
Connectivity Type	WLAN, DECT

Feature	Specification
WLAN Standard	Wi-Fi 6 (802.11ax)
WLAN Frequencies	Dual-Band (5 GHz & 2.4 GHz)
WLAN Speed (5 GHz)	Up to 1800 MBit/s
WLAN Speed (2.4 GHz)	Up to 600 MBit/s
DSL Speed	Up to 300 MBit/s (VDSL-Supervectoring 35b)
LAN Ports	4 x Gigabit-LAN
USB Ports	1 x USB 2.0
DECT Base Station	Integrated, for up to 6 cordless phones
Dimensions (L x W x H)	20.8 x 15 x 3.7 cm
Weight	318 g
Operating System	FRITZ!IOS (compatible with all OS)

8. WARRANTY AND SUPPORT

AVM provides regular software updates for the FRITZ!Box 7530 AX to ensure optimal performance and security. For detailed warranty information, please refer to the official AVM website or your purchase documentation.

For technical support, FAQs, and further resources, please visit the official AVM support page:

- **AVM Support:** <https://en.avm.de/service/>
- **FRITZ!Box Manuals:** <https://en.avm.de/service/manuals/>

You can also find helpful information and community support through various online forums and resources dedicated to FRITZ!Box products.