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› Waveform QuadPro 4x4 MIMO Signal Boosting Panel Antenna Kit User Manual

## Waveform QPRO-2U

# Waveform QuadPro 4x4 MIMO Signal Boosting Panel Antenna Kit User Manual

Model: QPRO-2U

## INTRODUCTION

The Waveform QuadPro 4x4 MIMO Signal Boosting Panel Antenna Kit is designed to enhance 4G and 5G cellular internet connectivity for routers and gateways. This kit provides improved data rates, greater reliability, and reduced latency by optimizing signal reception. It supports all 4G and 5G bands from 600 to 6000 MHz, making it compatible with major carriers like AT&T, Verizon, and T-Mobile. The directional design allows for precise aiming towards cellular towers to maximize performance.



The Waveform QuadPro 4x4 MIMO Panel Antenna Kit, designed to boost cellular internet signals.

## PACKAGE CONTENTS

Verify that all components are present in your Waveform QuadPro kit:

- QuadPro 4x4 MIMO Panel Antenna
- FlexMount (Mounting Bracket)
- Window Entry Cable
- UltraFlex-Quad Cable (20 ft)
- 4x U.FL Adapters
- Weatherproofing Boots
- User Manual (this document)

## KIT CONTENTS

# QuadPro Complete Kit

### Quad Pro Antenna

Weatherproofed SMA-M  
3 ft pigtails, 600 to 6000 MHz



Window Entry  
Cable



20 ft UltraFlex  
Quad Cable



4x U.FL Adapters

### Flex Mount



Waveform User  
Manual

All components included in the Waveform QuadPro Complete Kit.

## SETUP AND INSTALLATION

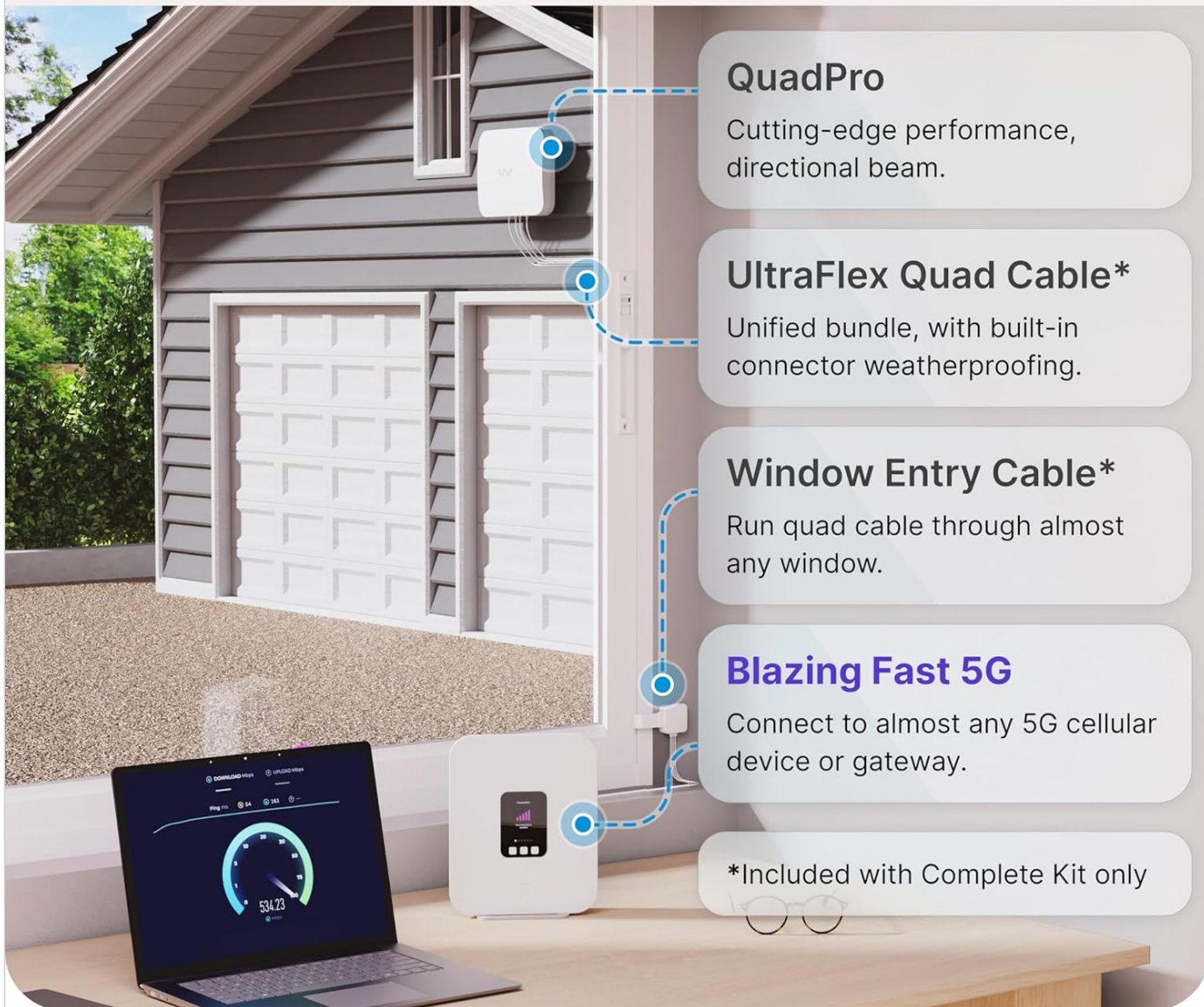
Follow these steps for proper installation of your QuadPro antenna. Detailed guides for specific gateways are available on the Waveform website.

### 1. Mounting the Antenna

The QuadPro antenna can be mounted on a wall or a pole. Choose a location with a clear line of sight towards your nearest cellular tower for optimal performance. Ensure the mounting surface is sturdy and can support the antenna securely.

**SLOW 4G OR 5G?**

# Turbocharge Your Cellular Internet



## QuadPro

Cutting-edge performance, directional beam.

## UltraFlex Quad Cable\*

Unified bundle, with built-in connector weatherproofing.

## Window Entry Cable\*

Run quad cable through almost any window.

## Blazing Fast 5G

Connect to almost any 5G cellular device or gateway.

\*Included with Complete Kit only

The QuadPro antenna installed on a wall using the provided FlexMount.

## SETUP

# Simple DIY Install

QuadPro is simple enough to be installed by anyone with DIY experience. The Complete Kit version includes a Window Entry Cable to make routing cables painless.



The QuadPro antenna installed on a pole for elevated signal reception.

## 2. Running Cables Inside

Use the included Window Entry Cable to route the UltraFlex-Quad cable into your home without drilling holes. This cable is designed to pass through window frames or door gaps. Connect the UltraFlex-Quad cable to the antenna and then to the Window Entry Cable, ensuring all connections are tight and weatherproofed with the provided boots.

## 2. Run Cables Inside

Skip the hassle of drilling holes by using our **Window Entry Cable** to route your cable through almost any window.

Extend your cables to the perfect length using our modular **UltraFlex-Quad** Cables.

*(Only included with Complete Kit)*



- 01 Mount Antenna
- 02 Run Cable
- 03 Connect Gateway

The Window Entry Cable allows for cable routing without drilling, passing through a window frame.

## 3. Connecting to Your Gateway

Connect the UltraFlex-Quad cable to your 5G router, modem, or gateway. The kit includes SMA and U.FL adapters for compatibility with various devices. Some gateways may require light disassembly to access internal antenna ports for connection. Refer to your gateway's specific instructions or Waveform's detailed guides for proper connection order and adapter usage. After connecting, reboot your gateway.

## 3. Connect Your 5G Gateway

Connect your 5G gateway or router, reboot, and enjoy blazing fast internet!

Some gateways may need light modifications using **U.FL Pigtail Adapters** included with the Complete Kit.



- 01 Mount Antenna
- 02 Run Cable
- 03 Connect Gateway

Cables from the QuadPro antenna connected to a 5G gateway.

## Unboxing Video

This video provides a visual guide to unboxing the Waveform QuadPro 4x4 MIMO Panel Antenna, showcasing the components and initial setup steps.

## OPERATION AND AIMING

The QuadPro is a directional antenna, meaning its performance is highly dependent on its orientation. Proper aiming towards your nearest cellular tower is crucial for achieving the best possible signal strength and data speeds.

## Aiming the Antenna

1. **Identify Tower Location:** Use online resources like CellMapper or your carrier's app (e.g., T-Mobile Internet app's placement assistant) to locate the nearest cellular tower(s) in your area.
2. **Initial Alignment:** Mount the antenna and perform an initial alignment towards the identified tower.
3. **Fine-Tuning:** Connect your gateway and monitor signal metrics (RSRP, SINR, RSRQ) through your gateway's administration page or a dedicated app. Slowly adjust the antenna's horizontal and vertical angles in small increments (e.g., 1/4 inch turns). After each adjustment, refresh your signal metrics and perform a speed test.
4. **Optimize Signal Metrics:** Focus on maximizing SINR (Signal to Interference Noise Ratio) and achieving the highest RSRP (Reference Signal Received Power) closest to 0 dBm. A higher SINR indicates a clearer signal, which is critical for faster speeds.
5. **Secure Position:** Once optimal signal metrics and speeds are achieved, securely tighten all mounting hardware to prevent movement due to wind or other environmental factors.

# Aim For More

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



Illustration of the directional nature of the QuadPro antenna and the importance of aiming towards a cellular tower.

## MAINTENANCE

The Waveform QuadPro antenna is designed for outdoor use and is weather-resistant. To ensure long-term performance:

- **Periodic Inspection:** Annually inspect the antenna, mounting hardware, and cables for any signs of wear, corrosion, or damage.
  - **Cable Integrity:** Ensure all cable connections remain tight and that weatherproofing boots are securely in place to prevent moisture ingress.
  - **Clear Line of Sight:** Trim any new foliage or obstructions that may grow into the antenna's line of sight to the cellular tower.
  - **Cleaning:** If necessary, gently clean the antenna surface with a soft, damp cloth to remove dirt or debris. Avoid abrasive cleaners.
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## TROUBLESHOOTING

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

- **Low or Inconsistent Signal:** Re-evaluate antenna aiming. Even small adjustments can significantly impact signal quality. Verify that there are no new obstructions (trees, buildings) blocking the line of sight to the tower.
  - **No Connection:** Double-check all cable connections, especially the small U.FL pigtails inside the gateway. Ensure they are firmly seated. Confirm that your gateway is powered on and configured correctly to use external antennas.
  - **Slow Speeds:** While aiming, prioritize SINR over raw RSRP. A clear signal (high SINR) often leads to better speeds than just a strong signal (high RSRP) with interference. Experiment with slight changes in antenna height or angle.
  - **Gateway Disassembly Concerns:** If your gateway requires disassembly, proceed with caution. The internal connectors are delicate. If uncomfortable, seek professional assistance or consult Waveform's detailed guides for your specific gateway model.
  - **Weatherproofing:** Ensure all outdoor connections are properly sealed with weatherproofing boots to prevent water damage, which can degrade signal over time.
  - **Carrier Network Issues:** Confirm there are no local network outages or congestion issues with your cellular provider.
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## COMPATIBILITY

The Waveform QuadPro 4x4 MIMO Panel Antenna Kit is designed for broad compatibility with various 4G/5G routers, modems, and gateways. It supports all major US carriers and a wide range of hardware manufacturers.

- **Carriers:** T-Mobile Home Internet, Verizon 5G Home Internet, AT&T Internet Air, and US Cellular.
- **Router/Gateway Brands:** NETGEAR, PEPLINK, CRADLEPOINT, MOFI, GL.iNET, Inseego, Cudy, and more.
- **Gateway Models:** Includes detailed guides for connecting to TMHI gateways such as G4AR/G4SE, Nokia 5G21, Arcadyan KVD21, and Sercomm Fast 56WW Gateways.

Devices without external antenna ports may require light disassembly to connect the included U.FL adapters.

## COMPATIBILITY

# Your 5G Router's Best Friend



**T Mobile**



 **AT&T**



**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.

Visual representation of compatible 5G routers and gateways.

## TECHNICAL SPECIFICATIONS

Feature	Specification
Brand	Waveform
Model Number	QPRO-2U
Antenna Type	4x4 MIMO Panel Antenna
Frequency Range	600 to 6000 MHz

Feature	Specification
Gain	Up to 9.1 dBi
Impedance	50 Ohms
Number of Channels	4
Color	White
Item Weight	2.28 Kilograms

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## WARRANTY AND SUPPORT

The Waveform QuadPro 4x4 MIMO Signal Boosting Panel Antenna Kit comes with a **3-Year Manufacturer Warranty**.

This warranty covers defects in materials and workmanship under normal use.

For technical assistance, installation guidance, or warranty claims, please contact Waveform customer support. Refer to the contact information provided on the Waveform website or in your product packaging.

