

TNP Products 10 dBi WiFi Antenna

TNP 10 dBi 2.4 GHz Omni-Directional WiFi Antenna User Manual

Model: 10 dBi WiFi Antenna

INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your TNP 10 dBi 2.4 GHz Omni-Directional WiFi Antenna. This antenna is designed to enhance the range and strength of your wireless signal, providing improved connectivity for compatible devices.

PRODUCT OVERVIEW

The TNP 10 dBi WiFi Antenna is an external, omni-directional antenna designed to transmit and expand wireless connections in all directions. It features an RP-SMA connector for broad compatibility with various networking devices.

Key Features:

- **High Gain:** 10 dBi for significant signal strength and range improvement.
- **Omni-Directional:** Transmits signals in all directions, reducing dead spots.
- **2.4 GHz Frequency:** Optimized for common WiFi bands.
- **RP-SMA Connector:** Ensures wide compatibility with routers, PC cards, and other devices.
- **Easy Installation:** Simple screw-on replacement for existing antennas.



Figure 1: High-Gain Antenna Overview. This image displays four different designs of the TNP 10 dBi WiFi antenna, highlighting its high-gain capability and RP-SMA connector for 2.4 GHz applications.

SPECIFICATIONS

Feature	Detail
Antenna Type	Omni-directional
Frequency	2400-2483 MHz (2.4 GHz)
Gain	10 dBi
Connector Type	RP-SMA (Reverse Polarity SMA)
Impedance	50 Ohm
VSWR	<1.5

Feature	Detail
Wireless Coverage Range	980 - 1148 ft (300 - 500 M)
Color	Black



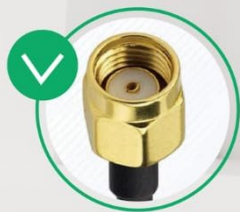
Figure 2: Product Dimensions. This image illustrates the physical dimensions of two antenna variants, showing lengths of 13.77 inches and 15.35 inches, and a base width of 1.37 inches.

SETUP AND INSTALLATION

The TNP 10 dBi WiFi Antenna is designed for easy installation. Follow these steps to replace your existing antenna or install a new one:

- 1. Identify Compatible Device:** Ensure your device (e.g., wireless router, PC, Camera DVR, VoIP device, PCI card) has an RP-SMA connector. This antenna is compatible with RP-SMA (no pin in the center of the connector on the antenna side) and not standard SMA (which has a pin).

Correct Access Point



RP-SMA Male
(No Pin)



SMA Male
(Have Pin)



Figure 3: Correct Access Point Connector. This diagram differentiates between RP-SMA Male (correct, no pin) and SMA Male (incorrect, with pin) connectors, crucial for proper antenna installation.

2. **Power Off Device:** Before installation, power off and unplug your wireless device to prevent any damage.
3. **Remove Existing Antenna (if applicable):** Gently unscrew the existing antenna from your device by turning it counter-clockwise.
4. **Attach New Antenna:** Carefully screw the TNP 10 dBi WiFi Antenna onto the RP-SMA connector of your device by turning it clockwise until it is finger-tight. Do not overtighten.



Figure 4: Antenna Connection to Router. This image demonstrates how to connect the antenna to a wireless router, with a detailed inset of the RP-SMA connector for clarity.

5. **Adjust Antenna Position:** The antenna features a hinged joint for adjustment. Position the antenna vertically for optimal omni-directional coverage.
6. **Power On Device:** Plug in and power on your device. The antenna should now be active.

OPERATION

Once installed, the TNP 10 dBi WiFi Antenna operates automatically with your compatible wireless device. No additional software or configuration is typically required. The antenna will work to extend the range and improve the stability of your 2.4 GHz wireless network.

- For best performance, ensure the antenna is positioned vertically and unobstructed.
- The omni-directional design means the antenna broadcasts and receives signals equally in all horizontal directions.
- Monitor your device's signal strength indicators to observe the improvement in connectivity.

MAINTENANCE

The TNP 10 dBi WiFi Antenna requires minimal maintenance. Follow these guidelines to ensure optimal performance and longevity:

- **Cleaning:** Use a soft, dry cloth to wipe the antenna clean. Avoid using liquid cleaners or solvents.
- **Physical Inspection:** Periodically check the antenna for any physical damage or loose connections.
- **Environmental Conditions:** Ensure the antenna is used in a dry environment and protected from extreme temperatures or direct moisture, unless specifically rated for outdoor use (this model is typically for indoor use with routers).

TROUBLESHOOTING

Problem	Possible Cause	Solution
No signal improvement or worse signal.	Incorrect connector type; antenna not securely attached; interference; device not compatible.	◦ Verify your device uses an RP-SMA connector (no pin on the device side). ◦ Ensure the antenna is screwed on tightly. ◦ Try repositioning the antenna or the wireless device. ◦ Confirm your device operates on the 2.4 GHz frequency.
Antenna feels loose or wobbly at the base.	Hinged joint may have dislodged or been over-stressed.	◦ Handle the antenna gently during adjustment. ◦ If the joint is damaged, the antenna may need replacement.
Antenna does not fit the device.	Incompatible connector type.	◦ Double-check your device's specifications for the correct connector type (RP-SMA is required). ◦ Refer to Figure 3 for visual identification of RP-SMA vs. SMA connectors.

WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the official TNP Products website or contact their customer service directly. Details are typically provided with your purchase documentation or on the product packaging.

Note: This product is from a small business brand. Support small businesses.

ASK A QUESTION ABOUT THIS MANUAL

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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