

[manuals.plus](#) /

› [Waveform](#) /

› [Waveform QuadPro 4x4 MIMO Panel Antenna User Manual](#)

Waveform QuadPro Antenna

Waveform QuadPro 4x4 MIMO Panel Antenna User Manual

Model: QuadPro Antenna

1. PRODUCT OVERVIEW

The Waveform QuadPro 4x4 MIMO Panel Antenna is designed to enhance cellular internet speeds for 4G and 5G routers and gateways. It features industry-leading 4x4 MIMO isolation technology and a directional design to target service provider towers, reducing noise and interference.



Image: The Waveform QuadPro 4x4 MIMO Panel Antenna shown alongside its user manual, highlighting its compact design and the accompanying documentation.

This antenna is outdoor-rated and includes a 20-foot UltraFlex Cable with weather-proofing boots for durable installation. It is compatible with various cellular providers such as T-Mobile, Verizon, and AT&T.

2. WHAT'S INCLUDED

The standard package for the Waveform QuadPro Antenna includes the following components:

- QuadPro 4x4 MIMO Panel Antenna
- 20' UltraFlex Cable (integrated with antenna)
- Weatherproofing Rubber Boots
- Mounting Hardware (Flex Mount)
- User Manual

Aim For More

Aim at a tower for cutting-edge 5G performance: Up to 9.1 dBi directional gain, 600-6000 MHz.



Image: A visual representation of the Waveform QuadPro Antenna kit contents, including the antenna unit, mounting bracket, and the user manual.

3. SPECIFICATIONS

Detailed technical specifications for the Waveform QuadPro Antenna and its components:

Antenna and Cable Specifications

Attribute	Detail
Brand	Waveform
Wireless Communication Standard	802.11ac
Frequency Bands Supported	4G, 5G (600-6000 MHz)
Peak Gain	Up to 9.1 dBi

Attribute	Detail
Coaxial Cable Impedance	50 Ω
VSWR	≤ 1.5
Cable Type	LMR195-UF equivalent
Inner Conductor	Solid Copper
Cable Diameter (Individual)	4.7 mm (0.195 in)
Cable Diameter (Group)	13.4 mm (0.53 in)
Outer Jacket	Soft TPE
Connectors	SMA Male (weatherproofed)
Outdoor Rated	Yes

Specifications:

Coaxial Cable

Impedance	VSWR	Cable Type	Inner Conductor
50 Ω	≤ 1.5	LMR195-UF equivalent	Solid Copper

Loss (per 10 ft)

0.9 dB @ 600 MHz | 1.9 dB @ 2500 MHz | 2.8 dB @ 5000 MHz

Diameter [Indiv.]

4.7 mm (0.195 in)

Diameter [group]

13.4 mm (0.53 in)

Outer Jacket

Soft TPE

Connectors

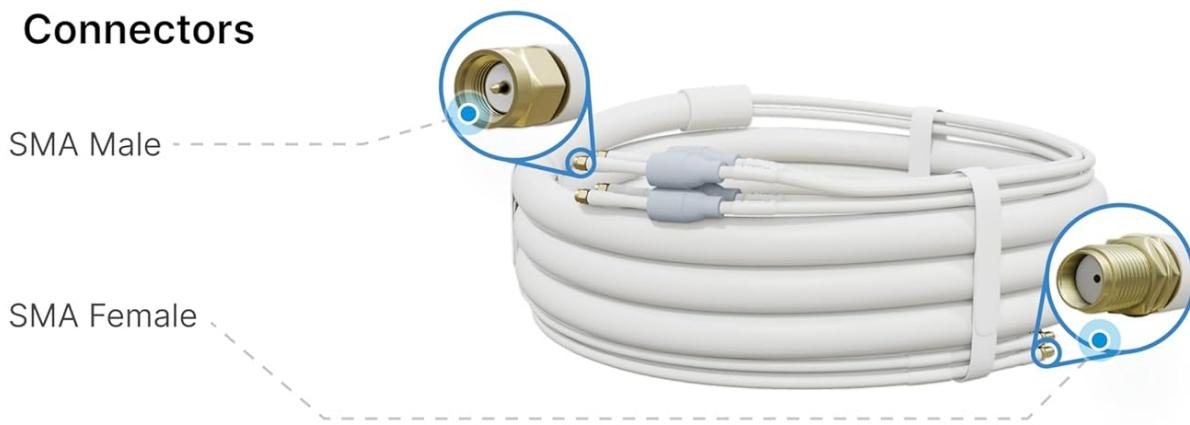


Image: A graphic detailing the coaxial cable specifications including impedance, VSWR, cable type, inner conductor, loss, diameter, outer jacket, and SMA male/female connectors.

4. SETUP GUIDE

Follow these steps for optimal installation and performance of your Waveform QuadPro Antenna.

4.1. Mount Your QuadPro Antenna

The QuadPro antenna can be mounted on a wall or a pole. Choose a location with a clear line of sight towards your service provider's cellular tower for best signal reception. Ensure the mounting surface is stable and secure.

Join over 50,000 Waveform customers who have unlocked incredible data speeds.

 Marion H. Verified Buyer	07/20/22	
		
Once was a skeptic.		
	Before 4x4 MIMO Panel	After 4x4 MIMO Panel
 Download Speed	55mbps	430mbps
 Upload Speed	8mbps	35mbps

David E. Verified Buyer	06/06/22	
Big improvement.		
	Before 4x4 MIMO Panel	After 4x4 MIMO Panel
Download Speed	4mbps	80mbps
Upload Speed	1mbps	20mbps

Image: Illustrations showing two primary mounting methods for the QuadPro antenna: directly on a wall or attached to a pole.

- Site Selection:** Identify the direction of your nearest cellular tower. Use online resources or signal strength apps to assist.
- Mounting:** Securely attach the Flex Mount to your chosen location (wall or pole) using appropriate hardware.
- Antenna Attachment:** Attach the QuadPro antenna to the Flex Mount, ensuring it is firmly in place.

4.2. Run Cables Inside

Carefully route the integrated UltraFlex cables from the antenna to the location of your cellular router or gateway. The 20-foot cable provides flexibility for optimal placement. For installations requiring cable entry through a window without drilling, consider using a compatible window entry cable (sold separately or included with complete kits).



Image: A diagram illustrating how to route the antenna cables indoors, specifically showing the use of a window entry cable to avoid drilling.

- Ensure cables are not kinked or sharply bent.
- Use the provided weatherproofing boots to protect SMA connectors from environmental elements at the antenna connection point.

Weatherproofing Boots

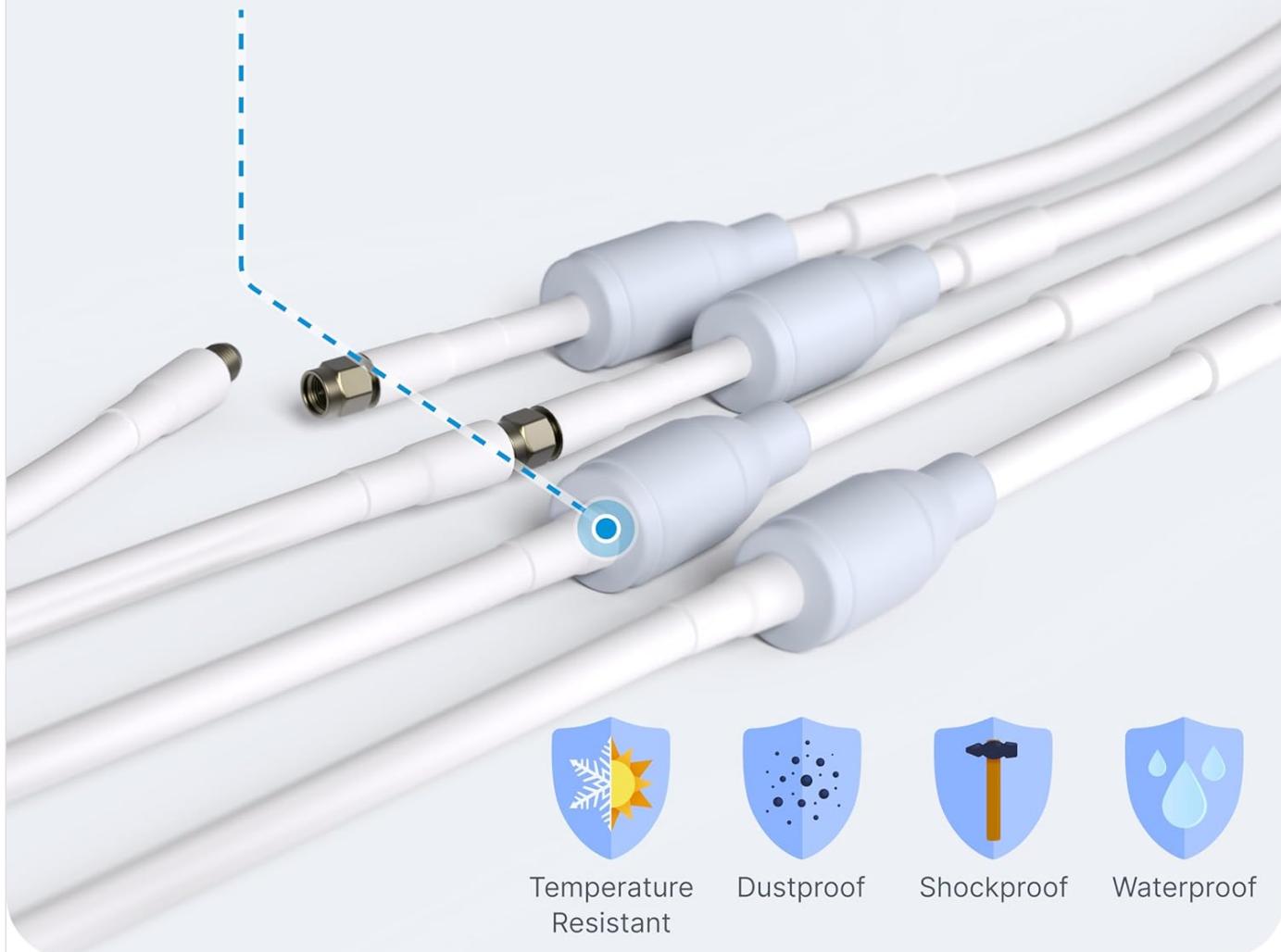


Image: A detailed view of the weatherproofing boots designed to protect the SMA connectors from moisture and dust, ensuring long-term durability.

4.3. Connect Your 5G Gateway/Router

Connect the SMA male connectors from the antenna cables to the corresponding antenna ports on your 4G/5G cellular router or gateway. Most 4x4 MIMO routers will have four antenna ports. Ensure a secure connection for each cable.



Image: An illustration demonstrating the connection of the antenna cables to the back of a 5G cellular gateway, showing the four SMA connectors.

- After connecting, power on or reboot your router/gateway.
- Some gateways may require U.FL Pigtail Adapters for connection (check your router's manual; these are often included with complete antenna kits).
- Monitor your router's signal strength indicator or administrative interface to verify improved signal.

5. OPERATION

Once installed and connected, the Waveform QuadPro Antenna operates passively to enhance your cellular signal. Its directional design means that aiming the antenna towards the nearest cellular tower is crucial for maximizing performance.

COMPATIBILITY

Your 5G Router's Best Friend



T Mobile



verizon ✓



peplink



cradlepoint



GL·iNet



NETGEAR
inseego
cudy

Works with almost every 5G gateway, modem, & router. Detailed guides provided. Devices without antenna ports may require light disassembly for connection.

Image: A graphic illustrating the concept of aiming the antenna to achieve optimal 5G performance by directing it towards a cellular tower.

- **Aiming:** Small adjustments to the antenna's direction can significantly impact signal strength and data rates. Make minor adjustments and re-check your router's signal metrics.
- **Environmental Factors:** Weather conditions (e.g., heavy rain, snow) can temporarily affect signal quality.

6. MAINTENANCE

The Waveform QuadPro Antenna is designed for outdoor use and requires minimal maintenance.

- **Cleaning:** Periodically inspect the antenna for dirt, dust, or debris accumulation. Clean the exterior with a soft, damp cloth. Avoid abrasive cleaners or solvents.
- **Cable Inspection:** Annually inspect the cables and connectors for any signs of wear, damage, or degradation of the weatherproofing boots. Replace if necessary.
- **Mounting Security:** Ensure the mounting hardware remains secure, especially after severe weather conditions. Tighten any loose bolts or screws.

7. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
No signal improvement	Incorrect antenna aiming	Adjust antenna direction in small increments towards the cellular tower.
No signal improvement	Loose or incorrect cable connections	Ensure all SMA connectors are securely fastened to the router/gateway. Verify correct port usage.
No signal improvement	Router/Gateway not configured for external antennas	Consult your router's manual to ensure it is set to use external antennas, if applicable. Reboot the router.
Intermittent signal	Environmental interference (e.g., storms)	This may be temporary. If persistent, re-check aiming and connections.
Physical damage to cable/connectors	Wear and tear, improper handling	Inspect cables and connectors. Replace damaged components if necessary.

8. COMPATIBILITY

The Waveform QuadPro Antenna is designed for broad compatibility with 4G and 5G cellular routers and gateways that feature external antenna ports. This includes devices from major carriers and third-party manufacturers.

KIT CONTENTS

Antenna Only



Quad Pro Antenna

- Weatherproofed SMA-M connectors
- Ultra-flexible 3 foot cable
- 600 to 6000 MHz
- 9.1 dBi peak gain
- 85% peak radiative efficiency

Flex Mount



Waveform User Manual



Image: A compatibility chart displaying various 5G routers and gateways from T-Mobile, AT&T, Verizon, Peplink, Cradlepoint, GL.iNet, Netgear, Inseego, and Cudy, indicating broad compatibility with the QuadPro antenna.

Compatible devices include, but are not limited to, routers/gateways from:

- T-Mobile
- Verizon
- AT&T
- Peplink
- Cradlepoint
- GL.iNet
- Netgear
- Inseego
- Cudy

Note: Devices without external antenna ports may require light disassembly or specific adapters (e.g., U.FL Pigtail)

Adapters) for connection. Refer to your device's manual for specific requirements.

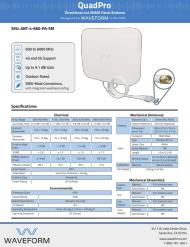
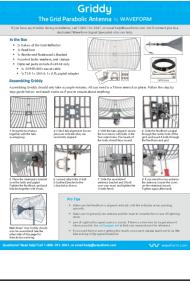
9. WARRANTY AND SUPPORT

Waveform products are designed for reliability and performance. For specific warranty details, please refer to the warranty card included with your product or visit the official Waveform website. For technical support, installation assistance, or troubleshooting beyond this manual, please contact Waveform customer service through their official channels. You can find more information and support resources on the [Waveform Store on Amazon](#) or their official website.

© 2024 Waveform. All rights reserved.

This manual is for informational purposes only. Specifications are subject to change without notice.

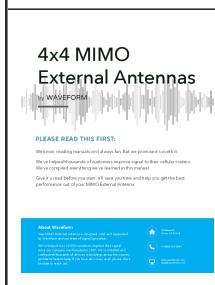
Related Documents - QuadPro Antenna

	<p>WAVEFORM QuadPro Directional 4x4 MIMO Panel Antenna and Accessories - Specifications</p> <p>Detailed specifications, dimensions, and technical data for WAVEFORM's QuadPro directional 4x4 MIMO panel antenna, along with related accessories including mounting brackets, cables, adapters, and mounts.</p>
	<p>Waveform QuadPro Duo Directional 8x8 MIMO Antenna Kit Installation Guide</p> <p>This guide provides comprehensive instructions for installing and optimizing the Waveform QuadPro Duo Directional 8x8 MIMO Antenna Kit to improve cellular signal and data speeds. It covers unboxing, setup, positioning, connection, mounting, weatherproofing, grounding, and advanced optimization techniques.</p>
	<p>Griddy Parabolic Antenna Installation and Setup Guide by Waveform</p> <p>Comprehensive guide to assembling, installing, and aiming the Waveform Griddy parabolic antenna for optimal cellular and WiFi signal performance. Includes feedhorn selection and MIMO setup.</p>
	<p>Waveform 4x4 MIMO External Antennas: Installation and Optimization Guide</p> <p>Step-by-step instructions from Waveform for installing 4x4 MIMO External Antennas to boost cellular signal. Covers setup, positioning, testing, and optimization for cellular routers and hotspots.</p>



[Waveform Griddy Parabolic Antenna: Assembly, Setup, and Aiming Guide](#)

Comprehensive guide to assembling, configuring, and aiming the Waveform Griddy parabolic antenna for optimal performance in cellular and Wi-Fi applications. Includes feedhorn selection, MIMO setup, and aiming tips.



[Waveform 4x4 MIMO External Antennas Installation Guide](#)

Comprehensive guide from Waveform on installing and optimizing 4x4 MIMO external antennas for improved cellular signal (4G LTE/5G). Covers setup, positioning, testing, and troubleshooting.