

## Zonar V3 Telematics Device WiFi Antenna Information

This document provides antenna compliance information for the Zonar V3 telematics device.

- 1) **In compliance with FCC requirements of paragraph 15.203 of the FCC rules;** the WiFi antenna component is permanently mounted to the printed circuit board. There is no provision made for alternate antennas nor connectivity for any additional/external antenna.
  
- 2) **The V3 device uses a single surface mount chip type antenna.**
  - a. The antenna manufacturer is: Johanson Technology
  - b. Manufacturer part number is: 2450AT18A100
  - c. Antenna Frequency range is: 2400 - 2500 Mhz
  - d. Specific RF parameters are as such:

Parameter	Value
Peak gain	0.5 dBi typ. (XZ-V)
Average gain	-0.5 dBi typ. (XZ-V)
Minimum Return Loss	9.5 dB
Maximum VSWR	2.3:1

3) Details and photos of V3 antenna:

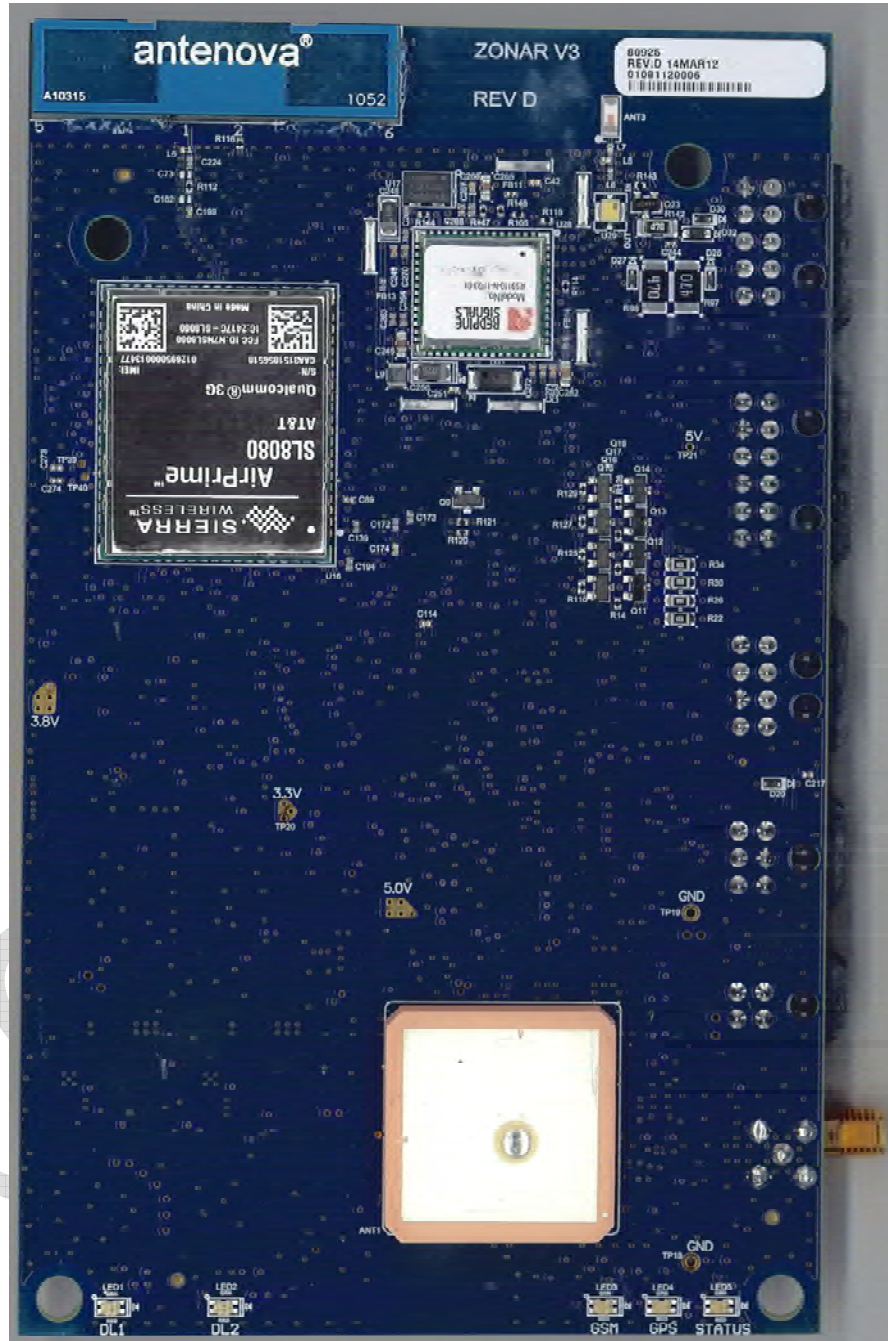


Figure 1 Antenna/Top side of V3 Device WiFi antenna in the upper right

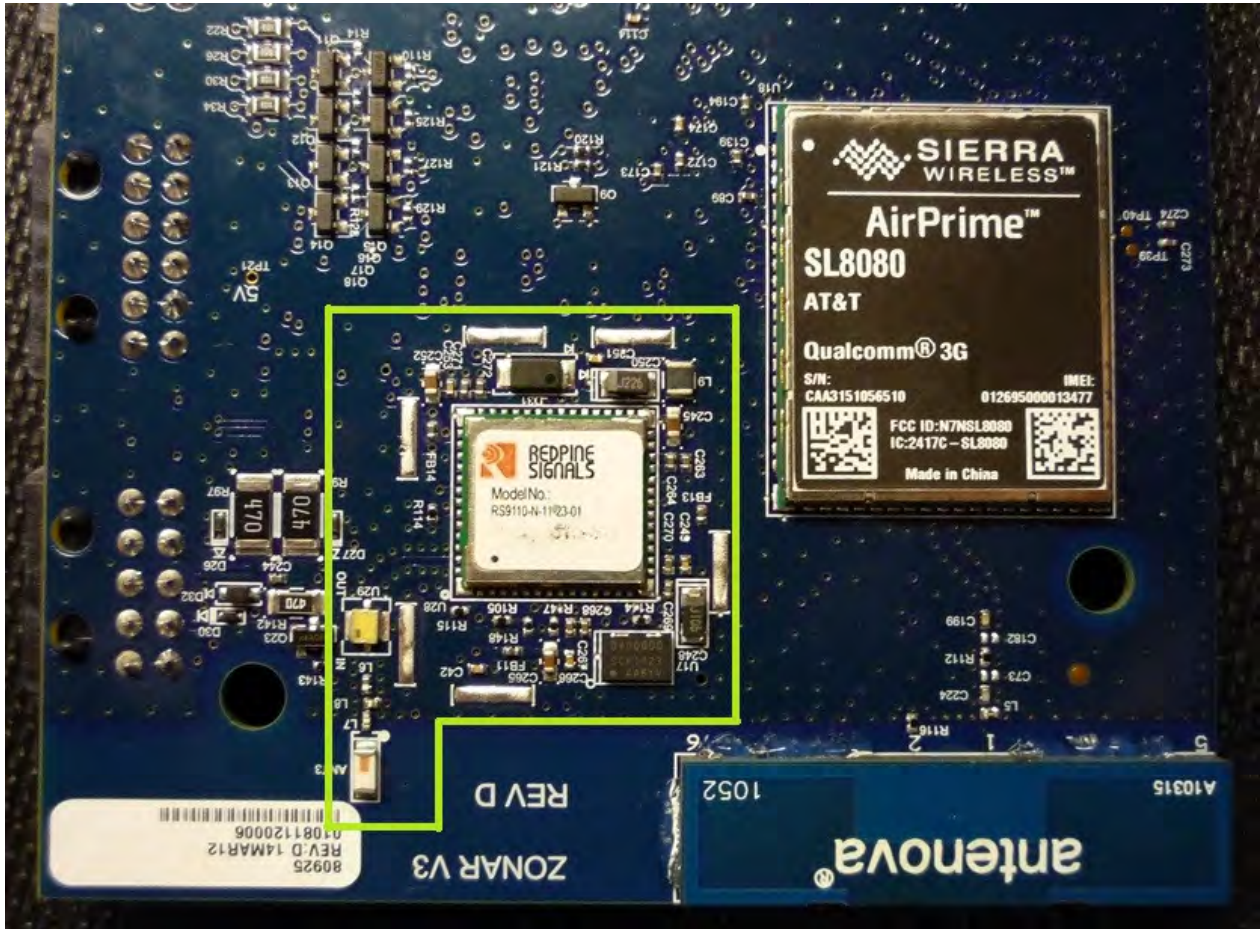


Figure 2 Close-up of WiFi sub-circuit with antenna in the lower left