

Teltonika PR1KRD30

Teltonika PR1KRD30 Wi-Fi Dual-Band Magnetic SMA Antenna Instruction Manual

Model: PR1KRD30

1. INTRODUCTION

This instruction manual provides essential information for the proper installation, operation, and maintenance of the Teltonika PR1KRD30 Wi-Fi Dual-Band Magnetic SMA Antenna. This antenna is designed to enhance Wi-Fi connectivity for compatible Teltonika routers, specifically the RUTX10, RUTX11, RUTX12, RUTX14, and RUTXR1 models.

The PR1KRD30 antenna features dual-band support, a magnetic mounting base for flexible placement, and an RP-SMA male connector for secure attachment.

2. PACKAGE CONTENTS

- 1x Teltonika PR1KRD30 Wi-Fi Dual-Band Magnetic SMA Antenna

3. SETUP AND INSTALLATION

Follow these steps to properly set up your Teltonika PR1KRD30 antenna:

- Identify Connection Ports:** Locate the Wi-Fi antenna ports on your compatible Teltonika router (RUTX10, RUTX11, RUTX12, RUTX14, or RUTXR1). These ports are typically labeled for Wi-Fi antennas.
- Connect the Antenna:** Carefully align the RP-SMA male connector of the PR1KRD30 antenna with the corresponding Wi-Fi antenna port on your router. Gently screw the connector clockwise until it is finger-tight. Avoid over-tightening to prevent damage.
- Position the Antenna:** The PR1KRD30 features a magnetic base. Place the antenna on a flat, metallic surface for optimal stability and signal reception. Consider placing it in an elevated position or near a window for improved signal strength. The antenna cable length is 1.5 meters, allowing for flexible placement.
- Verify Connection:** Ensure the antenna is securely attached and positioned. Once connected, power on your router and verify Wi-Fi functionality.



Image: The Teltonika PR1KRD30 antenna, showing its magnetic base and the RP-SMA male connector at the end of its 1.5-meter cable. This antenna is designed for enhancing Wi-Fi signals for compatible Teltonika routers.

4. OPERATING INSTRUCTIONS

The Teltonika PR1KRD30 antenna operates passively to enhance the Wi-Fi signal of your connected router. No specific user configuration is required for the antenna itself once it is physically connected.

- **Dual-Band Operation:** The antenna supports both 2.4 GHz (2400-2483.5 MHz) and 5 GHz (5150-5905 MHz) Wi-Fi frequency bands, providing flexibility for various network environments.
- **Signal Optimization:** For optimal performance, ensure the antenna is positioned away from large metal objects or other sources of electromagnetic interference. Experiment with different placements to find the best signal strength.
- **Router Settings:** Any Wi-Fi network configuration, such as SSID, password, or channel selection, is managed through your connected Teltonika router's interface. Refer to your router's manual for these settings.

5. MAINTENANCE

The Teltonika PR1KRD30 antenna requires minimal maintenance to ensure long-term performance.

- **Cleaning:** Periodically wipe the antenna's exterior with a soft, dry cloth to remove dust. Do not use harsh chemicals or abrasive cleaners.
- **Environmental Conditions:** The antenna is designed to operate within a temperature range of -40 °C to +75 °C. Avoid exposing it to extreme temperatures outside this range or to excessive moisture.
- **Physical Inspection:** Regularly check the cable and connector for any signs of damage. Ensure the magnetic base remains securely attached to its mounting surface.

6. TROUBLESHOOTING

If you experience issues with your antenna, consider the following troubleshooting steps:

- **Poor Wi-Fi Signal:**
 - Ensure the antenna is securely connected to the router's Wi-Fi port.
 - Relocate the antenna to a different position, preferably higher or closer to the area requiring better coverage, and away from obstructions.
 - Verify that your router's Wi-Fi settings are correctly configured (e.g., correct frequency band selected if applicable).
- **No Wi-Fi Connection:**
 - Confirm the antenna connector is fully tightened.
 - Test with another compatible antenna if available, to rule out an antenna fault.
 - Check your router's status indicators and settings to ensure its Wi-Fi module is active.
- **Physical Damage:** If the antenna or cable appears damaged, discontinue use and contact your reseller or Teltonika support for assistance.

7. SPECIFICATIONS

Feature	Specification
Model	PR1KRD30
Frequency Range	2400-2483.5 MHz / 5150-5905 MHz (Dual-Band)
Polarization	Vertical
Gain	3 dBi
V.S.W.R	<2.0
Impedance	50 Ohm
Cable Type	RG174
Cable Length	1.5 meters
Connector	RP-SMA Male
Mounting Method	Magnetic

Feature	Specification
Operating Temperature	-40 °C to +75 °C
Compatibility	Teltonika RUTX10, RUTX11, RUTX12, RUTX14, RUTXR1 Routers

8. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation provided with your purchase or contact your authorized Teltonika reseller. General product support and technical assistance can be obtained through the official Teltonika Networks website or by contacting their customer support channels.