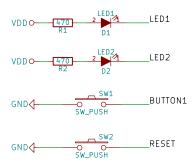
RuuviTag

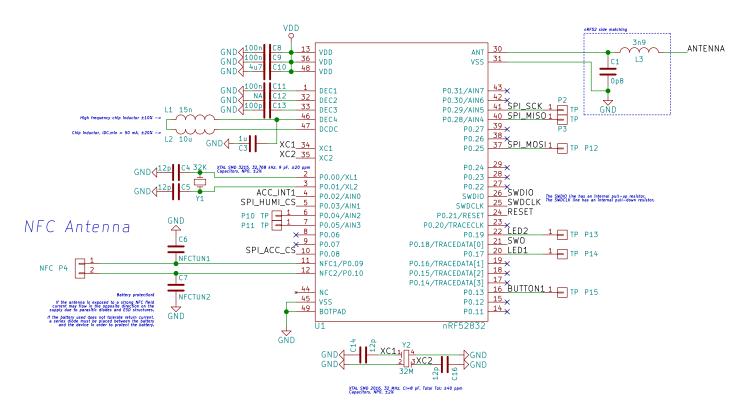
Open Source Bluetooth Smart Sensor Beacon

http://ruuvi.com

Bluetooth Smart SoC

LEDs & Buttons





Pressure + Humidity + Temperature

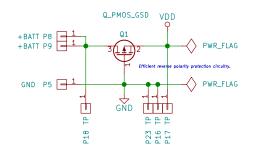


Antenna ANTENNA_ Shunt capacitor or inductor, For convenience, a shunt capacitor is preferred A shunt can be removed without changing the rest of the circuit and a capacitor is cheaper than an inductor.

Nordic Semiconductor's 1/4 wavelength monopole antenna design guide states: when implementing, the monopole as trace on the PCB, the length of the trace should be extended somewhat to allow for some fine—tuning of the antenna to the length of the frace should be extended by should CAV. If the ground plane size is considerably smaller than the ideal size and/or much of the antenna trace is routed close to the edge of the PCB, then the length of the antenna trace should be extended by about 30%. Therefored length to 92mm / 4 = 27mm - 2.7mm = 1.3 = 30mm. There are the following two methods to tune an antenna: If the philosoft dimensions of the natenna can be already or example, within PCB antenna, adjusting the length will be one part of the tuning. Another part is to add a component, inductor, or capacitor, to put the antenna impedance towards the 50 ohm center point. These external components are called the matching network.

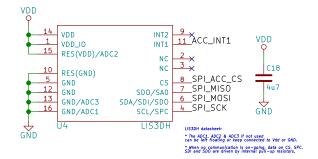
If it is not possible to get the impedance exactly 50 ohm by adjusting the length of the antenna, a component must be used to pull the impedance to the 50 ohm point, it is preferable to use a shunt capacitor since a capacitor is cheaper than an inductor and because a shunt component can be removed without any impact.

Power Source



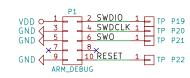
Supply voltage: 1V7 - 3V6 Absolute maximum: 3V6

Accelerometer





Debug In



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