# List of all components used

|  |  |  |  |
| --- | --- | --- | --- |
| **Number** | **Name** | **Used for** | **Link** |
| 1 | Pycom GPY | Main Hub | <https://docs.pycom.io/datasheets/development/gpy.html> |
| 2 | Pycom Expansion Board 3.0 | Main Hub | <https://docs.pycom.io/datasheets/boards/expansion3> |
| 3 | WS2813 Ledstrip - 30 LED | Main Hub | <https://www.kiwi-electronics.nl/ledstrips/digitale-rgb-ledstrip-ws2813-30-led-1m> |
| 4 | LTE-M Antenna | Main Hub | <https://pycom.io/product/lte-m-antenna-kit/> |
| 4 | I2CSoilMoistureSensor | Stick | <https://www.tindie.com/products/miceuz/i2c-soil-moisture-sensor/> |
| 5 | Adafruit Feather Huzzah | Stick | <https://www.adafruit.com/product/2821> |
| 6 | Lithium Ion Battery - 1Ah | Stick | <https://www.sparkfun.com/products/13813> |

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# Schematics

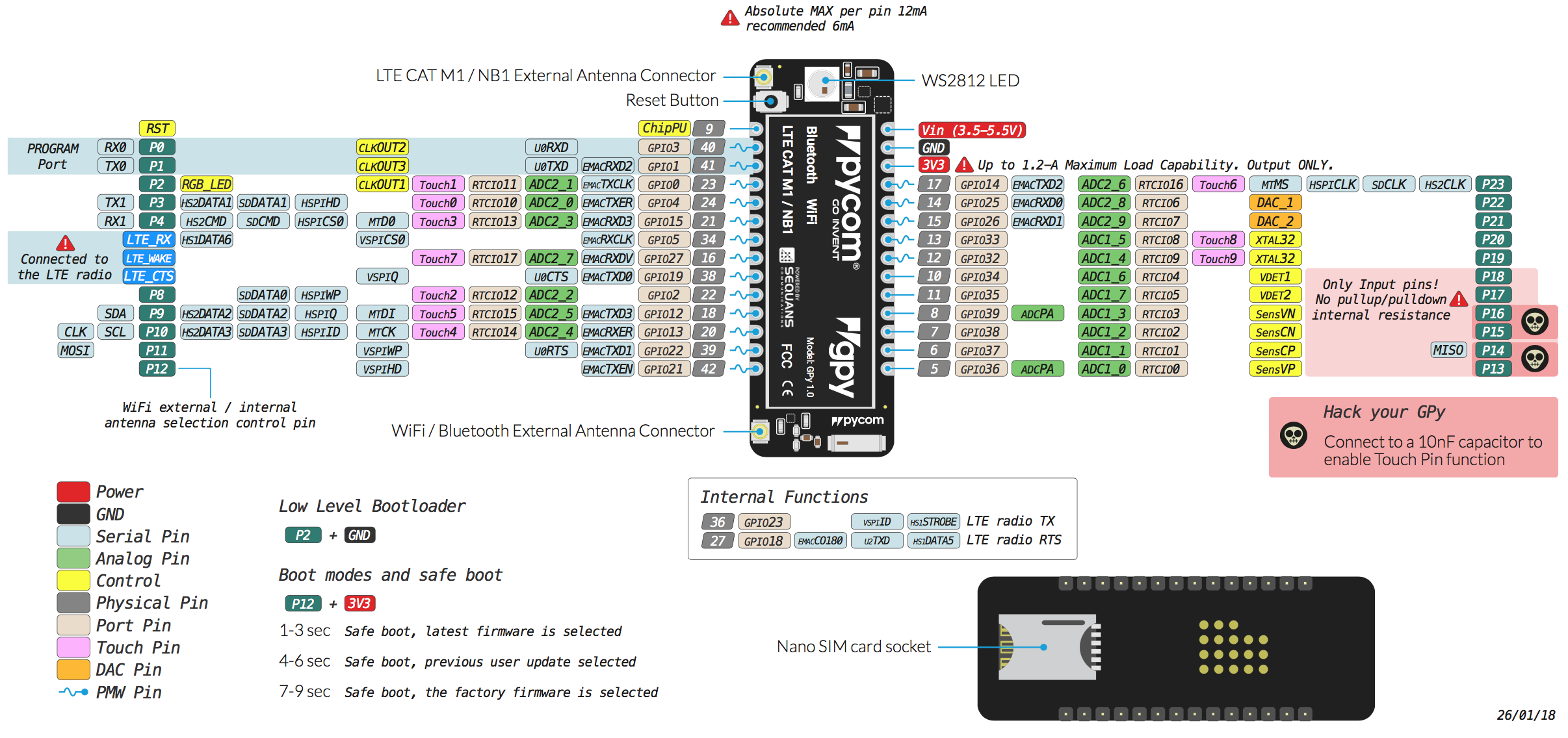
Below you can find all the schematics of the all the components listed above.

**Pycom GPY**

*Picture 1*

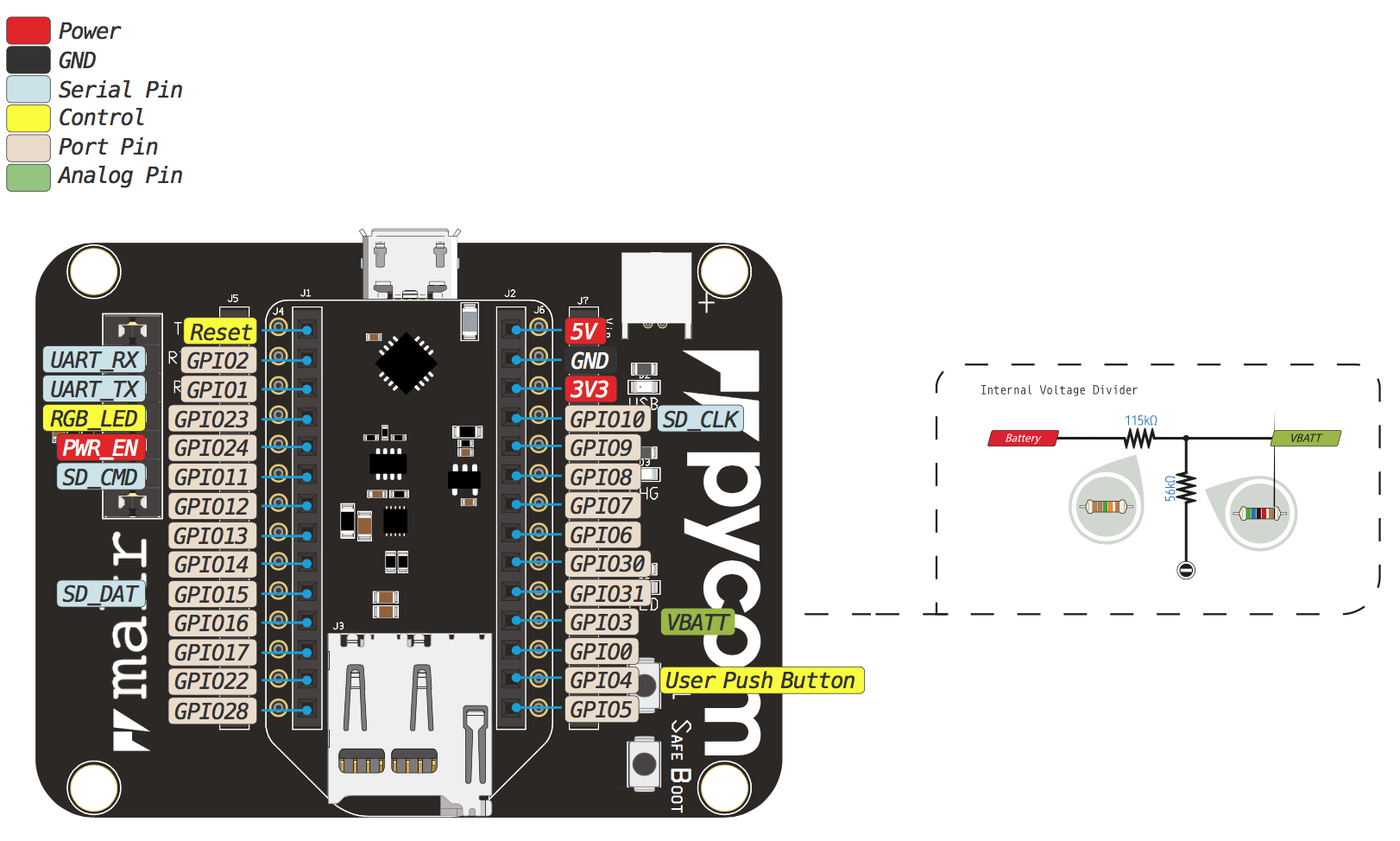
For a more detailed version of the Picture 1, click the following link:

<https://pycom.io/wp-content/uploads/2018/08/gpy-pinout.pdf>

For the whole documentation of the Pycom GPY, click on the following link:

<https://pycom.io/wp-content/uploads/2018/08/gpy-specsheet.pdf>

**Pycom Expansion Board 3.0**



*Picture 2*

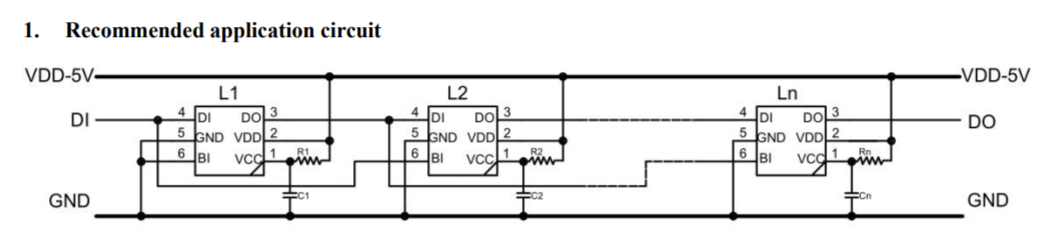
For a more detailed version of Picture 2, click on the following link:

<https://docs.pycom.io/.gitbook/assets/expansion3-pinout.pdf>

For the whole documentation of the Pycom Expansion Board 3.0, click on the following link:

<https://docs.pycom.io/.gitbook/assets/expansion3-specsheet-1.pdf>

**WS2813 Ledstrip - 30 LED**

*Picture 3*

In Picture 3 there is a schematic of the WS2813 Ledstrip. In the following link you can find more detailed information about this ledstrip and how to program it with Arduino.

<https://www.tweaking4all.nl/hardware/arduino/arduino-ws2812-led/>

**LTE-M Antenna**

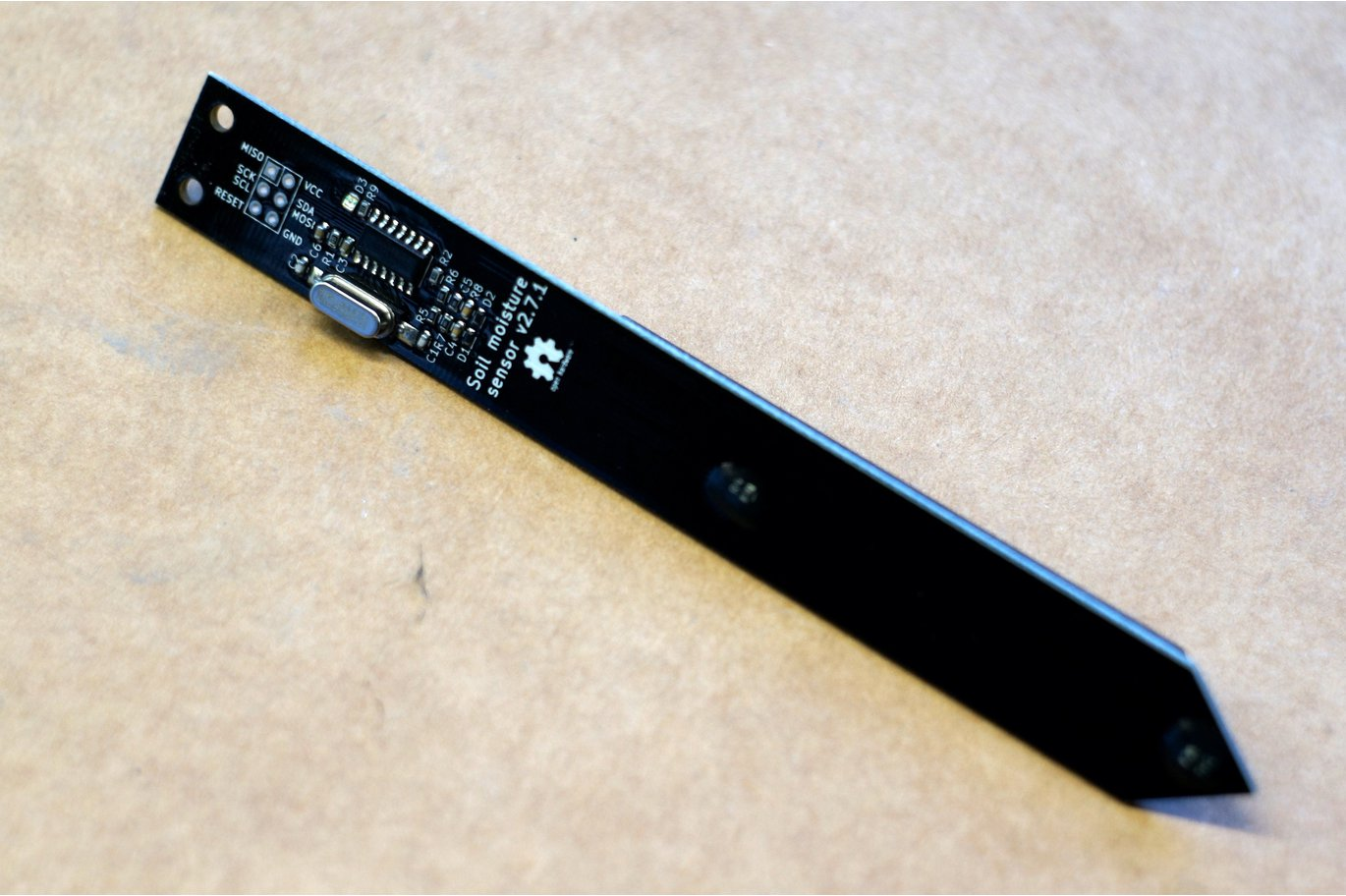


*Picture 4*

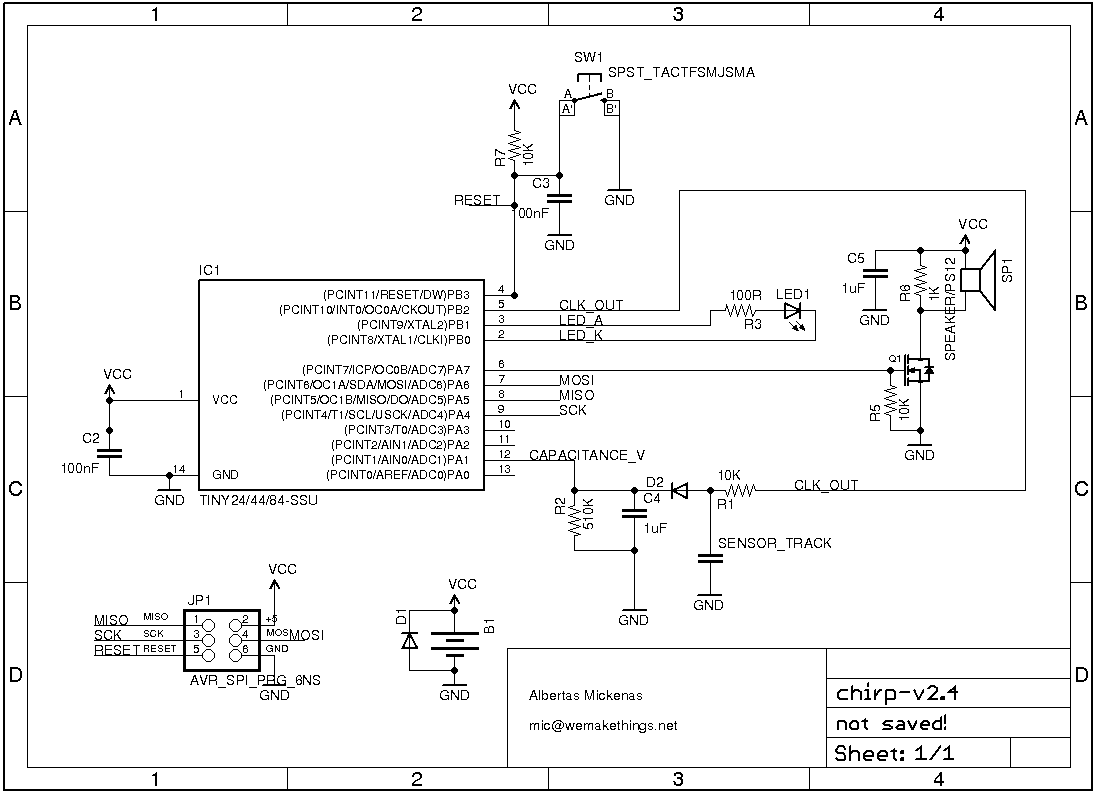
In the following link you can find the schematic of the LTE-M Antenna shown in Picture 4.

<https://docs.pycom.io/.gitbook/assets/lte-m-antenna-drawing.pdf>

**I2CSoilMoistureSensor**

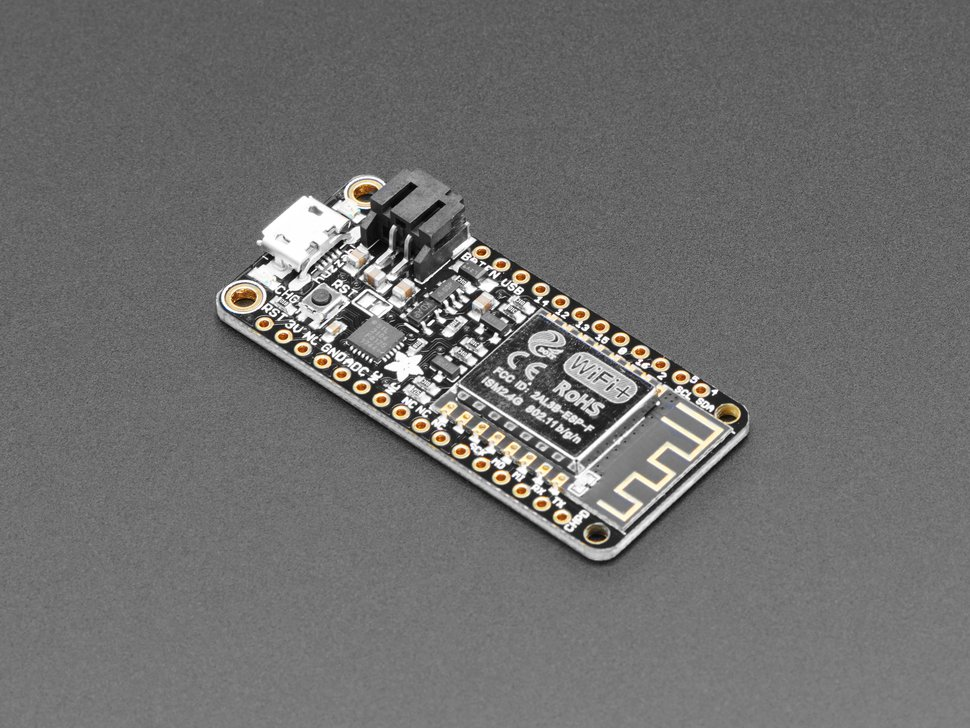


*Picture 5*

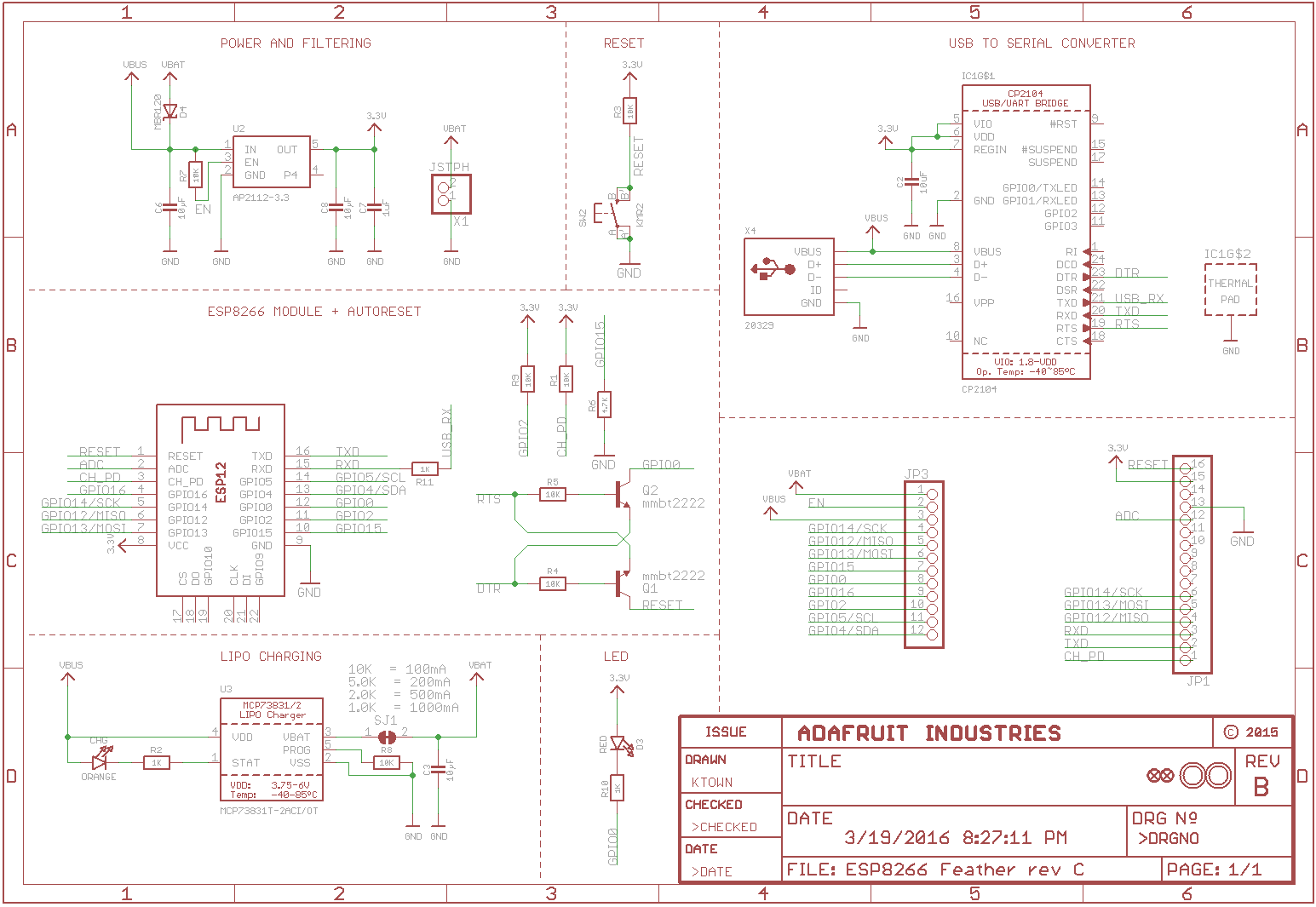
In Picture 5 you can see the I2CSoilMoistureSensor used in our project. In Picture 6 you can see the schematics of this sensor.

*Source:*[*https://github.com/Miceuz/PlantWateringAlarm/blob/master/schematics.png*](https://github.com/Miceuz/PlantWateringAlarm/blob/master/schematics.png) *Picture 6*

**Adafruit Feather Huzzah**



*Picture 7*

In Picture 7 you can see a picture of the Adafruit Feather Huzzah. In picture 8 there is a schematic of this chip.

*Picture 8*

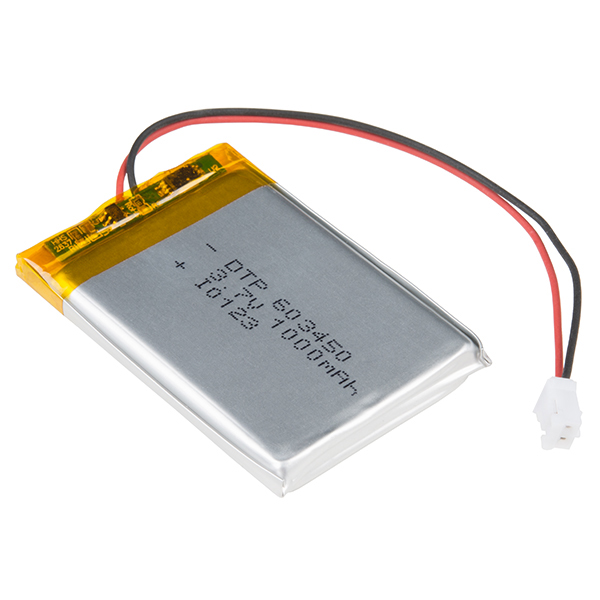
Open the following link to see the pin layout of the Adafruit Feather Huzzah.

<https://cdn-learn.adafruit.com/assets/assets/000/046/211/original/Huzzah_ESP8266_Pinout_v1.2.pdf?1504807178>

Open the following link to see the full documentation of the Adafruit Feather Huzzah.

<https://cdn-learn.adafruit.com/downloads/pdf/adafruit-feather-huzzah-esp8266.pdf>

**Lithium Ion Battery - 1Ah**



*Picture 9*

In picture 9 you can see the Lithium Ion Battery. In the following link you can see the documentation about the JST connector of the battery.

<https://www.sparkfun.com/datasheets/Prototyping/Connectors/ePH.pdf>

Open the following link to see the details about the MSDS Report of this battery.

<https://cdn.sparkfun.com/datasheets/Prototyping/MSDS%20603450.pdf>