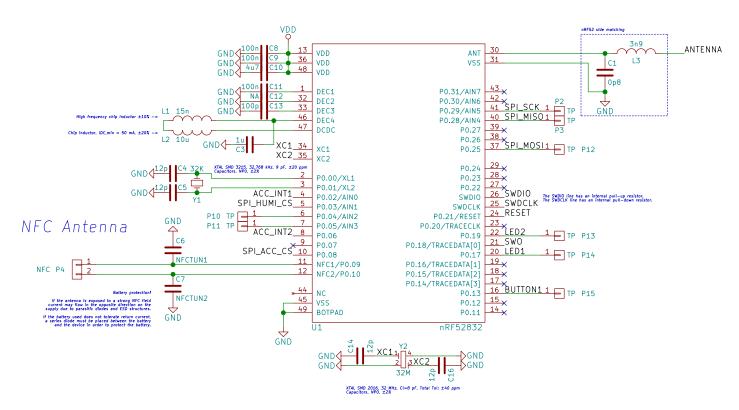
RuuviTag

Open-Source Bluetooth 4.2 Sensor Beacon

http://ruuvi.com

Bluetooth Smart SoC

LEDs & Buttons



Pressure + Humidity + Temperature



ANTENNA Shust capacitor or inductor, For convenience, a shunt capacitor is preferred capacitor of cheeper them an inductor. Shunt capacitor is cheeper them an inductor.

Nordis Cemicodictor's 1/A wavelength monopole antenna design guide states: When Implementally the monopole as a trace on the PCB. The length of the trace should be extended somewhat to allow for some fine-tuning of the antenna to When Implementally the monopole as a trace on the PCB. When the length of the trace should be extended somewhat to allow for some fine-tuning of the antenna to resonance at 2.55fbz; if the size of expenditure is a support of the size and the actions trace is uniformly surrounded by the PCB. The trace of the size and/or most of the antenna trace is cruded class to the edge of the PCB. One that the regist of the antenna trace should be extended by about 30X.

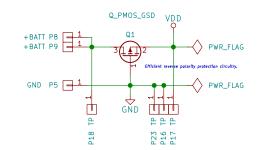
Theoretical length: L = 92mm / 4 = 23mm -> 23mm * 1.3 = 30mm

If the physical dimensions of the antenna can be altered, for example, witho PCB antenna, adjusting the length will be one part of the tuning. Another part is to add a component, inductor, or capacitor, to pull the antenna impedance towards the 50 ohm center point.

These external components are called the matching network.

If it is not possible to get the impedance exactly 60 obn by adjusting the length of the antonna, a component must be used to pull the impedance to the 60 ohm poll is preferable to use a shark capacifor since a capacifor is cheaper than an inductor and because a blunt component can be removed without any impact.

Power Source

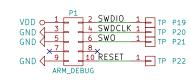


Supply voltage: 1V7 — 3V6
Absolute maximum: 3V6
The default is to use CR2477N Lithium coin obt alternative power sources are also suppo
Supercapacitor for example.

Accelerometer



Debug In



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