

Waveform DMIN-ANT

Waveform DualMini 2x2 MIMO Window Antenna Instruction Manual

Model: DMIN-ANT

INTRODUCTION

The Waveform DualMini 2x2 MIMO Window Antenna is designed to enhance 4G and 5G cellular internet performance for compatible routers and hotspots. This omnidirectional antenna offers improved data rates, lower latencies, and greater reliability by optimizing cellular signal reception. Its low-profile and lightweight design allows for flexible installation in various environments, including homes and RVs.

This manual provides essential information for the proper setup, operation, maintenance, and troubleshooting of your DualMini antenna.



Image: The Waveform DualMini antenna, a white rectangular device with two coaxial cables, shown next to its instruction manual.

SETUP AND INSTALLATION

Proper installation of the DualMini antenna is crucial for optimal performance. The antenna is designed for flexibility, supporting both indoor and outdoor placements.

1. Mounting Options

The DualMini offers multiple mounting solutions to suit your specific needs and location where the signal is strongest.

- **Window Suction Cups:** For easy attachment to windows, ideal for temporary or indoor use.
- **Pole Mount Adapter:** Allows mounting on a pole for elevated outdoor placement.
- **Desktop Stand:** Provides a stable base for placement on flat surfaces indoors.
- **Direct Wall Mounting:** For permanent installation on a wall.

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

M Marion H. Verified Buyer 07/20/22
★★★★★
Once was a skeptic.

	Before Waveform Antenna	After Waveform Antenna
Download Speed	55 Mbps	430 Mbps
Upload Speed	8 Mbps	35 Mbps

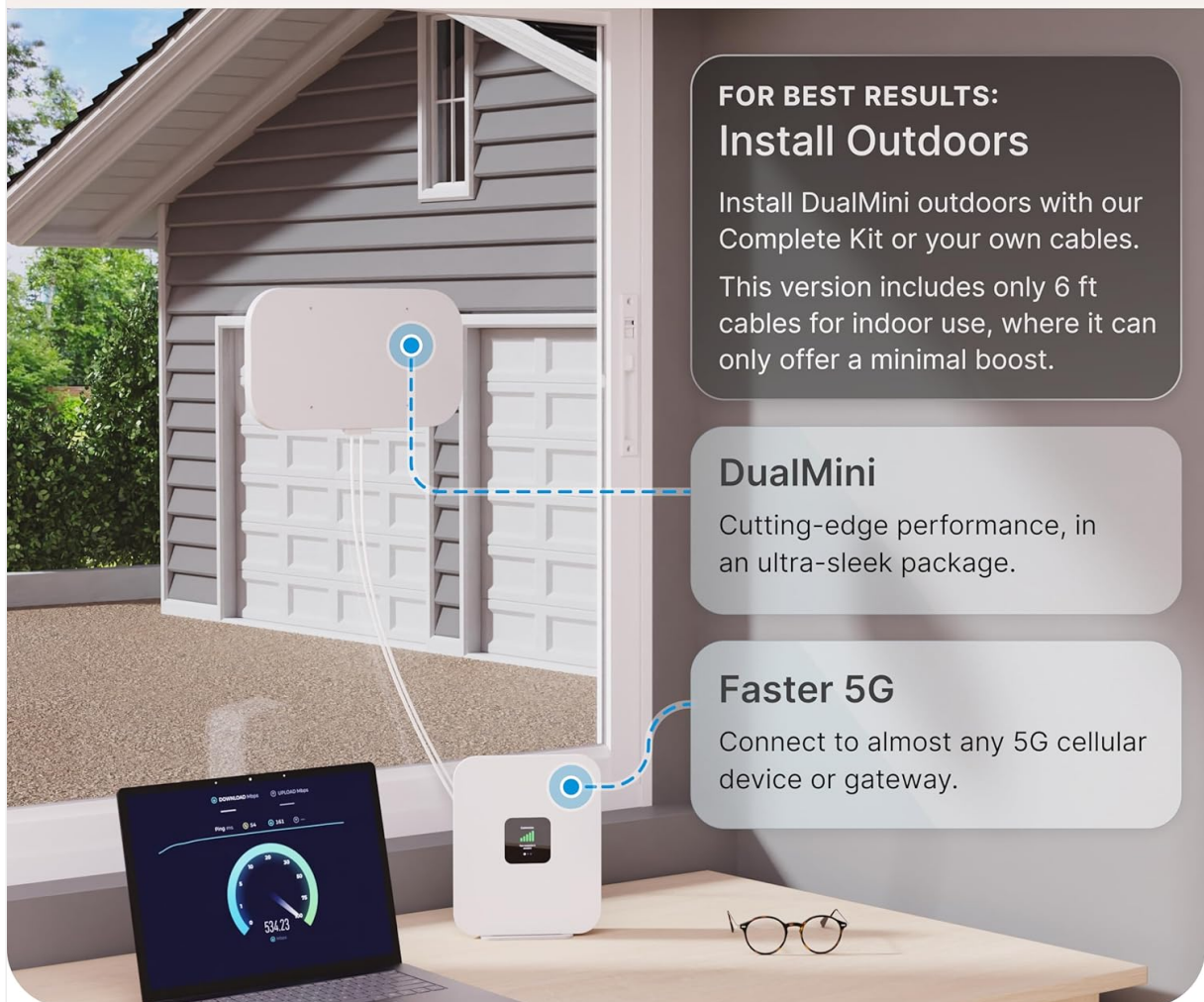
D David E. Verified Buyer 06/06/22
★★★★★
Big improvement.

	Before Waveform Antenna	After Waveform Panel
Download Speed	4 Mbps	80 Mbps
Upload Speed	1 Mbps	20 Mbps

Image: Illustration of the DualMini antenna mounted in various configurations, including on a wall, a pole, a window with suction cups, and on a desktop stand.

For best results, outdoor installation is recommended as it generally provides superior signal reception. Identify the side of your house or RV that receives the strongest cellular signal for optimal placement.

SLOW 4G OR 5G? Turbocharge Your Cellular Internet



**FOR BEST RESULTS:
Install Outdoors**

Install DualMini outdoors with our Complete Kit or your own cables. This version includes only 6 ft cables for indoor use, where it can only offer a minimal boost.

DualMini

Cutting-edge performance, in an ultra-sleek package.

Faster 5G

Connect to almost any 5G cellular device or gateway.

Image: A visual representation of an outdoor antenna installation, demonstrating how it connects to a cellular router inside a building to enhance internet speed.

2. Cable Routing (Antenna Only Kit)

This "Antenna Only" kit requires you to supply your own coaxial cables and antenna mount. Ensure the cables are of appropriate length and quality for your installation. If you purchased a Complete Kit, it includes a Window Entry Cable and UltraFlex Twin cables for easier routing without drilling.



Image: A diagram showing how a flat Window Entry Cable allows coaxial cables to pass through a window frame, facilitating outdoor antenna placement while keeping the router indoors.

3. Connecting to Your Router or Gateway

Connect the two coaxial cables from the DualMini antenna to the external antenna ports on your 4G LTE or 5G gateway/router. Most devices have two ports for MIMO (Multiple-Input, Multiple-Output) functionality. Some gateways may require TS9 adapters, which are typically included with Complete Kits.



Image: A cellular gateway with two coaxial cables connected to its external antenna ports, demonstrating the final connection step.

After connecting, reboot your router or gateway to ensure it recognizes the external antenna. Monitor your device's signal strength and internet speed to confirm improved performance.

Compatibility

The DualMini antenna is compatible with a wide range of 4G LTE and 5G gateways, modems, and routers that feature external antenna ports. This includes devices from brands like Inseego, Netgear (M5, M6 series), Peplink, Cradlepoint, GL.iNet, Cudy, TP-Link, and Teltonika. It supports major carriers such as Verizon, T-Mobile, AT&T, Rogers, Telus, and Bell.

COMPATIBILITY

Your 5G Router's Best Friend



inseeGO



NETGEAR



peplink



cradlepoint



GL.iNet



cudy



TELTONIKA

verizon

T-Mobile



ROGERS

TELUS

Bell

Works with almost every 4G LTE 5G gateway, modem, & router. Detailed guides available. Devices with TS9 ports use optional adapters.

Image: A collage of logos representing various compatible 5G routers and cellular service providers, indicating broad compatibility for the DualMini antenna.

OPERATING THE DUALMINI ANTENNA

The Waveform DualMini is an omnidirectional antenna, meaning it receives signals from all directions. This eliminates the need for precise aiming towards a cell tower, simplifying installation and operation.

Once installed and connected, the antenna passively enhances the cellular signal received by your router or hotspot. Its 2x2 MIMO design utilizes multiple signal paths to improve data throughput and connection stability. The antenna operates across a broad frequency range of 600 to 6000 MHz, supporting various 4G and 5G bands.

For optimal performance, ensure the antenna is placed in a location with the strongest available signal, typically outdoors and with minimal obstructions.

MAINTENANCE

The Waveform DualMini antenna is designed for durability and requires minimal maintenance.

- **Cleaning:** Periodically wipe the antenna's exterior with a soft, damp cloth to remove dust or dirt. Avoid using harsh chemicals or abrasive cleaners.

- **Cable Inspection:** Regularly check coaxial cables for any signs of wear, damage, or loose connections, especially if installed outdoors. Ensure all connections are secure and weatherproofed if exposed to elements.
- **Mounting Security:** Verify that the antenna's mounting hardware remains secure, particularly after severe weather conditions.

No internal user-serviceable parts are present. Do not attempt to open the antenna housing.

TROUBLESHOOTING

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

- **Poor Signal/Slow Speeds:**
 - **Relocate Antenna:** Experiment with different antenna placements. Even small changes in location (e.g., a few feet higher, or on a different side of the building) can significantly impact signal strength.
 - **Check Connections:** Ensure all coaxial cables are securely connected to both the antenna and your router/gateway.
 - **Reboot Router:** Power cycle your cellular router or hotspot.
 - **Obstructions:** Minimize obstructions between the antenna and the nearest cell tower. Trees, buildings, and dense materials can degrade signal.
 - **Cable Quality:** Ensure you are using high-quality coaxial cables, especially for longer runs, to minimize signal loss.
- **Antenna Not Recognized by Router:**
 - **Verify Compatibility:** Confirm your router/gateway has external antenna ports and is compatible with passive external antennas.
 - **Check Adapters:** If using TS9 adapters, ensure they are correctly seated and functional.
 - **Router Settings:** Some routers may require a setting change to utilize external antennas. Consult your router's manual.
- **Intermittent Connection:**
 - **Secure Cables:** Ensure cables are not loose or damaged, which can cause intermittent signal.
 - **Environmental Factors:** Heavy rain or snow can temporarily affect cellular signals.

If issues persist after attempting these steps, contact Waveform customer support for further assistance.

SPECIFICATIONS

Feature	Specification
Model Number	DMIN-ANT
Antenna Type	2x2 MIMO Omnidirectional Panel Antenna
Frequency Range	600 - 6000 MHz
Peak Gain	Up to 5.2 dBi
Peak Radiative Efficiency	85%
Connectors	Weatherproofed SMA-M

Feature	Specification
Cable Length (Integrated)	6 feet (Ultra-flexible)
Color	White
Item Weight	3.29 pounds
Package Dimensions	14.25 x 8.5 x 4.3 inches
Manufacturer	Waveform
UPC	199284950788

KIT CONTENTS


Antenna Only



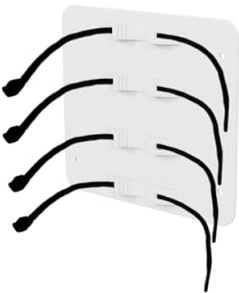
DualMini Antenna

- Weatherproofed SMA-M connectors
- Ultra-flexible 6 foot cable
- 600 to 6000 MHz
- 5.2 dBi peak gain
- 85% peak radiative efficiency


Desktop Stand




Pole Mount Bracket with Zip Ties



Suction Cups Screws Wall Anchors





User Manual

Image: A visual breakdown of the components included in the "Antenna Only" kit, detailing the DualMini antenna and its various mounting accessories.

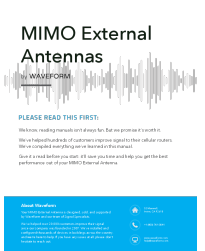
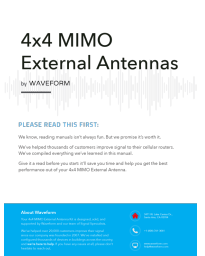
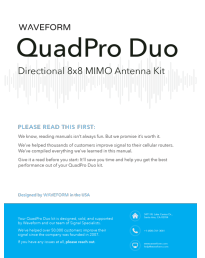

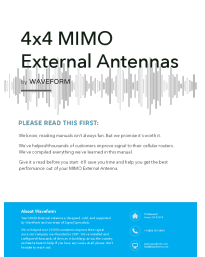
WARRANTY AND SUPPORT

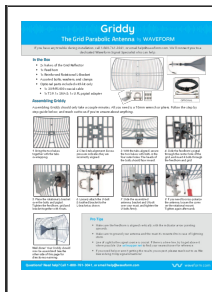
For specific warranty information regarding your Waveform DualMini antenna, please refer to the documentation included with your purchase or visit the official Waveform website.

Waveform is known for its responsive customer support. If you require assistance with installation,

Contact information can typically be found on the Waveform website or in the product packaging.

Related Documents - DMIN-ANT

 <p>MIMO External Antennas by WAVEFORM</p> <p>PLEASE READ THIS FIRST:</p> <p>We know reading manuals isn't always fun, but we promise it's worth it. We've helped thousands of customers improve signal to their cellular routers. We've completed everything you've feared in the manual.</p> <p>Give it a read before you start. It'll save you time and help you get the best performance out of your MIMO External Antenna.</p> <p>Read Manuals:</p> <ul style="list-style-type: none">1. Read the manual for your antenna.2. Read the manual for your router.3. Read the manual for your modem.4. Read the manual for your power supply.5. Read the manual for your antenna.	<p>Waveform MIMO External Antennas: Installation and Optimization Guide</p> <p>Comprehensive guide to installing, positioning, and optimizing Waveform MIMO External Antennas for improved cellular signal and data rates. Covers setup, compatibility, and troubleshooting.</p>
 <p>4x4 MIMO External Antennas by WAVEFORM</p> <p>PLEASE READ THIS FIRST:</p> <p>We know reading manuals isn't always fun, but we promise it's worth it. We've helped thousands of customers improve signal to their cellular routers. We've completed everything you've feared in the manual.</p> <p>Give it a read before you start. It'll save you time and help you get the best performance out of your 4x4 MIMO External Antenna.</p> <p>Read Manuals:</p> <ul style="list-style-type: none">1. Read the manual for your antenna.2. Read the manual for your router.3. Read the manual for your modem.4. Read the manual for your power supply.5. Read the manual for your antenna.	<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>
 <p>QuadPro Duo Directional 8x8 MIMO Antenna Kit by WAVEFORM</p> <p>PLEASE READ THIS FIRST:</p> <p>We know reading manuals isn't always fun, but we promise it's worth it. We've helped thousands of customers improve signal to their cellular routers. We've completed everything you've feared in the manual.</p> <p>Give it a read before you start. It'll save you time and help you get the best performance out of your QuadPro Duo.</p> <p>Read Manuals:</p> <ul style="list-style-type: none">1. Read the manual for your antenna.2. Read the manual for your router.3. Read the manual for your modem.4. Read the manual for your power supply.5. Read the manual for your antenna.	<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 The Grid Parabolic Antenna by WAVEFORM</p> <p>PLEASE READ THIS FIRST:</p> <p>We know reading manuals isn't always fun, but we promise it's worth it. We've helped thousands of customers improve signal to their cellular routers. We've completed everything you've feared in the manual.</p> <p>Give it a read before you start. It'll save you time and help you get the best performance out of your Griddy.</p> <p>Read Manuals:</p> <ul style="list-style-type: none">1. Read the manual for your antenna.2. Read the manual for your router.3. Read the manual for your modem.4. Read the manual for your power supply.5. Read the manual for your antenna.	<p>Waveform Griddy Parabolic Antenna: Assembly, Setup, and Aiming Guide</p> <p>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.</p>
 <p>4x4 MIMO External Antennas by WAVEFORM</p> <p>PLEASE READ THIS FIRST:</p> <p>We know reading manuals isn't always fun, but we promise it's worth it. We've helped thousands of customers improve signal to their cellular routers. We've completed everything you've feared in the manual.</p> <p>Give it a read before you start. It'll save you time and help you get the best performance out of your 4x4 MIMO External Antenna.</p> <p>Read Manuals:</p> <ul style="list-style-type: none">1. Read the manual for your antenna.2. Read the manual for your router.3. Read the manual for your modem.4. Read the manual for your power supply.5. Read the manual for your antenna.	<p>Waveform 4x4 MIMO External Antennas Installation Guide</p> <p>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.</p>



[Griddy Parabolic Antenna Installation and Setup Guide by Waveform](#)

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.