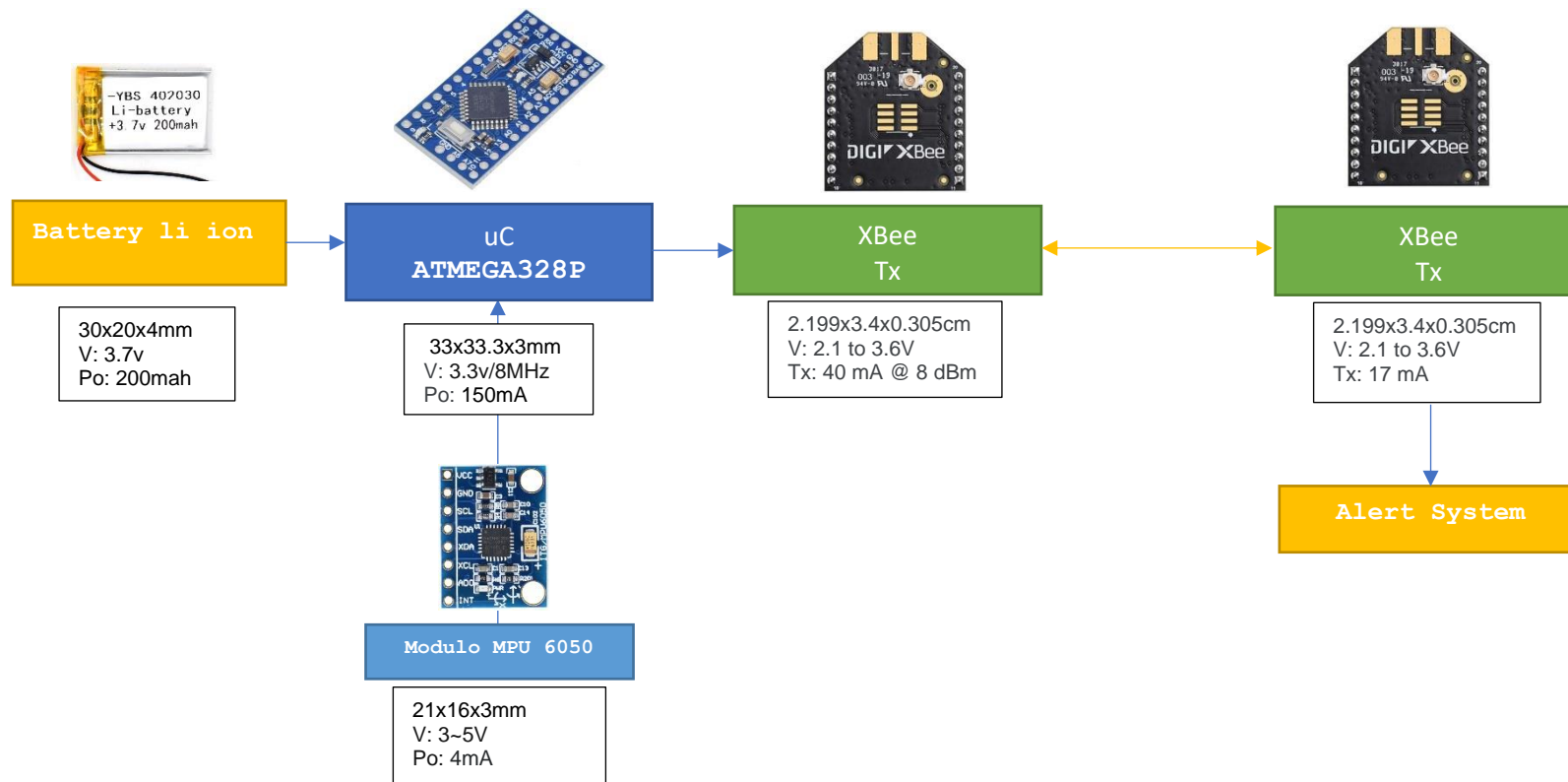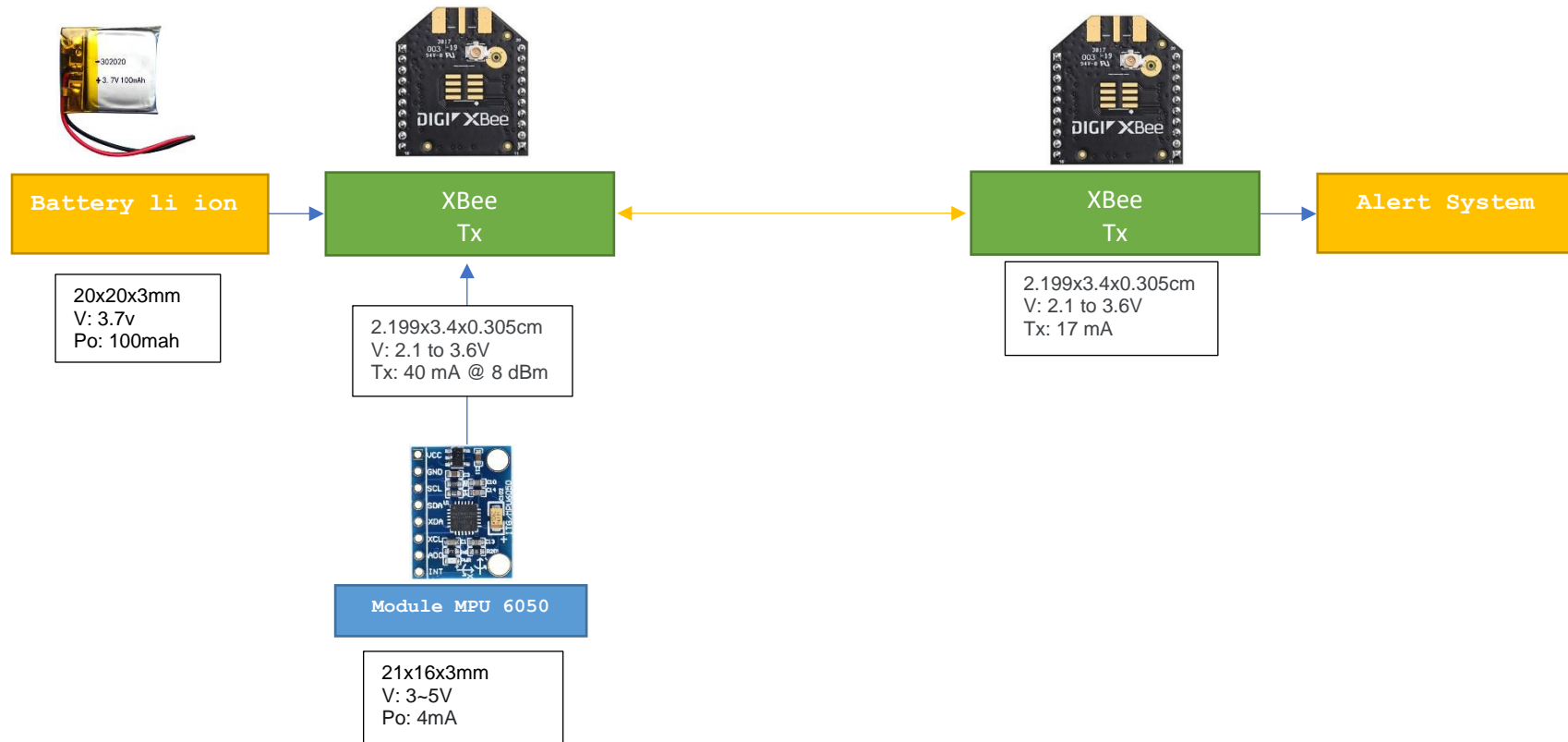# GETs detector

1.- First proposal

This proposal shows a topology which integrates a setup as alternative to read a sensor signal and send an alteration value from sensor thought an antenna.

| Battery li ion | | uC ATMEGA328P | | XBee Tx | | XBee Tx |

Battery li ion
30x20x4mm
V: 3.7v
Po: 200mah

uC ATMEGA328P
33x33.3x3mm
V: 3.3v/8MHz
Po: 150mA

XBee Tx
2.199x3.4x0.305cm
V: 2.1 to 3.6V
Tx: 40 mA @ 8 dBm

XBee Tx
2.199x3.4x0.305cm
V: 2.1 to 3.6V
Tx: 17 mA

Modulo MPU 6050
21x16x3mm
V: 3~5V
Po: 4mA

Alert System
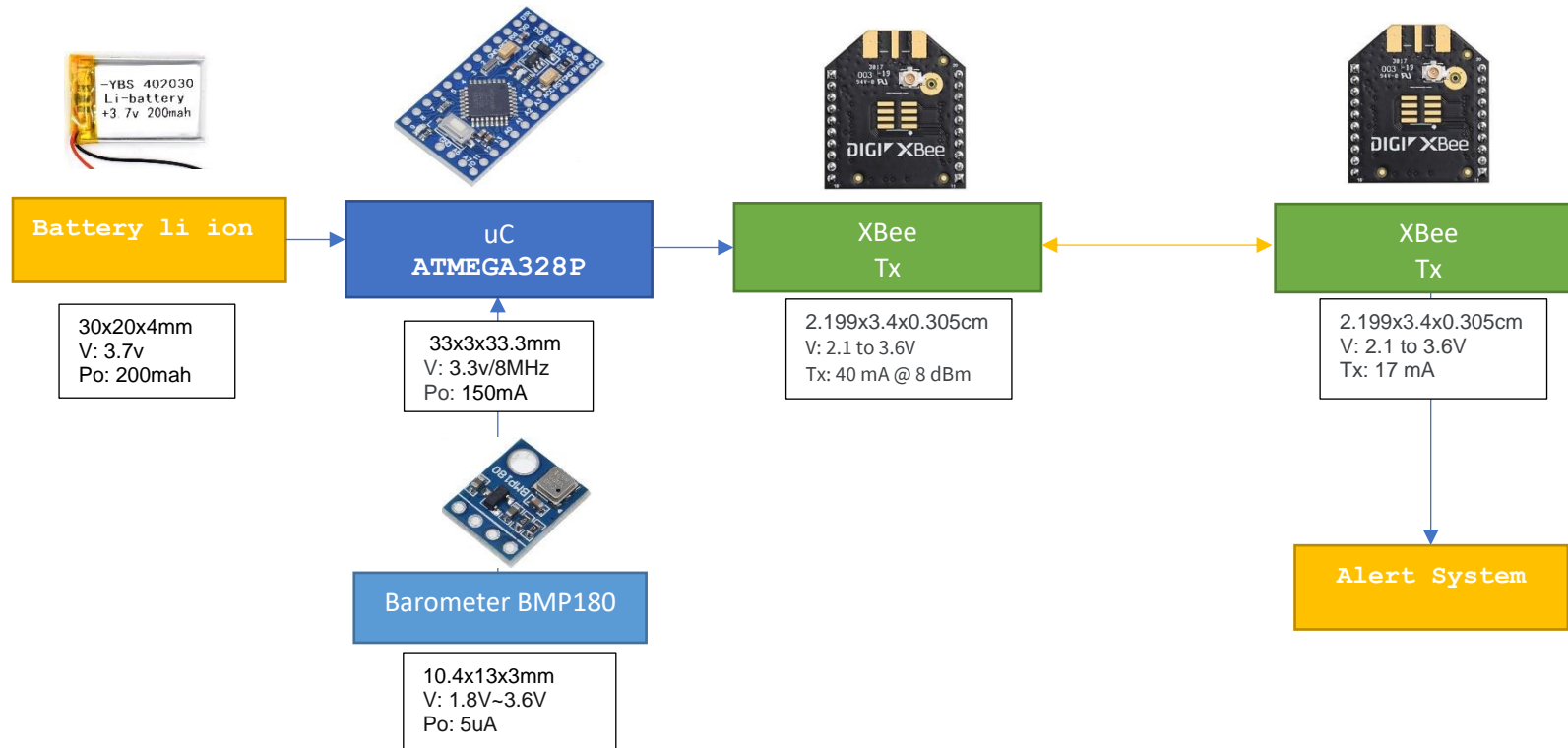
2.- Second proposal

The second proposal has another approach only using a XBee and a sensor (IMU) powered by a battery.

Where only values are sent to the main controller at the end of the receiver

Battery li ion
20x20x3mm V: 3.7v Po: 100mah

XBee Tx
2.199x3.4x0.305cm V: 2.1 to 3.6V Tx: 40 mA @ 8 dBm

Module MPU 6050
21x16x3mm V: 3~5V Po: 4mA

XBee Tx
2.199x3.4x0.305cm V: 2.1 to 3.6V Tx: 17 mA

Alert System

3.- Third proposal

This proposal works using a BMP180, sensor to measure altitude.

Battery li ion

30x20x4mm
V: 3.7v
Po: 200mah

uC ATMEGA328P

33x3x33.3mm
V: 3.3v/8MHz
Po: 150mA

XBee Tx

2.199x3.4x0.305cm
V: 2.1 to 3.6V
Tx: 40 mA @ 8 dBm

XBee Tx

2.199x3.4x0.305cm
V: 2.1 to 3.6V
Tx: 17 mA

Barometer BMP180

10.4x13x3mm
V: 1.8V~3.6V
Po: 5uA

Alert System

4.- Third proposal

This proposal works using a BMP180 sensor to measure altitude.

Battery li ion

20x20x3mm
V: 3.7v
Po: 100mah

XBee Tx

2.199x3.4x0.305cm
V: 2.1 to 3.6V
Tx: 40 mA @ 8 dBm

Barometer BMP180

10.4x13x3mm
V: 1.8V~3.6V
Po: 5uA

GET

XBee Tx

2.199x3.4x0.305cm
V: 2.1 to 3.6V
Tx: 17 mA

uC ATMEGA328P

System Alert