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› Poynting 5G-XPOL-1-V2-41 4x4 Omni Antenna User Manual

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Poynting 5G-XPOL-1-V2-41 4x4 Omni Antenna User Manual

Model: 5G-XPOL-1-V2-41

1. INTRODUCTION

The Poynting 5G-XPOL-1-V2-41 is a high-performance 4x4 omni-directional antenna designed for 5G cellular networks. This antenna is engineered to provide enhanced signal reception and transmission, improving connectivity for various applications. Its omni-directional pattern allows for reception from all directions, simplifying installation in many scenarios. This manual provides essential information for the proper installation, operation, and maintenance of your antenna.

2. SAFETY INFORMATION

Please read and understand all safety instructions before installing or operating the antenna. Failure to do so may result in injury or damage to equipment.

- **Mounting Safety:** Always ensure the antenna is securely mounted to a stable surface or pole. Avoid mounting near power lines or other electrical hazards.
- **Lightning Protection:** For outdoor installations, consider appropriate lightning protection measures in accordance with local electrical codes.
- **Cable Handling:** Do not bend or crimp antenna cables excessively. Ensure connectors are properly tightened to prevent moisture ingress.
- **Environmental Conditions:** The antenna is designed for outdoor use. However, avoid installation in locations prone to extreme physical impact or corrosive environments without additional protection.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- Poynting 5G-XPOL-1-V2-41 Antenna Unit
- Mounting Bracket (for pole or wall mount)
- Suction Cup Mount (for window mounting)
- Coaxial Cables with SMA Connectors (pre-attached or included)
- User Manual (this document)

4. SETUP AND INSTALLATION

Proper installation is crucial for optimal performance. Choose a mounting location that provides the clearest line of sight to cellular towers and is free from obstructions.

4.1. Mounting Options

The 5G-XPOL-1-V2-41 antenna offers versatile mounting options:

1. Pole Mounting:

Attach the provided mounting bracket to a sturdy pole using the included hardware. Ensure the pole is vertical and stable. Secure the antenna unit to the bracket.



Figure 1: Side view of the Poynting 5G-XPOL-1-V2-41 antenna, illustrating pole mounting.

2. Wall Mounting:

Use the mounting bracket to secure the antenna to a wall. Mark and drill pilot holes, then use appropriate screws and anchors (not always included) to fasten the bracket. Attach the antenna unit.

3. Window Suction Cup Mounting:

For temporary or indoor placement, the suction cup mount can be used. Clean the window surface thoroughly. Press the suction cups firmly against the glass until they create a strong seal. Attach the antenna to the suction cup mount.



Figure 2: Rear view of the Poynting 5G-XPOL-1-V2-41 antenna, showing the suction cup mounting option.

4.2. Cable Connection

Connect the coaxial cables from the antenna to the corresponding SMA ports on your 5G router or modem. Ensure all connections are finger-tight to prevent signal loss and moisture ingress. The antenna typically features four cables for 4x4 MIMO functionality.



Figure 3: Front view of the Poynting 5G-XPOL-1-V2-41 antenna.

4.3. Optimal Positioning

While omni-directional, positioning still impacts performance. Experiment with different heights and locations to find the best signal strength. Use your router's signal strength indicator or a mobile app to monitor signal quality during positioning. Higher locations generally provide better results by reducing obstructions.

5. OPERATING INSTRUCTIONS

Once the antenna is securely mounted and connected to your 5G router/modem:

1. **Power On:** Ensure your 5G router/modem is powered on.
2. **External Antenna Settings:** Some routers require you to enable external antennas in their settings. Consult your router's manual for specific instructions.
3. **Monitor Performance:** Observe the signal strength and data speeds provided by your router. Adjust antenna position slightly if needed to optimize performance.

6. MAINTENANCE

The Poynting 5G-XPOL-1-V2-41 antenna is designed for durability and requires minimal maintenance.

- **Cleaning:** Periodically clean the antenna housing with a soft, damp cloth to remove dirt, dust, or debris that may accumulate, especially in outdoor environments. Do not use harsh chemicals or abrasive cleaners.
- **Inspection:** Annually inspect the mounting hardware and cables for any signs of wear, corrosion, or damage. Ensure all connections remain tight.
- **Cable Integrity:** Check coaxial cables for cracks, fraying, or kinks, which can degrade signal quality. Replace damaged cables promptly.

7. TROUBLESHOOTING

If you experience issues with your antenna, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No signal or very weak signal	Incorrect cable connection	Verify all SMA connectors are securely tightened.
	Antenna not positioned optimally	Adjust antenna position and height.
	Router external antenna setting disabled	Enable external antenna mode in your router's settings.
	Obstructions blocking signal	Relocate antenna to a clearer line of sight.
	Damaged cables or connectors	Inspect and replace any damaged cables.
Slow data speeds	Suboptimal antenna placement	Fine-tune antenna position for better signal quality.
	Network congestion	Test speeds at different times of day.
	Router issues	Restart your 5G router.

8. SPECIFICATIONS

Key technical specifications for the Poynting 5G-XPOL-1-V2-41 antenna:

- **Model:** 5G-XPOL-1-V2-41
- **Brand:** Poynting
- **Antenna Type:** 4x4 Omni-Directional
- **Impedance:** 50 Ohm
- **Number of Channels:** 4
- **Product Dimensions:** 14.76"L x 10.63"W x 3.74"H (37.5 cm x 27 cm x 9.5 cm)
- **Item Weight:** 2.86 pounds (1.3 kg)
- **Color:** White
- **Maximum Range:** 5 Meters *(This likely refers to cable length or effective range for specific applications, not signal propagation distance.)*

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Poynting website or contact your authorized reseller. Keep your purchase receipt as proof of purchase for warranty claims.

Poynting Website: www.poynting.tech

