pigetArduino/gpsLogger

pigetArduino

GPS Logger

[Version française disponible](#)

Log speed/altitude/gps coordinate in a universal .csv file on an SD card every 15 seconds
(DAYHOURMINUTESSECOND.csv)
[Example file](#)

Compatibility

- Libre office calc / Excel
- Gpsies.com (you can convert it in gpx)
- Viking : https://sourceforge.net/projects/viking/

Buzzer sound

- Heavy sound : GPS/SD card fatal error
- Soft repetitive sound : GPS is calibrating (can take up to 5 minutes)
- Melody : GPS is online
- Soft and short sound : GPS coordinates saved to sd

Components:

- Ublox GPS module (or compatible with tinygps++)
- Micro SD to SD card Adapter
- 2Go (or less) Micro SD card
- A buzzer
- An Arduino Pro Mini 3V
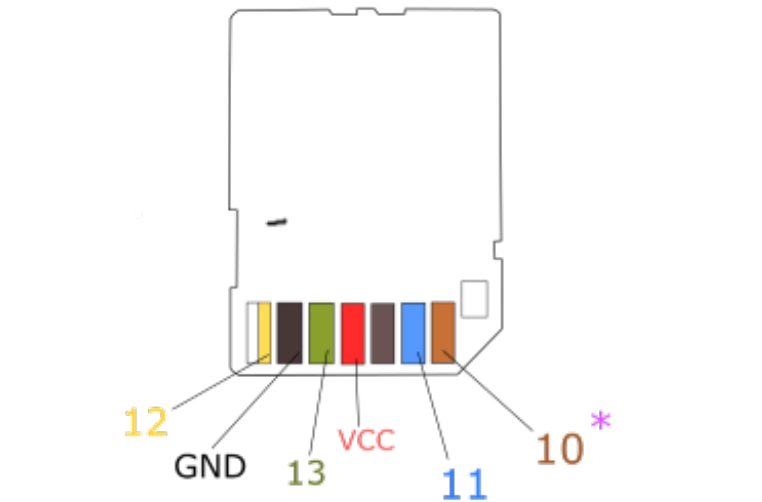- Batteries

Estimate cost : 15.50€
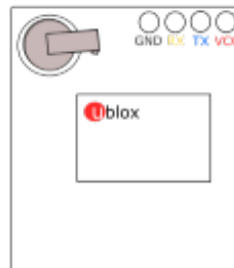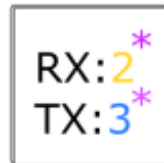
More details on [bill_of_materials.md](#)

Tools:

- ftdi 3V/5V programmer

Wiring:

SD card Adapter

12
GND 13
VCC
11
10 *

GPS

RX:2*
TX:3*

GND RX TX VCC

Ublox

DO NOT PLUG TX/RX INTO TX/RX

GPSlogger   *changeable

SD card

```
1 --> X
2 --> 12
3 --> GND
4 --> 13
5 --> VCC
6 --> GND
7 --> 11
8 --> 10 (Chip
select)
```

GPS

```
RX -->
2
TX -->
3
```

Buzzer

```
+ --->
9
```

Libraries

```
TinyGPS++ library
```

3D models

[See 3D models](#)

```
Tested on Ultimaker 2 GO with PLA
To improve solidity print A in
solid
A Infill: Solid
B Infill: Dense
```

- Author : Olivier Sarrailh