CPU

cpu.sch

Connectors

connectors.sch

Digital IO

Diglo.sch

Supply

Supply.sch

Sensors

Sensors.sch

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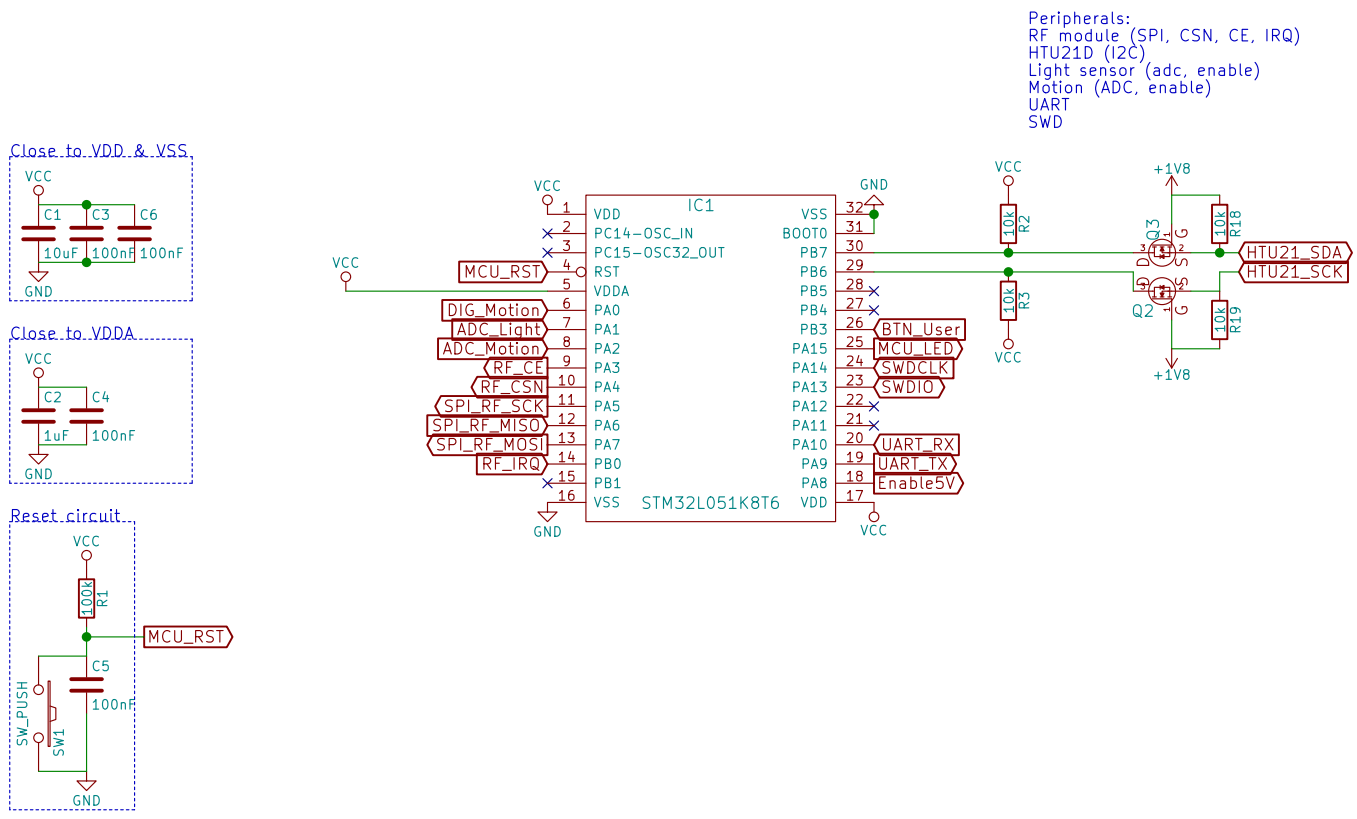
Sheet: /

File: Sensor.sch

Title: Sensor

Size: A4	Date: 2016-06-05	**Rev: 3**
KiCad E.D.A. kicad 4.0.4+dfsg1-stable		Id: 1/6



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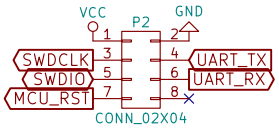
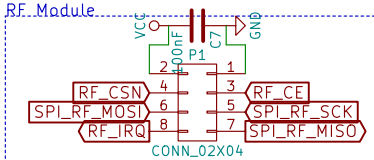
Title: Sensor		
Size: A4	Date: 2016-06-05	**Rev: 3**
KiCad E.D.A. kicad 4.0.4+dfsg1-stable		Id: 2/6

Debug Port



RF Module



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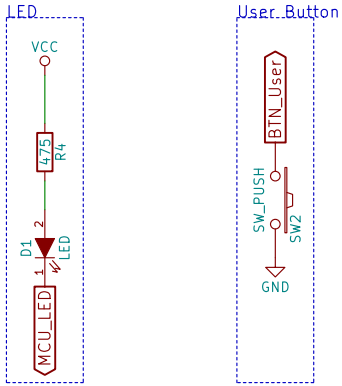
KiCad E.D.A. kicad 4.0.4+dfsg1-stable		Id: 3/6



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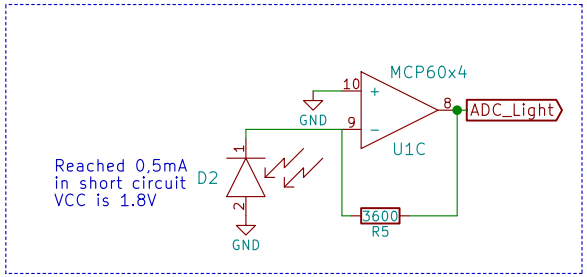
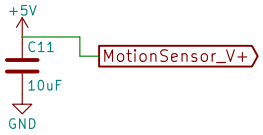
Title: Sensor		
Size: A4	Date: 2016-06-05	**Rev: 3**
KiCad E.D.A. kicad 4.0.4+dfsg1-stable		Id: 4/6

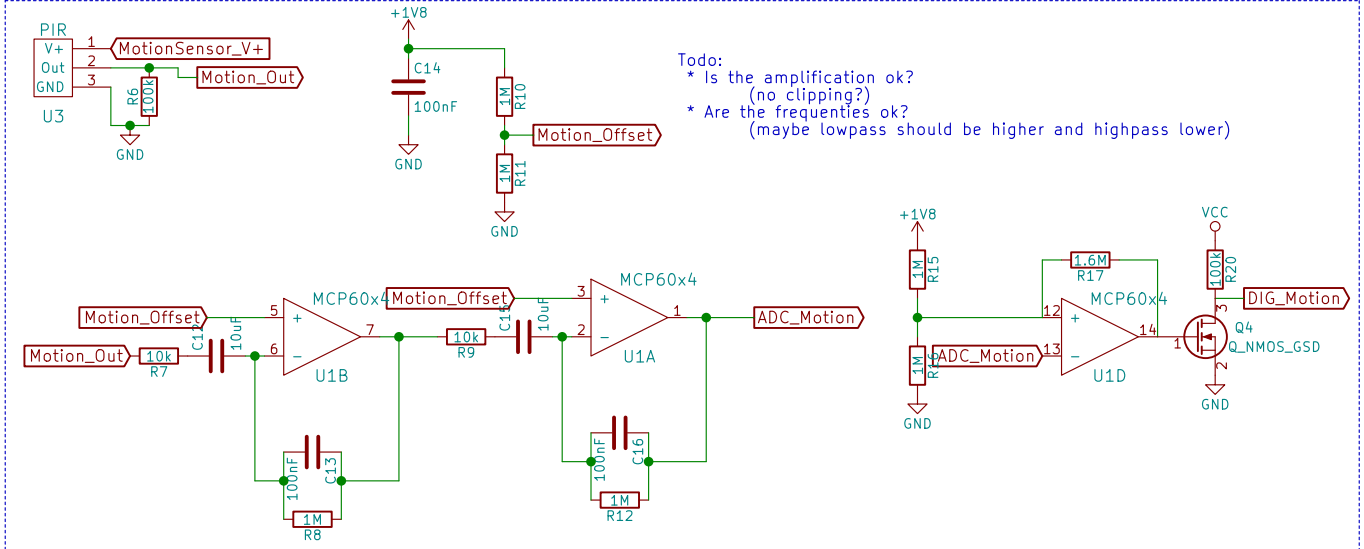
Light Sensor



Motion Sensor Power



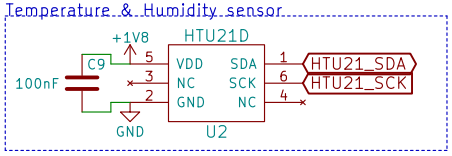
Custom Sensor



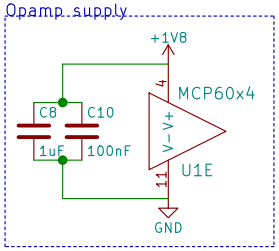
Amplify the motion output using band amplifiers
fc = 1/(2*Pi*R*C)
A = R_lowpass / R_highpass
The highpass filter is at the input, the lowpass is in the feedback loop

Here:
f_lowpass = 1.6Hz
f_highpass = 1.6Hz
A = 100

Temperature & Humidity sensor



Opamp supply



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Title: Sensor		
Size: A4	Date: 2016-06-05	**Rev: 3**
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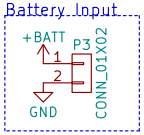
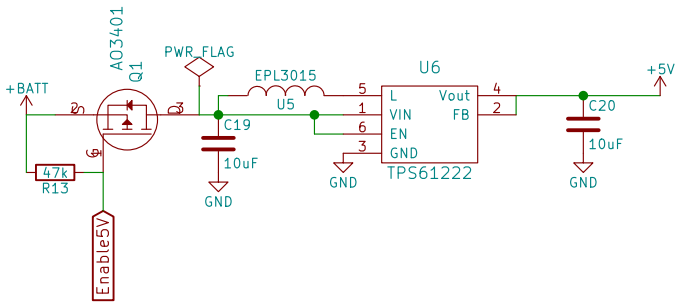
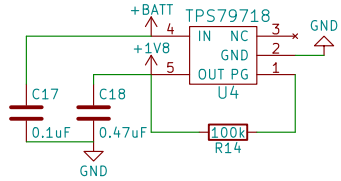
Battery Input



5V Supply



1V8 Supply



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Title: Sensor		
Size: A4	Date: 2016-06-05	**Rev: 3**
KiCad E.D.A. kicad 4.0.4+dfsg1-stable		Id: 6/6