

## AVM Fritz!Repeater 2400 (Model 20002887)

# AVM FRITZ!Repeater 2400 International

## INSTRUCTION MANUAL

### 1. Introduction

Welcome to the instruction manual for your AVM FRITZ!Repeater 2400 International. This device is designed to extend the range of your existing Wi-Fi network, providing faster and more stable wireless connectivity throughout your home or office. With dual-band support (2.4 GHz and 5 GHz) and a Gigabit LAN port, it ensures optimal performance for all your connected devices. This manual will guide you through the setup, operation, and maintenance of your repeater.

### 2. Safety Instructions

Please read these safety instructions carefully before operating the device to prevent injury or damage.

- Use the device only indoors.
- Do not expose the device to moisture, dust, or extreme temperatures.
- Ensure proper ventilation; do not cover ventilation openings.
- Only use the power adapter supplied with the device.
- Do not open the device casing. Repairs should only be performed by authorized personnel.
- Keep the device away from strong electromagnetic fields.

### 3. Package Contents

Verify that all items are present in your package:

- AVM FRITZ!Repeater 2400 International
- 1 x Network Cable



The retail packaging box for the AVM FRITZ!Repeater 2400, displaying product features like Wi-Fi 5, Gigabit LAN, and Mesh Wi-Fi.

## 4. Product Overview

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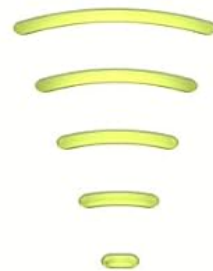
The FRITZ!Repeater 2400 is a compact device designed for easy integration into your home network. It features LED indicators on the front to show its status and Wi-Fi signal strength, and a Gigabit LAN port on the bottom for wired connections.

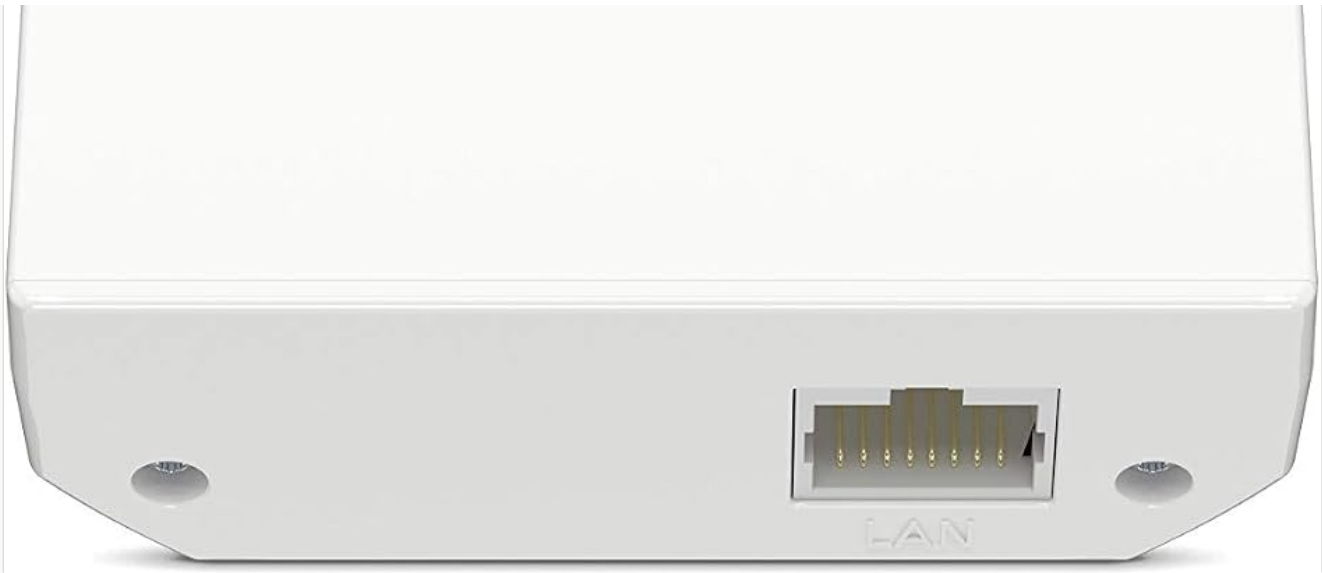




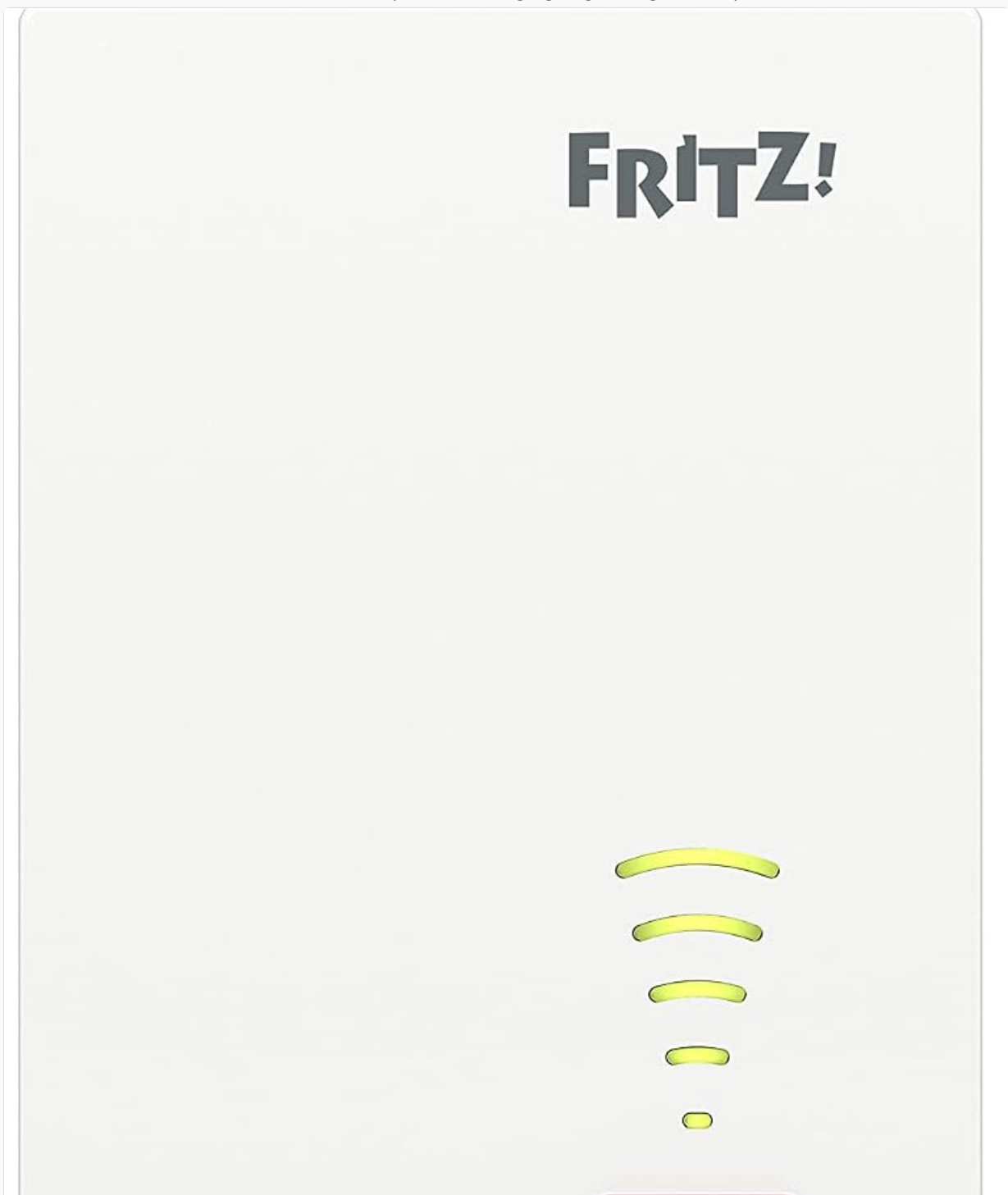
Front view of the AVM FRITZ!Repeater 2400, showing the FRITZ! logo, Wi-Fi signal strength indicators, and the red "Connect" button.

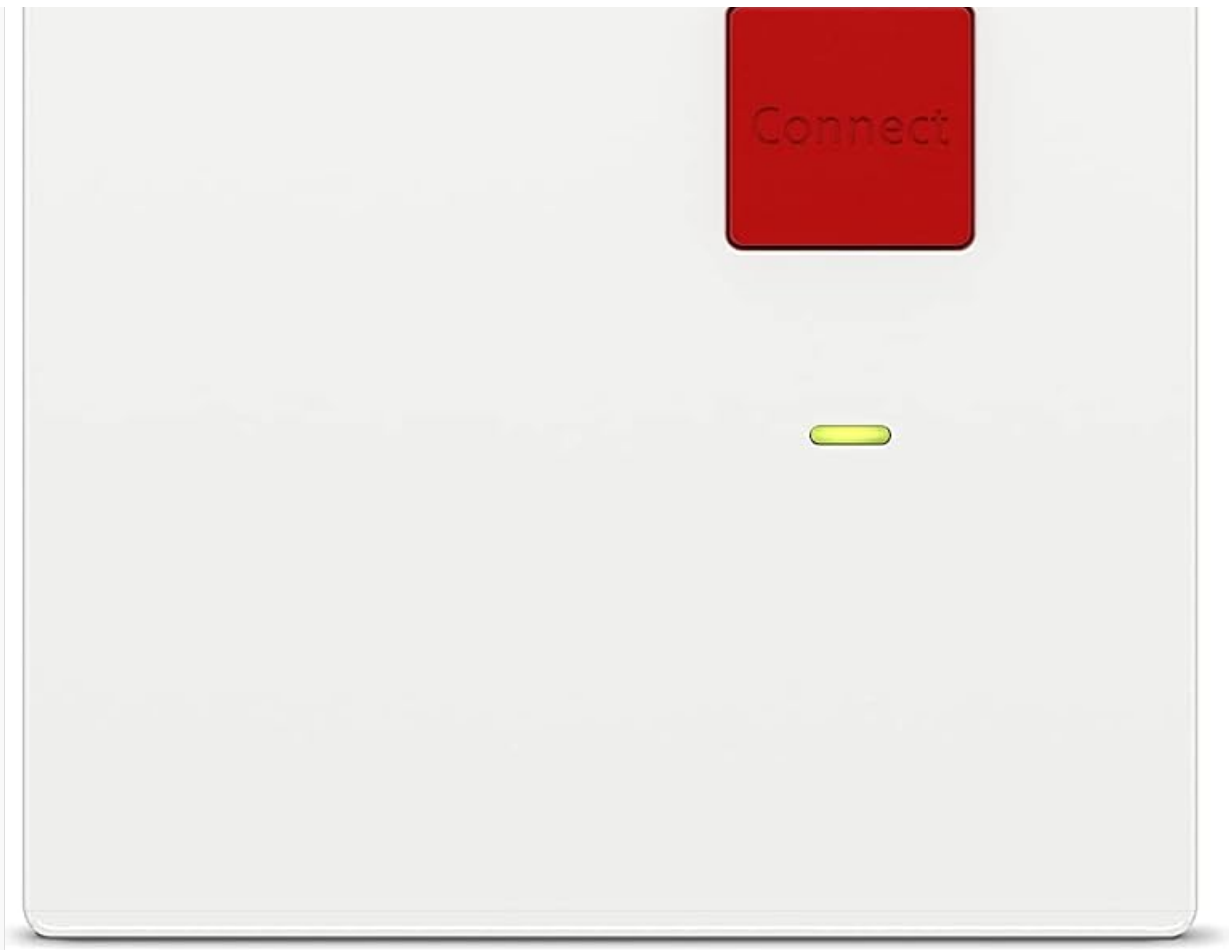
**FRITZ!**





Back view of the AVM FRITZ!Repeater 2400, highlighting the Gigabit LAN port at the bottom.





Close-up front view of the AVM FRITZ!Repeater 2400, focusing on the LED indicators for Wi-Fi signal strength and the "Connect" button.

### LED Indicators:

- **Wi-Fi Signal LEDs:** Indicate the strength of the Wi-Fi connection to your router. More illuminated LEDs mean a stronger signal.
- **Connect Button:** Used for WPS (Wi-Fi Protected Setup) to quickly connect to your router.

## 5. Setup

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The FRITZ!Repeater 2400 offers two primary setup methods: WPS (Wi-Fi Protected Setup) for quick wireless connection, and LAN Bridge mode for wired connection to your router.

### 5.1. WPS Setup (Recommended for FRITZ!Box and WPS-enabled routers)

1. Plug the FRITZ!Repeater 2400 into a power outlet near your Wi-Fi router.
2. Wait for the repeater to boot up (LEDs will flash).
3. Press and hold the **Connect** button on the FRITZ!Repeater for about 1 second until the Wi-Fi LEDs start flashing rapidly.
4. Within 2 minutes, press the WPS button on your Wi-Fi router (often labeled WPS or with a Wi-Fi symbol).
5. The repeater will automatically connect to your router. Once connected, the Wi-Fi LEDs on the repeater will light up steadily, indicating signal strength.
6. Unplug the repeater and move it to a central location between your router and the area where you need extended Wi-Fi coverage. Plug it into a power outlet. Ensure at least two Wi-Fi signal LEDs are lit for optimal performance.

## 5.2. LAN Bridge Setup (Wired Connection)

You can connect the FRITZ!Repeater 2400 to your router via an Ethernet cable to use it as a Wi-Fi access point.

1. Plug the FRITZ!Repeater 2400 into a power outlet.
2. Connect one end of the supplied network cable to the Gigabit LAN port on the repeater.
3. Connect the other end of the network cable to a free LAN port on your router.
4. The repeater will automatically configure itself as an access point, extending your network via the wired connection.

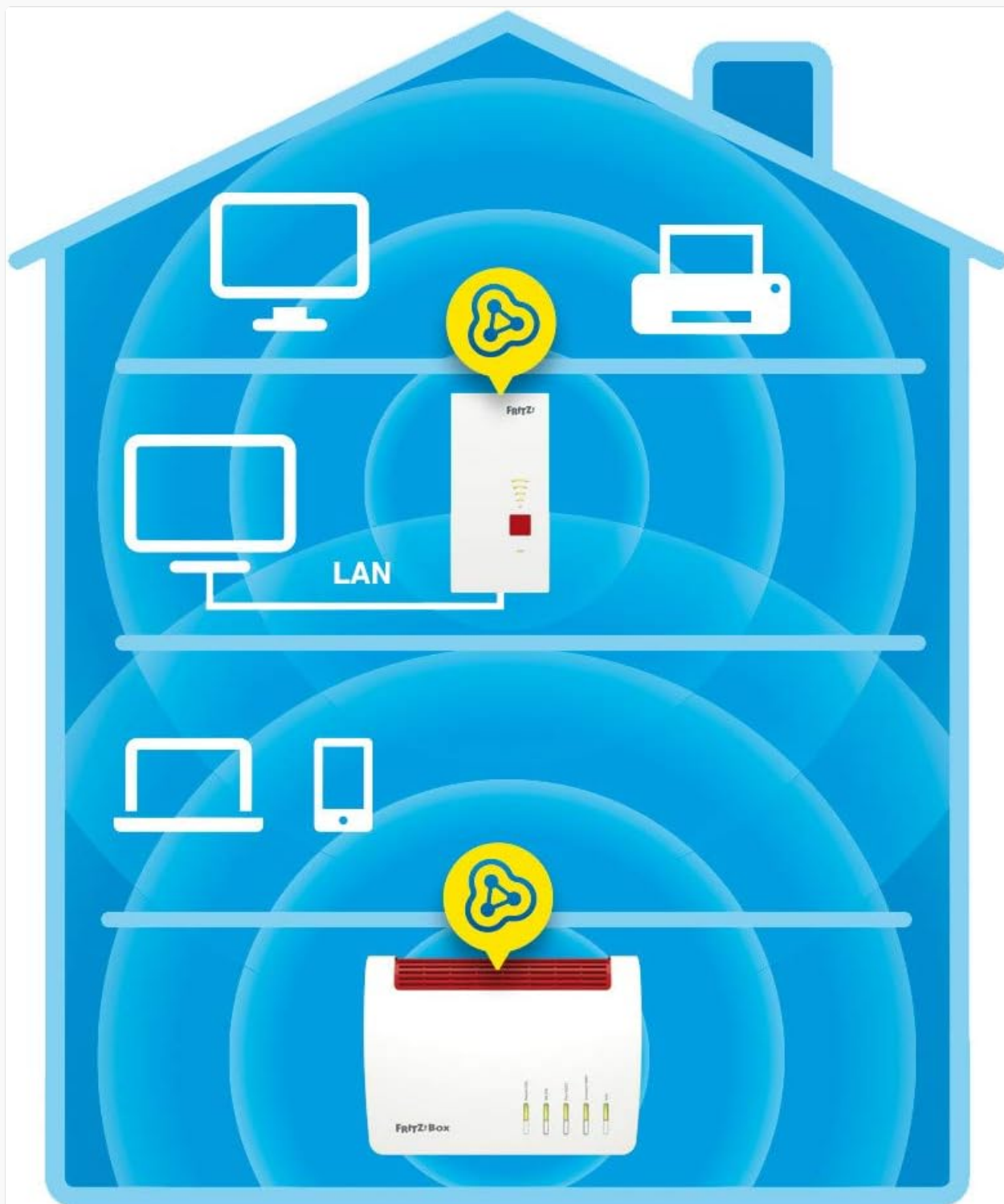


Diagram illustrating the placement of the FRITZ!Repeater 2400 within a home, showing how it extends Wi-Fi coverage to different rooms and devices.

## 6. Operation

### 6.1. Mesh Wi-Fi

When used with a FRITZ!Box, the FRITZ!Repeater 2400 automatically integrates into the FRITZ! Mesh Wi-Fi network. This creates a single, unified Wi-Fi network with optimal performance and seamless roaming for your devices. Your devices will automatically connect to the access point with the best signal.



A floor plan diagram showing optimal placement of the FRITZ!Box and FRITZ!Repeater 2400 across two levels of a house to ensure comprehensive Wi-Fi coverage.

### 6.2. Using the FRITZ!App WLAN

The FRITZ!App WLAN (available for iOS and Android) helps you find the ideal location for your FRITZ!Repeater. It provides real-time signal strength measurements, allowing you to position the repeater where it can achieve the best connection to your router and provide maximum coverage.



A family (father, mother, and daughter) relaxing in a living room, using a tablet and reading, demonstrating seamless connectivity provided by the Wi-Fi repeater.

## 7. Maintenance

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To ensure the longevity and optimal performance of your FRITZ!Repeater 2400, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry, lint-free cloth to clean the device. Do not use liquid or aerosol cleaners.
- **Ventilation:** Ensure that the ventilation slots are not blocked. Do not place the device in enclosed spaces without airflow.
- **Storage:** If storing the device for an extended period, unplug it from the power outlet and store it in a cool, dry place.
- **Firmware Updates:** Regularly check for and install firmware updates from the AVM website to ensure the best performance and security.

## 8. Troubleshooting

If you encounter issues with your FRITZ!Repeater 2400, refer to the table below for common problems and solutions.

| Problem                             | Possible Cause                                                    | Solution                                                                                                                                                                              |
|-------------------------------------|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Repeater not powering on.           | No power, faulty outlet, or damaged device.                       | Check power outlet, try a different outlet. Ensure the power adapter is securely connected.                                                                                           |
| No Wi-Fi signal from repeater.      | Not connected to router, too far from router, or incorrect setup. | Ensure WPS setup was successful (steady Wi-Fi LEDs). Move repeater closer to the router. Re-run WPS setup.                                                                            |
| Slow Wi-Fi speed.                   | Poor signal strength, interference, or network congestion.        | Relocate the repeater to a position with better signal (check Wi-Fi LEDs). Avoid placing near large metal objects or other electronics. Use FRITZ!App WLAN to find optimal placement. |
| Devices not connecting to repeater. | Incorrect Wi-Fi password, or device compatibility issues.         | Ensure you are using the correct Wi-Fi password for your network. Restart the repeater and the device attempting to connect.                                                          |
| LAN port not working.               | Faulty Ethernet cable, incorrect router port, or device issue.    | Try a different Ethernet cable. Connect to a different LAN port on your router. Ensure the connected device's network settings are correct.                                           |

## 9. Specifications

Detailed technical specifications for the AVM FRITZ!Repeater 2400 International:

| Feature                | Description                                                      |
|------------------------|------------------------------------------------------------------|
| Model Number           | 20002887                                                         |
| Wireless Standards     | 802.11ac, 802.11n, 802.11g, 802.11b, 802.11a                     |
| Frequency Bands        | Dual-Band (2.4 GHz and 5 GHz)                                    |
| Data Transfer Rate     | Up to 1,733 Mbps (5 GHz) + 600 Mbps (2.4 GHz) = 2,333 Mbps total |
| Ethernet Port          | 1 x Gigabit LAN (10/100/1000Base-T)                              |
| Security               | WPA2 encryption                                                  |
| Dimensions (L x W x H) | 7.65 x 6.26 x 15.5 cm (approx. 7.6 x 6.3 x 15.5 centimetres)     |
| Weight                 | 160 Grams                                                        |

| Feature          | Description                                                |
|------------------|------------------------------------------------------------|
| Power Source     | Plug Type C (EU)                                           |
| Special Features | Mesh Wi-Fi, Access Point Mode, WPS, FRITZ!App WLAN support |

## 10. Warranty and Support

Your AVM FRITZ!Repeater 2400 International comes with a manufacturer's warranty. Please refer to the warranty card included in your package or visit the official AVM website for detailed warranty terms and conditions specific to your region.

For technical support, troubleshooting assistance, or further inquiries, please visit the AVM support website or contact their customer service. Up-to-date drivers, firmware, and FAQs are typically available on the official AVM support pages.



An award badge from "Grupo ADSL Zone" for "Mejor Repetidor Wi-Fi con Roaming 2020" (Best Wi-Fi Repeater with Roaming 2020) for the AVM FRITZ!Repeater 2400.



An award badge for "Mejores Dispositivos Wi-Fi Extender 2020" (Best Wi-Fi Extender Devices 2020) for AVM Fritz! WLAN 2400.

