

# Antenna Installation Guide

Dual-Band  
NMO Mount  
Antenna

PART# 301104



## Features:

- Vehicle use
- Easy to install
- Permanent installation
- Requires antenna adapter (sold separately)
- Compatible with Wilson amplifiers (optional)

### **30-Day Money-Back Guarantee**

All Wilson Electronics products are protected by Wilson's 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 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.

This warranty does not apply to any amplifiers 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 866-294-1660.

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**1****How They Work**

Wilson's Dual-Band NMO Mount antenna will collect the cell tower signal and send it through the cable to an amplifier or directly to the cell phone or cellular data card. When the cell phone or cellular data card transmits, the signal is transferred to an amplifier or directly to the antenna and broadcast back to the cell tower. See the back cover for information on Wilson amplifiers.

**2****Antenna Adapter**

An 18-inch external adapter is required to connect the cell phone or cellular data card to the antenna. The external adapter is cell phone/data card-specific and may be purchased through a local retailer. Refer to Wilson's 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 web site, [www.wilsonelectronics.com](http://www.wilsonelectronics.com), or you may call Technical Support at 866-294-1660.

**3****Installing the NMO**

Select a location for mounting the antenna. The best location would be centered on the roof, although other locations are acceptable

**4**

Drill a hole in the selected location. Hole size will depend on the size of the NMO mount purchased.

**5**

Route the cable between the hole and the location of the amplifier, cell phone or data card.

**6**

Place the NMO mount up through the bottom of the hole. Place the threaded nut on top of the mount, outside of the vehicle, and tighten.

**7**

Screw the antenna coil into place on top of the vehicle.

**8**

Screw the FME connectors together between the antenna mount cable and the antenna adapter. Connect the adapter to the cell phone or data card.

## Antenna Specifications

Part Number	301104
Frequency Range	806-894 MHz / 1850-1990 MHz
Impedance	50 ohms
Antenna Gain	4.9 dBi 806-894 MHz / 5.9 dBi 1850-1990 MHz
Radiation	Omni
Polarization	Vertical
Wavelength	1.0 Wavelength 806-894 MHz / 2.1 Wavelength 1850-1990 MHz
Ground Plane	Metal ground plane required
Connector	FME-Female
Material	Whip - Stainless Steel
Height	13.88 inches / 35.3 cm
Mount	<p><b>NMO Mount Types</b> (sold separately)</p> <p>Trunk Mount (14' RG-58 Coax) Part# 901101</p> <p>3/8" Hole - Roof Mount (14' RG-58 Coax) Part# 901103</p> <p>3/4" Hole - Roof Mount (14' RG-58 Coax) Part# 901102</p>

## Wilson Amplifiers Boost Coverage Even More

A Wilson Electronics amplifier (sold separately), when used in conjunction with your antenna, can improve your cell phone and laptop data card coverage area up to 50 miles. Wilson manufactures a wide range of wireless and direct-connection amplifiers for mobile or in-building use. See your dealer for details or visit [www.wilsonelectronics.com](http://www.wilsonelectronics.com).



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For additional Technical Support visit

[www.wilsonelectronics.com](http://www.wilsonelectronics.com)

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