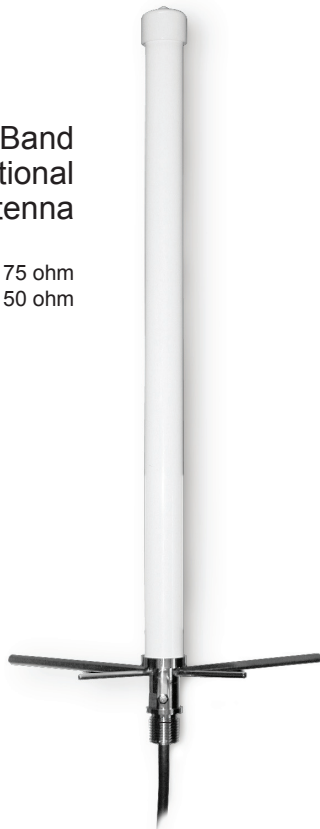


# Antenna Installation Guide

## Multi-Band Omni-Directional Antenna

PART# 301201 - 75 ohm  
PART# 301202 - 50 ohm



### Features:

- High-gain
- Weather resistant
- Built-in ground plane
- Slim and unobtrusive
- Mounting bracket included
- Installs Easily
- For fixed installations

## How It Works

Wilson Electronics Dual-Band Omni-Directional Antenna will collect the cell tower signal and send it through the cable to a Signal Booster or directly to the cell phone or cellular data card. When the cell phone or cellular data card transmits, the signal is transferred to a Signal Booster or directly to the antenna and transmitted back to the cell tower.

## Thank you for purchasing a Wilson Electronics Antenna

Please read all instructions before installing your antenna, and check the parts supplied against those listed in this guide. Wilson Electronics weatherproof, fiberglass-encased antenna is omni-directional and ideal for many exterior building locations, such as homes, offices, stores and warehouses.

Our innovative design results in high efficiency and low signal loss, which means more signal to your cell phone or cellular data card. This multi-band, high-performance, omni-directional antenna supports multiple frequencies (Specifications are on the back page). It is backed by Wilson Electronics 30-day money-back guarantee and 1-year limited warranty.

## Package Contents

|   |                                |
|---|--------------------------------|
| 1 – Multi-Band Omni-Directional Antenna   | 6 – Radials (3 short, 3 long)  |
| 1 – L-Bracket   | 4 – 10x1 Phillips round screws |
| 1 – U-bolt assembly   | 1 – Thread-locker liquid       |
| 1 – N Female - FME Male Connector (2F1108)<br>(Provided only with 301202 Antenna) |                                |

## Antenna Adapter

An 18-inch external adapter is required to connect the cell phone or cellular data card directly to the antenna. The external adapter is cell phone/data card specific and may be purchased through a local retailer. Refer to Wilson Electronics Adapter Guide to identify the right adapter for your cell phone or cellular data card. The Adapter Guide is available through a local retailer. It is also available on our website, [www.WilsonElectronics.com](http://www.WilsonElectronics.com), or you may call Technical Support at 866-294-1660.

## Determine Your Mounting Location

The antenna should be mounted high on the building with no obstructions. There is a compromise between installing the antenna as high as possible and keeping the cable run short to reduce signal loss. (The longer your cable, the greater the signal loss will be.) For cable runs under 20 feet (recommended), Wilson Electronics offers various RG-58 cable lengths and connectors (sold separately). If a cable length greater than 20 feet is needed, we recommend increasing the cable size to Wilson 400 cable to minimize signal loss.

Make sure your mounting location is as far away as possible from other antennas and upright objects such as flagpoles. Be careful not to kink or crush the antenna cable or bend it tightly during installation. This can lead to poor performance and signal loss. It is important to mount the antenna vertically; mounting horizontally or at an angle will significantly degrade performance.

## Mount the Antenna

Apply a small amount of thread-locker liquid to the threads on each of the six radials and screw them into the holes at the base of the antenna. Attach the supplied L-bracket to a sturdy vertical surface using four screws. It may also be attached to a pole with the supplied U-bolt assembly (Figure 1). Remove the hex-nut and lock-washer from the base of the antenna, thread the antenna cable through the large hole in the L-bracket, slip the lock washer and hex-nut over the end of the cable and tighten against the underside of the L-bracket to hold the antenna securely (Figure 2).

Figure 1

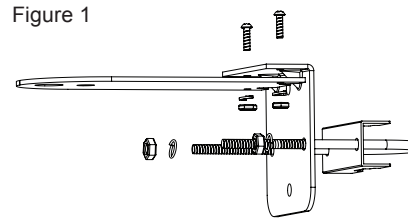
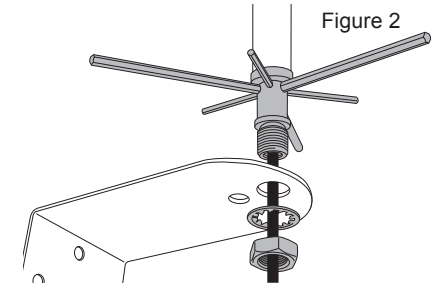


Figure 2



## Connect the Cable

Connect the extension cable (sold separately) to the antenna cable, route the extension cable to the Signal Booster location, and connect the extension cable to the Signal Booster. (See the instructions that came with your Signal Booster for power-up procedure.)

If you are connecting the antenna directly to a cell phone or data card, connect the cable to the appropriate adapter (sold separately) and attach the adapter to your phone or data card.

## Recommended: Lightning Surge Protection (sold separately)

Install the Lightning Surge Protector (LSP) close to the Signal Booster (sold separately). Attach the cable from the Outside Antenna to the surge protector. Ensure the LSP is properly grounded. (For RG6 cable use #859988-75 Ohm, for 50 Ohm use #859902). May be purchased at <https://cellphonesignalbooster.us> or by calling 800-501-3153.

## Technical Support

For expert assistance with your installation, call Wilson Electronics Technical Support Department toll-free at 800-501-3153. Representatives are available to assist you between 7:00 a.m. and 6:00 p.m. (MST) Monday through Friday. You may also visit the Technical Support section of our website: <https://cellphonesignalbooster.us>

**⚠ RF Safety Warning:** The Outside Antenna must be installed with a separation of at least 16 inches from any persons and must not be located or operating in conjunction with any other antenna or Signal Booster.

Disclaimer: The information provided by Wilson Electronics, Inc. is believed to be complete and accurate. However, no responsibility is assumed by Wilson Electronics, Inc. for any business or personal losses arising from its use, or for any infringements of patents or other rights of third parties that may result from its use.

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### 30-Day Money-Back Guarantee

All Wilson Electronics products are protected by Wilson Electronics 30-day money-back guarantee. If for any reason the performance of any product is not acceptable, simply return the product directly to the reseller with a dated proof of purchase.

### 90-Day Warranty

Wilson Electronics antennas are warranted for ninety (90) days against defects in workmanship and/or materials. Warranty cases may be resolved by returning the product directly to the reseller with a dated proof of purchase.

Antennas may also be returned directly to the manufacturer at the consumer's expense, with a dated proof of purchase and a Returned Material Authorization (RMA) number supplied by Wilson Electronics. Wilson Electronics shall, at its option, either repair or replace the product. Wilson Electronics will pay for delivery of the repaired or replaced product back to the original consumer if located within the continental U.S.

This warranty does not apply to any antennas determined by Wilson Electronics to have been subjected to misuse, abuse, neglect, or mishandling that alters or damages physical or electronic properties.

RMA numbers may be obtained by phoning Technical Support at 800-501-3153.

## Antenna Specifications

| Part Number     | 301201  | 301202     |
|-----------------|---|------------|
| Frequency Range | 700-800 MHz / 824-894 MHz / 880-960 MHz / 1850-1990 MHz                             |            |
| Impedance       | 75 ohms   | 50 ohms    |
| Antenna Gain    | 3.2 dBi 700-800 MHz / 4.1 dBi 824-894 MHz / 2.7 dBi 880-960 / 5.1 dBi 1850-1990 MHz |            |
| Radiation       | Omni  |            |
| Polarization    | Vertical  |            |
| Ground Plane    | Built-in  |            |
| Connector       | F-Female  | FME Female |
| Material        | Whip - Stainless Steel / Casing - Fiberglass  |            |
| Height          | 18 inches / 45.7 cm   |            |



For additional Technical Support visit <https://cellphonesignalbooster.us>  
or email at: [sales@cellphonesignalbooster.us](mailto:sales@cellphonesignalbooster.us)