

pigetArduino/gpsLogger

 github.com/pigetArduino/gpsLogger

GPS Logger

[Version française / French version](#)

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

[Example file](#)

Project link

<http://gps.madnerd.org>

Compatibility

- Libre office calc / Microsoft Excel
- <http://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€ (batteries not included)

More details on [bill_of_materials.md](#)

Tools:

- ftdi 3V/5V programmer

Software needed:

- Arduino (Programming): <http://arduino.madnerd.org>
- Cura (3D printing): <https://ultimaker.com/en/products/cura-software>

3D models

[See 3D models](#)

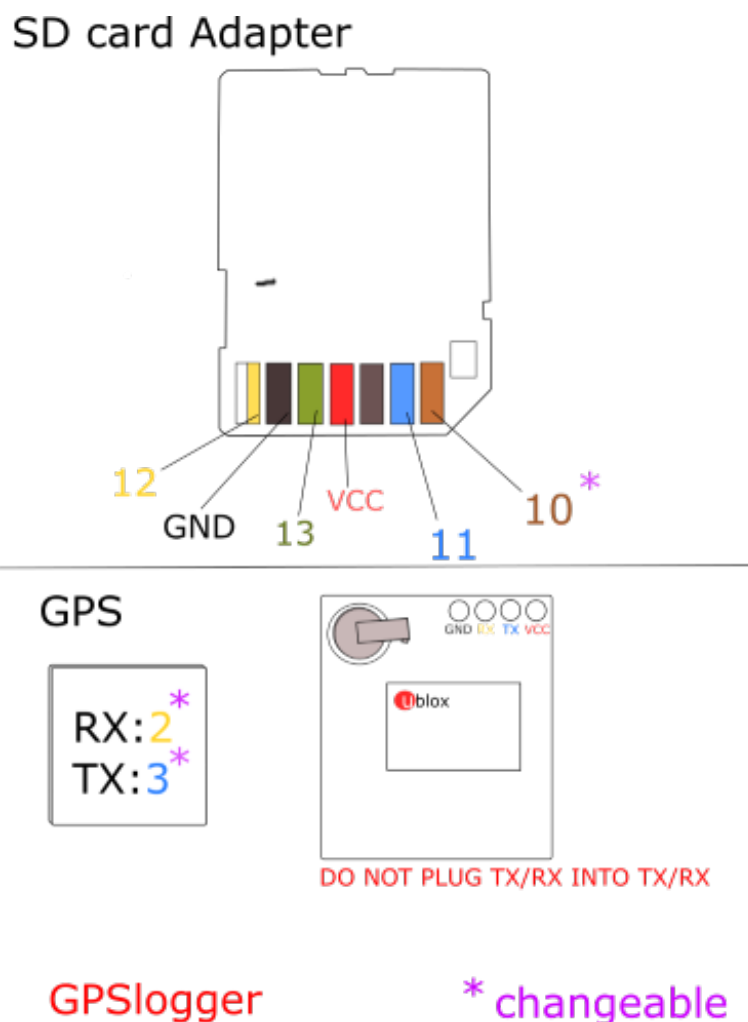
Tested on Ultimaker 2 GO with PLA
To improve solidity print A in
solid

A Infill: Solid

B Infill: Light

- Author : Olivier Sarrailh

Wiring:



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 : <https://github.com/mikalhart/TinyGPSPlus>