

# GPS Re-radiating Antenna Kit

## MODEL: RA-50

Connector-free antenna solution for handheld GPS receivers/  
with up to 2-meter re-radiating range!



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The RA-50 is a complete GPS L1 band signal re-radiating unit with dual antennas to re-transmit real-time GPS satellite outdoor receptions to an indoor environment. The re-radiating internal antenna allows multi GPS receiver users to perform On-The-Fly normal receiver performance within a closed environment, while the main GPS antenna is located on an Un-Manned outdoor location.

### System Description:

The system kits are designed to operate as whole, it includes a high gain external GPS antenna, precisely calibrated amplifier circuit with Helix type indoor antenna and a power supply regulator built-in.

### Applications/Coverage:

The re-radiating indoor antenna can support any type of GPS receivers that use the L1 band 1575.42MHz frequency. It can provide good signal reception to a distance of 1 ~ 1.5 meters, depending on indoor noise environment. The internal antenna can be used and located in the following to provide good GPS reception environment:

<b><u>Vehicle</u></b>	<b><u>Bus</u></b>	<b><u>Trains</u></b>	<b><u>Ships</u></b>	<b><u>Aircraft</u></b>
<b><u>Multi-receivers</u></b>	<b><u>Laboratory</u></b>	<b><u>Sailing Boats</u></b>	<b><u>Rovers</u></b>	<b><u>Office</u></b>

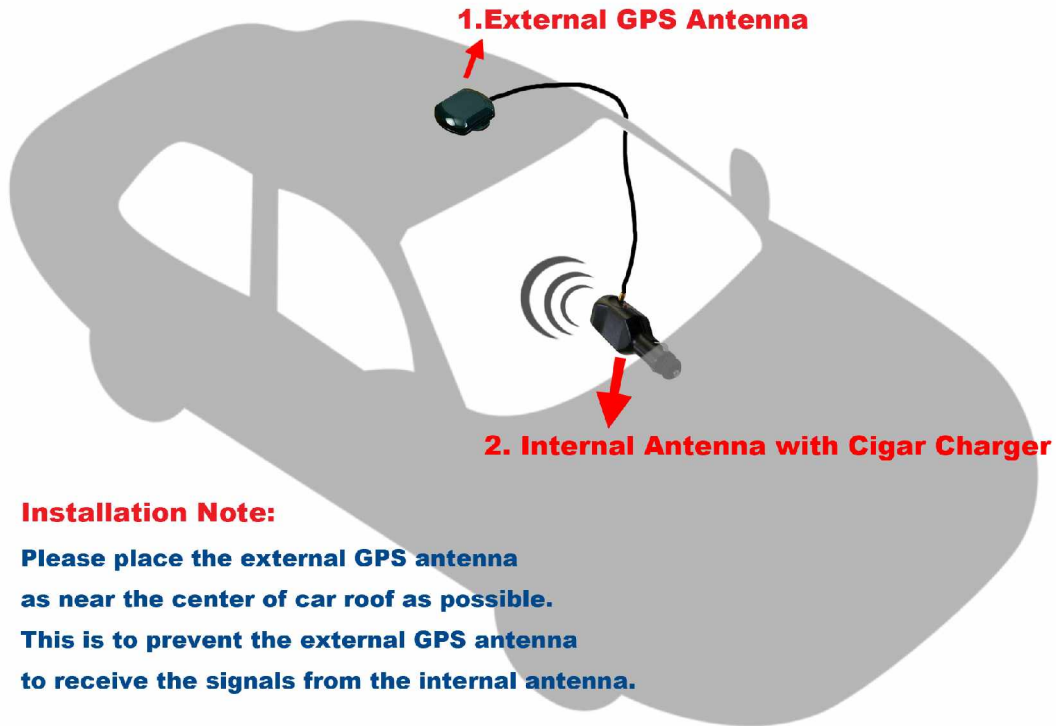
### Re-radiating Antenna Specifications:

External antenna type:	Active patch antenna with SMA plug
Frequency:	1575.42MHz (L1 band)
Internal antenna type:	Active patch antenna
Frequency:	1575.42MHz (L1 band)
Supply Voltage:	DC adapter supply 12V DC
Current consumption:	30mA

### Installation Note

If the device is used with our MA-76, please make sure that they are not interfered with their own signals. For instance, if you install the two devices for vehicle use and mount the MA-76 as near the car's roof center as possible.

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RA-50 is compatible with all the L1 GPS devices and helps in GPS receptions in the closed