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› [Proxicast](#) /

› Proxicast ANT-132-S02 Ultra Low Profile WiFi Antenna User Manual

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Proxicast ANT-132-S02 Ultra Low Profile WiFi Antenna User Manual

Model: ANT-132-S02 | Brand: Proxicast

1. PRODUCT OVERVIEW

The Proxicast ANT-132-S02 is an ultra-low profile, omni-directional MIMO WiFi antenna designed for both indoor and outdoor applications. This antenna supports dual-band and triple-band frequencies (2.4 GHz, 5.8 GHz, and 6 GHz), making it compatible with Wi-Fi 5, Wi-Fi 6, Wi-Fi 6E, and Wi-Fi 7 systems. Its compact "puck" design and through-hole screw mount make it ideal for discreet and vandal-resistant installations in various environments, including kiosks, vending machines, control panels, NEMA enclosures, and vehicles.



Figure 1: Proxicast ANT-132-S02 Ultra Low Profile WiFi Antenna. The antenna unit, showcasing its low-profile design and dual RP-SMA male connectors with integrated coaxial cables.

2. KEY FEATURES

- **Ultra Low Profile Design:** Measures only 0.65 inches tall and 3.2 inches in diameter, making it highly discreet.
- **Dual/Triple Band Support:** Compatible with 2.4 GHz, 5.8 GHz, and 6 GHz Wi-Fi bands (802.11 a/b/g/n/ac/ax/be).
- **2x2 MIMO Technology:** Enhances transmit and receive signal performance for improved Wi-Fi connectivity.
- **Omni-Directional Gain:** Provides 2/4 dBi omnidirectional gain, ensuring broad signal coverage.
- **Through-Hole Screw Mount:** Secure and vandal-resistant installation with only one hole required.
- **Integrated Coax Cables:** Features two 3-foot long coax cables terminated with RP-SMA male connectors.
- **IP67 Weatherproof Rating:** Suitable for harsh indoor and outdoor environments, resistant to dust and water immersion.
- **Paintable Surface:** Allows for customization to blend with the installation environment.

ANT-132-S02 Dimensions



Figure 2: Ultra Low Profile Comparison. A visual comparison showing the antenna's minimal height (0.65 inches) relative to a standard Oreo cookie, emphasizing its discreet design.

3. PACKAGE CONTENTS

Please verify that all items are present and in good condition upon opening the package:

- 1x Proxicast ANT-132-S02 Ultra Low Profile WiFi Antenna with integrated 3 ft Coax Cables
- 1x Mounting Nut
- 1x Adhesive Pad (pre-attached or separate)

4. INSTALLATION AND SETUP

Follow these steps for proper installation of your ANT-132-S02 antenna:

1. **Choose a Mounting Location:** Select a flat, stable surface for mounting. Ensure the location allows for the

antenna's cables to reach your Wi-Fi device without excessive strain or bending. The antenna is designed for through-hole mounting on panels, enclosures, or ceilings.

2. **Drill Mounting Hole:** Drill a single hole of appropriate diameter (refer to specifications for exact dimensions, typically around 0.5 inches) at the chosen mounting point. Ensure the hole is clean and free of burrs.
3. **Insert Antenna:** Pass the antenna's threaded shaft and integrated cables through the drilled hole from the outside of the mounting surface.
4. **Secure Antenna:** From the inside of the mounting surface, thread the provided mounting nut onto the antenna's shaft. Tighten the nut securely by hand, then use a wrench to ensure a firm, stable connection. Do not overtighten. The adhesive pad on the antenna's base provides additional stability and sealing.
5. **Connect to Device:** Connect the two RP-SMA male connectors from the antenna's coax cables to the corresponding RP-SMA female ports on your Wi-Fi router, access point, or other compatible device. Ensure the connections are finger-tight.

Through Hole Mount



Figure 3: Through-Hole Mount Detail. A detailed view of the antenna's through-hole mounting system, showing the securing nut and cable passing through the mounting surface.

Dual RP-SMA Male Plugs



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Figure 4: RP-SMA Male Connectors. The two RP-SMA male connectors, clearly labeled 'WIFI', which connect the antenna to compatible Wi-Fi devices.

IP67 Waterproof



Figure 5: ANT-132-S02 Dimensions. An annotated diagram illustrating the physical dimensions of the ANT-132-S02 antenna, including its 0.65-inch height, 3.2-inch diameter, and 3-foot coax cable length, along with the mounting nut and adhesive pad.

5. OPERATING INSTRUCTIONS

Once properly installed and connected, the Proxicast ANT-132-S02 antenna operates passively to enhance your Wi-Fi signal. No specific user interaction is required for its operation.

- Ensure your Wi-Fi device (router, access point) is powered on and configured correctly for network operation.
- The antenna will automatically receive and transmit Wi-Fi signals across its supported frequency bands (2.4 GHz, 5.8 GHz, 6 GHz).
- For optimal performance, ensure the antenna is not obstructed by large metal objects or dense materials that could interfere with signal propagation.

Tri-Band Wi-Fi 2x2 MIMO Antenna ANT-132-S02




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Figure 6: Antenna Mounted on Enclosure. The ANT-132-S02 antenna installed on top of an industrial enclosure, demonstrating its compact and discreet profile for operational use.

6. MAINTENANCE

The Proxicast ANT-132-S02 antenna is designed for durability and requires minimal maintenance due to its robust construction and IP67 weatherproof rating.

- **Cleaning:** Periodically wipe the antenna's surface with a soft, damp cloth to remove dust or dirt. Avoid using harsh chemicals or abrasive cleaners.
- **Inspection:** Occasionally check the mounting nut for tightness and ensure the cables are not damaged or excessively bent.
- **Painting:** The antenna's surface is paintable, allowing for color customization to match its environment. Ensure the paint used is suitable for outdoor use if installed externally.

Ultra Low Profile



Figure 7: IP67 Weatherproof Design. The antenna surface with water droplets, highlighting its IP67 weatherproof design suitable for outdoor and harsh environments, simplifying maintenance.

7. TROUBLESHOOTING

If you experience issues with your ANT-132-S02 antenna, consider the following troubleshooting steps:

- **Poor Signal Strength:**

- Ensure the antenna is mounted in an optimal location, free from obstructions like large metal objects, thick walls, or other electronic devices that could cause interference.
- Verify that the RP-SMA connectors are securely attached to your Wi-Fi device. Loose connections can significantly degrade performance.
- Check your Wi-Fi router/access point settings to ensure it is operating on the correct frequency band (2.4 GHz, 5.8 GHz, or 6 GHz) and that its transmit power is set appropriately.

- **No Wi-Fi Connection:**

- Confirm that your Wi-Fi device is powered on and functioning correctly.
- Ensure the antenna cables are not damaged (kinked, cut, or severely bent).
- Test with another known-good antenna or Wi-Fi device if possible, to isolate the problem.

• **Physical Damage:**

- Despite its robust design, inspect the antenna for any visible signs of damage, especially after severe weather conditions if installed outdoors.
- If the cables or connectors are damaged, the antenna may need replacement.

8. SPECIFICATIONS

Attribute	Value
Model Number	ANT-132-S02
Antenna Type	Ultra Low Profile Omni Directional MIMO WiFi Antenna
Frequency Bands	2.4 GHz, 5.8 GHz, 6 GHz (Dual/Triple Band)
Gain	2/4 dBi
Impedance	50 Ohm
Connectors	2x RP-SMA Male
Cable Length	3 ft (approx. 0.91 m)
Dimensions (H x Dia)	0.65" x 3.2" (1.65 cm x 8.13 cm)
Weight	4.2 ounces (approx. 119 g)
Mounting Type	Through-Hole Screw Mount
Weatherproof Rating	IP67
Maximum Range	300 Feet (approx. 91 m)
Color	Black

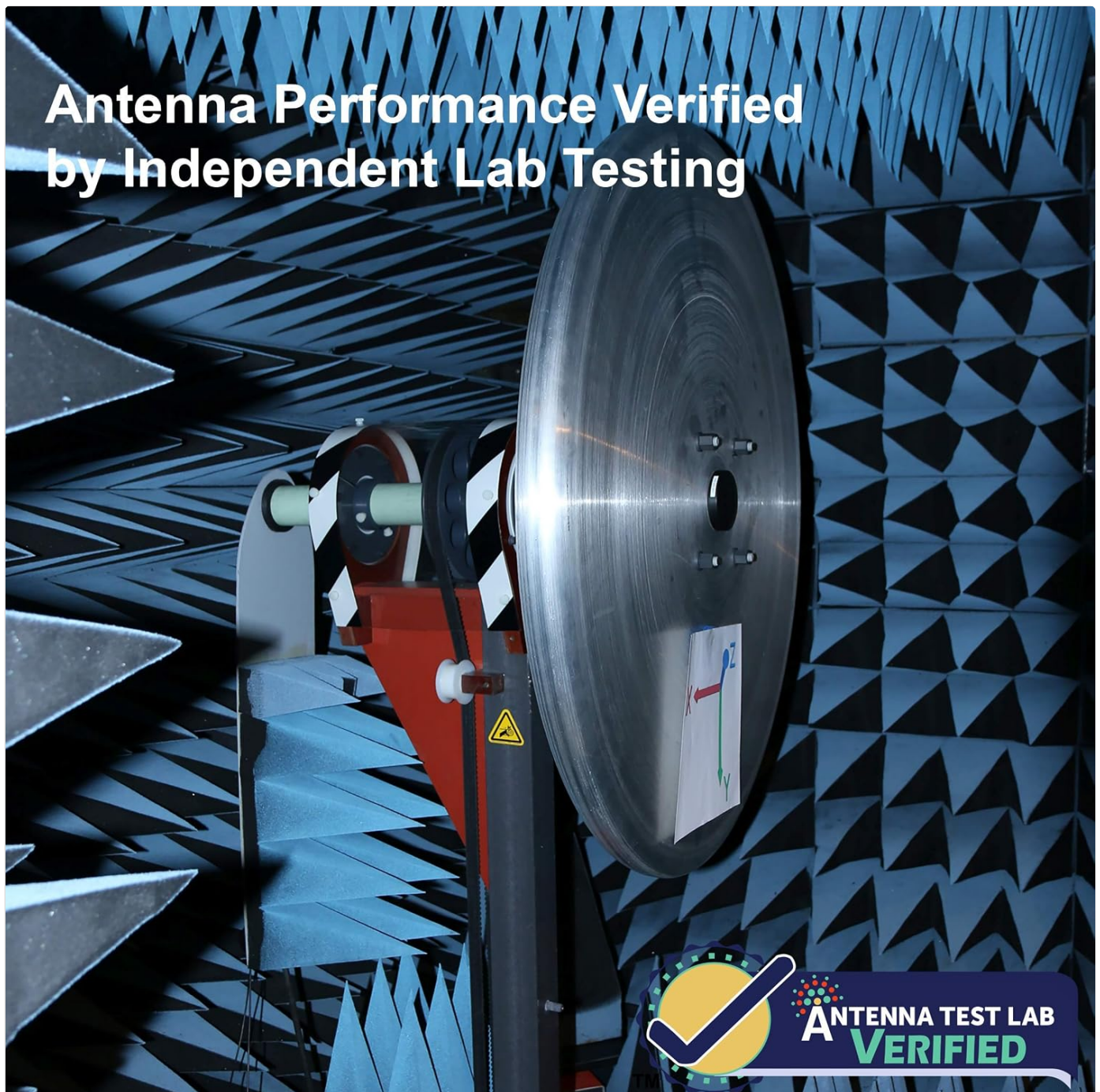


Figure 8: Antenna Performance Verification. An image from an independent lab test, showing the antenna mounted within an anechoic chamber for performance verification, ensuring reliable signal quality according to specifications.

9. WARRANTY AND SUPPORT

Proxicast products are designed for reliability and performance. For detailed warranty information and support, please refer to the official Proxicast documentation.

Important Note: Proxicast brand products are sold only by Proxicast LLC. Other sellers claiming to offer our products may be selling used, grey market, or counterfeit goods. Proxicast's warranty applies only to products sold by Proxicast unless otherwise noted.

For further assistance, you may refer to the official user guide PDF: [Download User Guide \(PDF\)](#)

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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.

Submit question