danets®
TurboTenna®

+9.5dBi Omni RP-SMA 2.4GHz WiFi Antenna Setup Guide

1. Compatibility Check

The +9.5dBi Omni antenna has the RP-SMA connector and it is a direct replacement of the factory rubber duck antenna having the same connector.

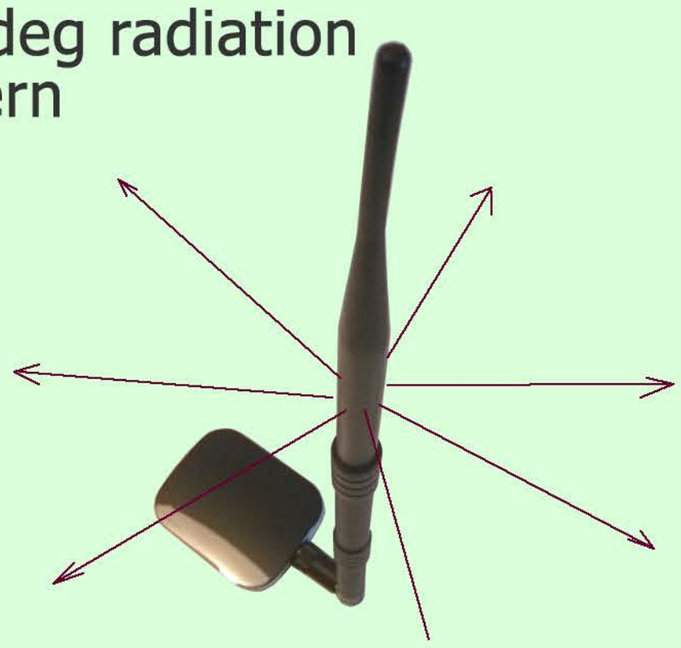
2. Antenna Connectivity

Your should have checked that your factory antenna is detachable before the purchase. Otherwise, you may have to build an external antenna port on your router to fit in your new antenna.

Further reading
http://www.danets.com/turbotenna/9.5dBiOmniSMA.php

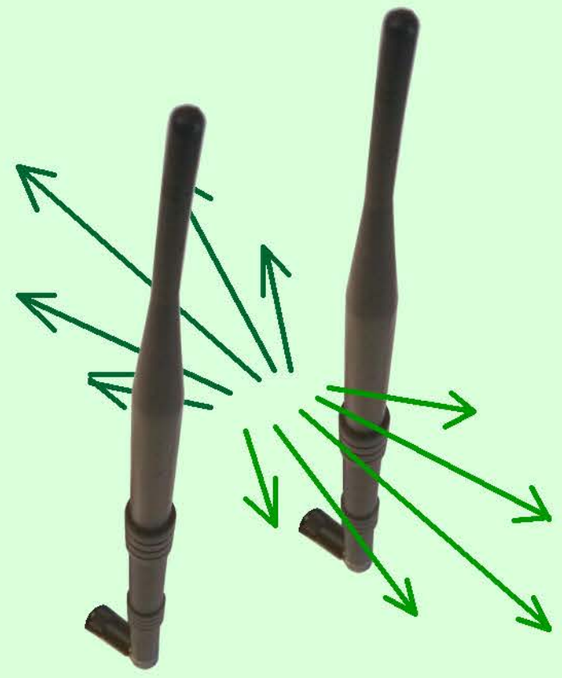
3. Antenna Adjustment

An Omni antenna offers 360 degree horizontal wireless coverage. Ideally the antenna should be set up in an upright position where the isotropic gain is the highest around it.



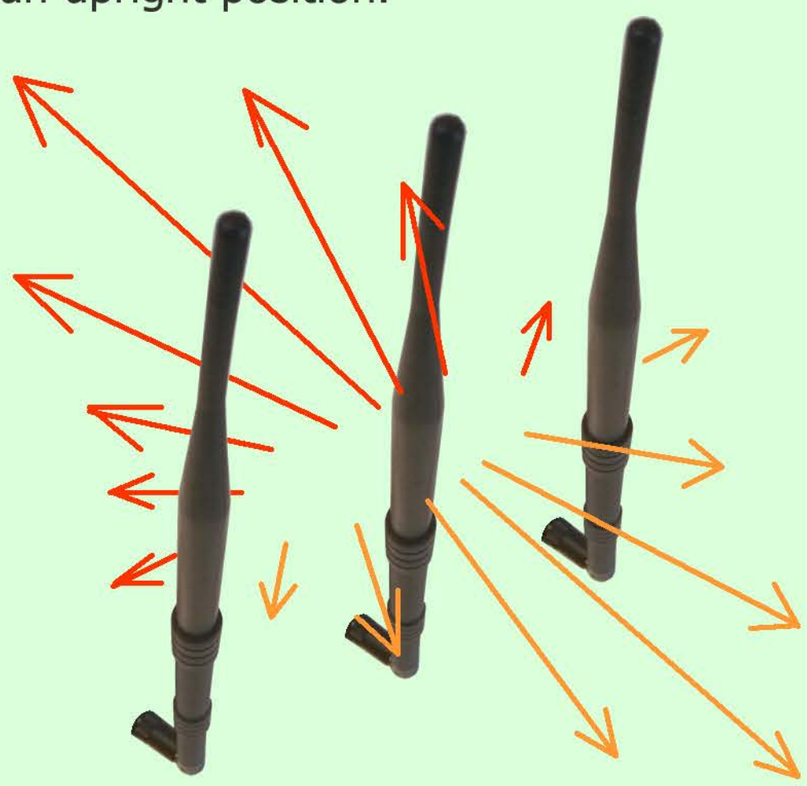
An upright position

If you have two Omni antennae, you need to put both of them in an upright position to form a dipole where the directional gain stretches out towards the front and back of the gap between them.



a dipole radiation pattern

Three Omni antennae forms an array of higher directional gain than a single omni or a dipole when you keep them in an upright position.



an array radiation pattern

360 deg radiation pattern

4. Technical Specifications

Frequency:	2400-2500 MHz
Gain:	+9.5dBi Omni directional
Standard:	IEEE 802.11b, 802.11g, 802.11n
Impedance:	50 Ohm
VSWR:	< 1.8:1 average
Length:	30cm
Wireless Coverage:	360 deg in horizontal plane
RF Connector:	RP-SMA
Polarization:	Linear vertical
Net Weight:	60g