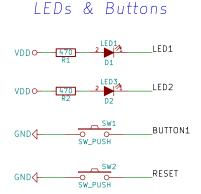
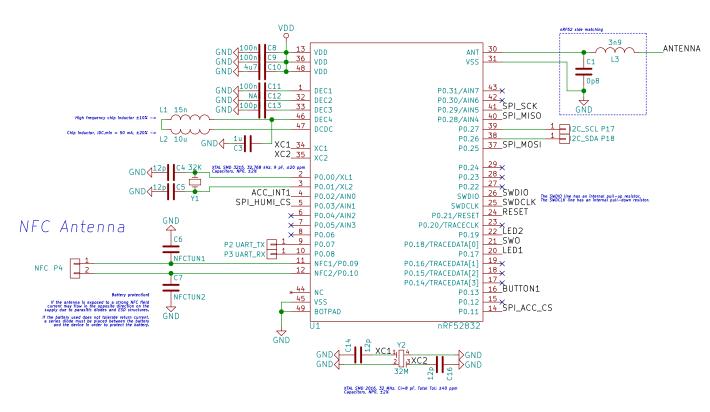
## RuuviTag

### Open Source Bluetooth Smart Sensor Beacon

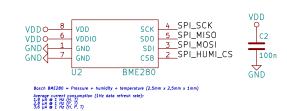
http://ruuvi.com

### Bluetooth Smart SoC





### Pressure + Humidity + Temperature



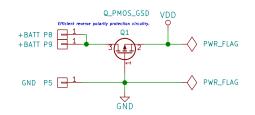
Antenna ANTENNA\_ Shunt capacitor or inductor, For convenience, a shunt capacitor is preferred. A shunt can be removed without changing the rest of the circuit and a capacitor is cheaper than an inductor.

# Nordic Semiconductor's 1/4 wavelength monopole antenna design guide states: when implementing, the monopole as a trace on the PCB, the length of the trace should be extended somewhat to allow for some fine—tuning of the antenna to the property of the state of the policy of the policy of the state of the policy of the policy 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%. Thereficeal realize the 92mm / 4 = 27mm - 1.3 = 30mm. There are the following two methods to tune an antenna: If the policy dimensions of the natenane can be already for 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 own center point. If the antenna cannot be altered physically, more external components must be used to tune the antenna.

This part position by at the importance exactly 00 dam by adjusting the length of the antenna, a component must be used to pull the impedance to the 50 ohm point. It is perfectable to use a shark capacitor since a capacitor is cleared than a miscuriar and because a unintercomponent can be removed without any impact.

For more Info. cack Rodic Semiconductor's With Paper about antenna training Google "NP"-DT\_Antenna\_Tuning".

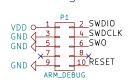
### Power Source



#### Accelerometer



### Debug In



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