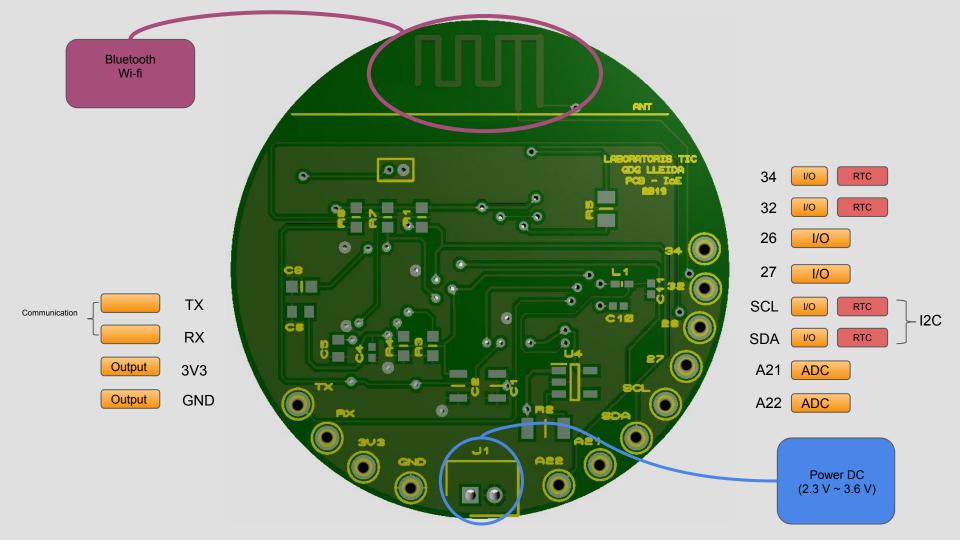
Internet of Espadrilles - PCB

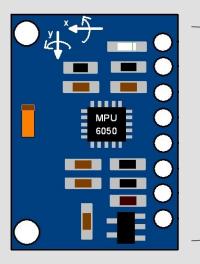
Introduction

- PCB
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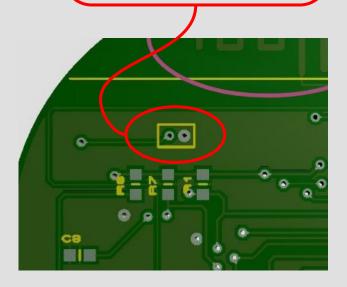
Features

- Temperature Sensor
- Gyroscope Sensor
- Accelerometer Sensor
- Wi-fi
- Bluetooth



Sensor onboard, I2C communication with Microcontroller (SDA and SCI)

Here we have a switch for connect antenna from the ground, if don't work the connection bluetooth or Wi-fi, make a jump here and test again.



Communication

For send to program on the PCB, you need a plate of FTDI and follow the draw bellow.

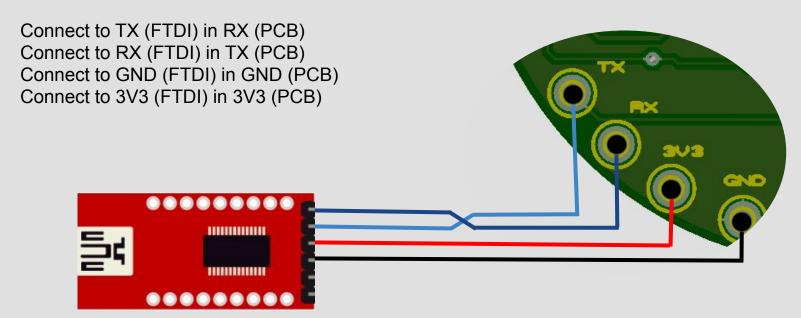
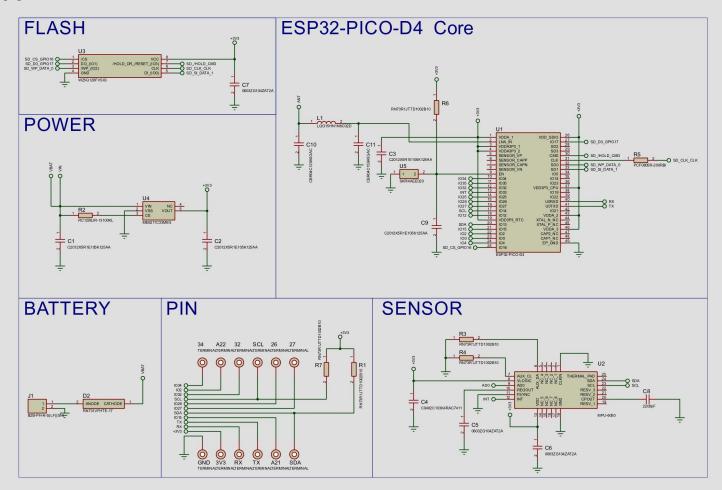


TABLE I/Os

Name	PCB	Туре	Function
IO26	26	I/O	GPIO26, DAC_2, ADC2_CH9, RTC_GPIO7, EMAC_RXD1
1027	27	I/O	GPIO27, ADC2_CH7, TOUCH7, RTC_GPIO17, EMAC_RX_DV
IO14	SCL	I/O	ADC2_CH6, TOUCH6, RTC_GPIO16, MTMS, HSPICLK, HS2_CLK,SD_CLK, EMAC_TXD2
IO13	SDA	I/O	ADC2_CH4, TOUCH4, RTC_GPIO14, MTCK, HSPID, HS2_DATA3, SD_DATA3, EMAC_RX_ER.
IO34	34	I	ADC1_CH6, RTC_GPIO4
IO32	32	I/O	32K_XP (32.768 kHz crystal oscillator input), ADC1_CH4, TOUCH9, RTC_GPIO9
IO15	A21	I/O	ADC2_CH3, TOUCH3, RTC_GPIO13, MTDO, HSPICS0, HS2_CMD,SD_CMD, EMAC_RXD3
IO2	A22	I/O	ADC2_CH2, TOUCH2, RTC_GPIO12, HSPIWP, HS2_DATA0, SD_DATA0

Schematic



DataSheet

- https://www.espressif.com/sites/default/files/documentation/esp32-pico-d4 datasheet en.pdf
- https://www.invensense.com/wp-content/uploads/2015/02/MPU-6000-Datasheet1.pdf
- https://www.winbond.com/resource-files/w25q128fv revhh1 100913 website1.pdf

Communication

• https://www.prometec.net/esp8266-pluggin-arduino-ide/