

#### Antenna Information:

In order to comply with FCC 15.203, Ecotech Marine, LLC's RF Module, model number 10169, utilizes an onboard printed circuit board antenna. This antenna is manufactured on the printed circuit board and therefore cannot be removed or modified. There are no connectors to the RF output of the module, so no external antenna can reasonably be attached to our device. Clear photos of our antenna can be seen in the External Photos exhibit.

Northwest EMC performed an antenna gain test on our antenna in order to find exact values for the gain of our design. The test was performed on a bare, non-populated circuit board, with a test signal fed into the antenna.

#### List of Antennas:

Only 1 antenna can be used with our device

##### Antenna 1:

Type: PCB antenna

Manufacturer: Our PCB manufacturers vary, but the gerber files are constant, and therefore the PCB will always be identical

Maximum gain: 3.72 dBi

Description: Inverted F-type