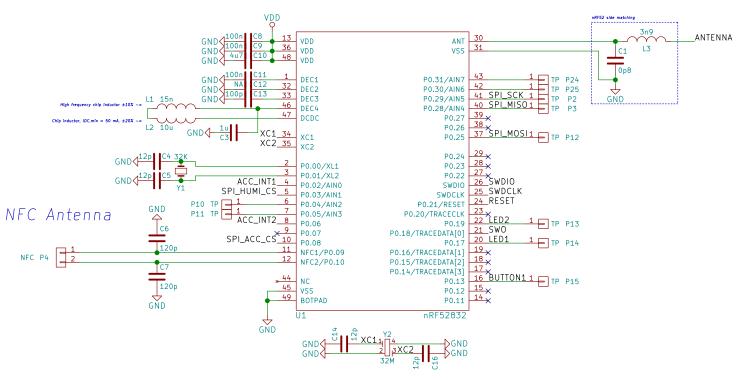
# RuuviTag

#### Open-Source Sensor Beacon

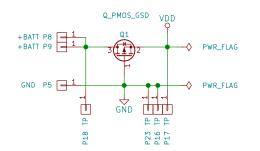
http://ruuvi.com

#### Bluetooth Smart SoC

LEDs & Buttons

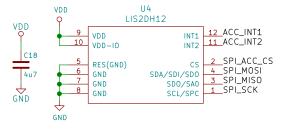


#### Power Source

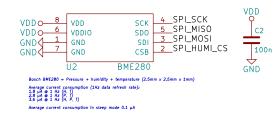


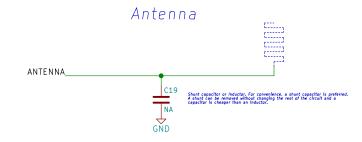
Supply voltage: 1V7 — 3V6
Absolute maximum: 3V6
The default is to use CR24XX Lithium coin cel
but alternative power sources are also support
Supercapacitor for example.

### Accelerometer



## Pressure + Humidity + Temperature





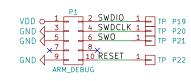
Nords: Semiconductor's 1/4 wavelength monopole antenna design guide states: When Implementing the monopole as a trace on the PCB, the length of the trace should be extended somewhat to allow for some fine-tuning of the antenna to resonance at 2.555/ct. If the size of weilible ground plane is approaching the ideal size and the antenna trace is uniformly surrounded by the PFB substitute that is a size of the antenna trace is uniformly surrounded by the PFB substitute that is a size of the antenna trace is uniformly surrounded to the antenna trace should be extended by about 30%. When the field of the antenna trace should be extended by about 30% with each ideal size analysis much of the antenna trace should be extended by about 30%.

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

If the physical dimensions of the antenna can be altered, for example, witha 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.

hese external components are called the makehing network. It is not possible to get the Impedance according to the American and the processible 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 puls preferable to use a short expection since a capacitor is cheaper than an inductor and because a shunt component can be removed without any impact.

#### Debug In



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