```
A INTRODUCTION
  PYCOM HELIUM MINER
  PYCOM PRODUCTS
  GETTING STARTED
  TUTORIALS & EXAMPLES
  FIRMWARE & API REFERENCE
  PRODUCT INFO, DATASHEETS
   DEVELOPMENT MODULES
   OEM MODULES
    SHIELDS
      PYGATE
      PYSENSE
     PYSENSE 2.0 X
      PYTRACK
      PYTRACK 2.0 X
      PYSCAN
      EXPANSION BOARD 2.0
     EXPANSION BOARD 3.0
      DEEPSLEEP
     PYETHERNET
    HELIUM HOTSPOT MINER
    PYNODE+
    ACCESSORIES
   NOTES
  UPDATE FIRMWARE
  PYBYTES
  CELLULAR SERVICES
  PYLIFE
  PYMESH
  MICROPYTHON SUPPORT
  ADVANCED TOPICS
  LICENSE
```

Have a question?

ASK ON THE FORUM

PRODUCT INFO, DATASHEETS > SHIELDS > PYTRACK 2.0 X

≡ Pytrack 2.0X Search the docs...

The Pytrack 2.0 X shield allows you track your location using the onboard GPS and accelerometer.

Getting started

PYTRACK 2.0X

1. Find the libraries for the Pytrack 2.0 X in the <u>Pycom libraries</u> repository on Github.

2. Download the files and extract them into the project folder in Pymakr

3. Click the **upload project to device** button. This will store all necessary files on the device and allow you to import them in the example **main.py**.

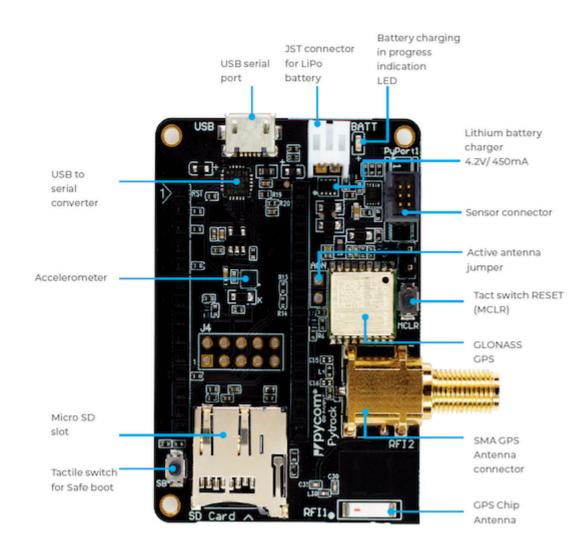
4. Check the REPL. If you have Pybytes activated, the example will send the location data to Pybytes automatically.

Examples

The Pytrack has several examples:

<u>Tracking</u>

Features



Datasheet

The datasheet of the Pytrack is available as a PDF File

Pinout

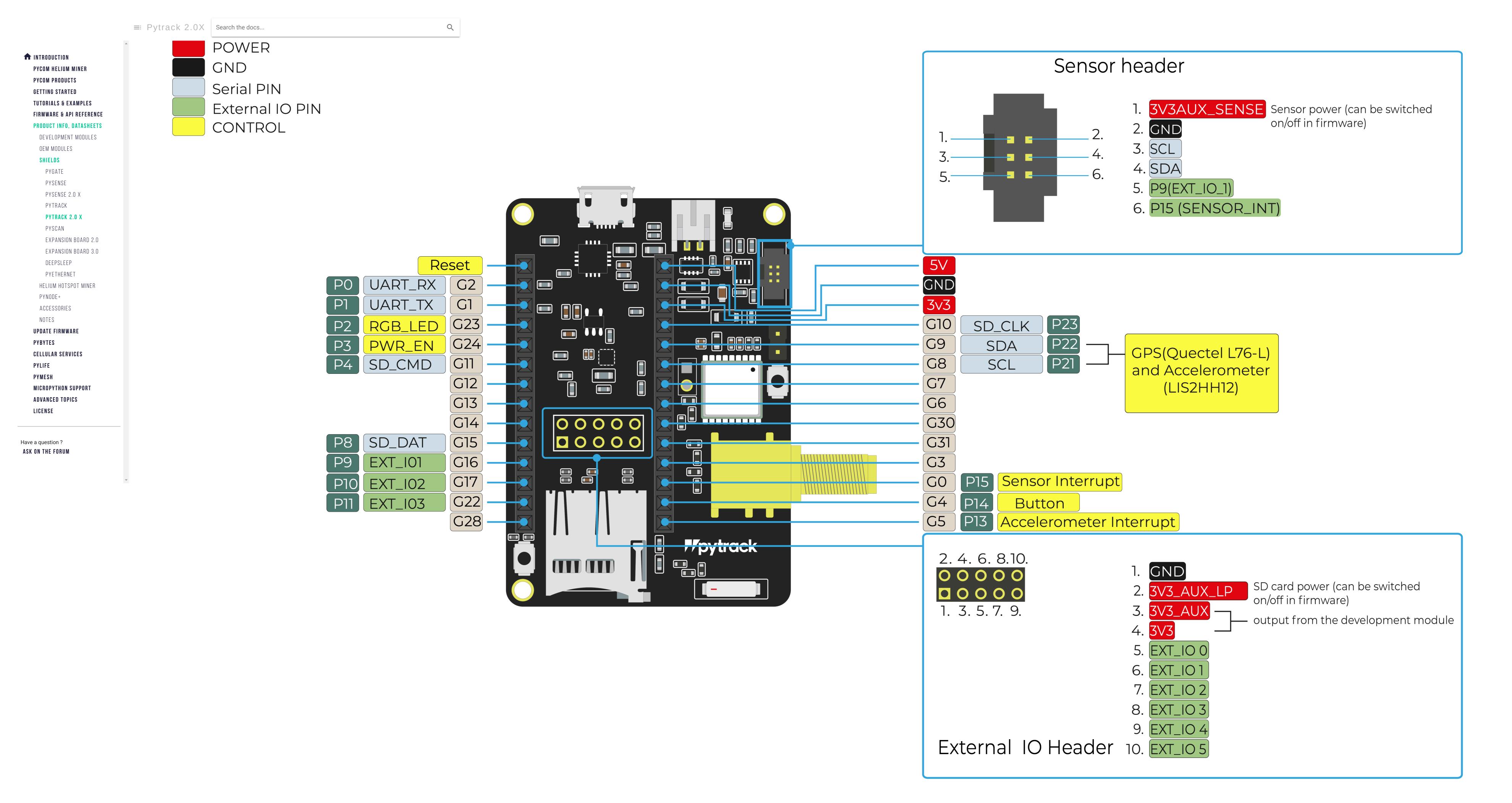
The PyPort connector is for a 6 lead mini ribbon cable. Part: Amphenol 20021511-00006T4LF. The external IO header power pins are labelled as follows

- 3V3AUX The power provided by the development module
- 3V3AUX_LP the power provided by the development module for the SD card (This can be switched off)
- 3V3 The power provided by the Pysense 2, for the USB-Serial converter. This is also used to power the GPS in standby mode.

The Pytrack 2 can be powered through the USB port, the battery connector and the VUSB_AUX header just below the PyPort. Connecting a 5V supply to the header will result in exactly the same behaviour as powering it through the USB connector.

The pinout of the Pytrack is available as a <u>PDF File</u>

The Pytrack 2.0 X features a SMA connector that allows for the connection of an external active or passive GPS antenna. The SMA connector has an internal to the external antenna automatically upon connection of the external antenna.



Note

Antenn

The Pytrack 2.0 X board has an internal GPS antenna built in. You can find it on the front side near the bottom, labelled RFI1. When you are not using the external antenna, remove the jumper labeled AON. If you want better reception and faster fix times, you can purchase the appropriate GPS antenna from our webshop here.

Battery Charger

The board features a single cell Li-Ion/Li-Po charger with a JST PHR-2 connector. When the board is being powered via the micro USB connector, it will charge the battery (if connected).

Make sure you check the polarity of the battery before plugging it in! Connect the positive side to the side marked with a +.

Mechanical Dimensions

INTRODUCTION

PYCOM HELIUM MINER

PYCOM PRODUCTS

GETTING STARTED

TUTORIALS & EXAMPLES

FIRMWARE & API REFERENCE

TUTORIALS & EXAMPLES
FIRMWARE & API REFERENCE
PRODUCT INFO, DATASHEETS

DEVELOPMENT MODULES

OEM MODULES

SHIELDS

PYGATE

PYSENSE

PYSENSE 2.0 X

PYTRACK

PYTRACK 2.0 X
PYSCAN
EXPANSION BOARD 2.0

EXPANSION BOARD 3.0

DEEPSLEEP

PYETHERNET

HELIUM HOTSPOT MINER

PYNODE+
ACCESSORIES

NOTES

UPDATE FIRMWARE

PYBYTES

CELLULAR SERVICES

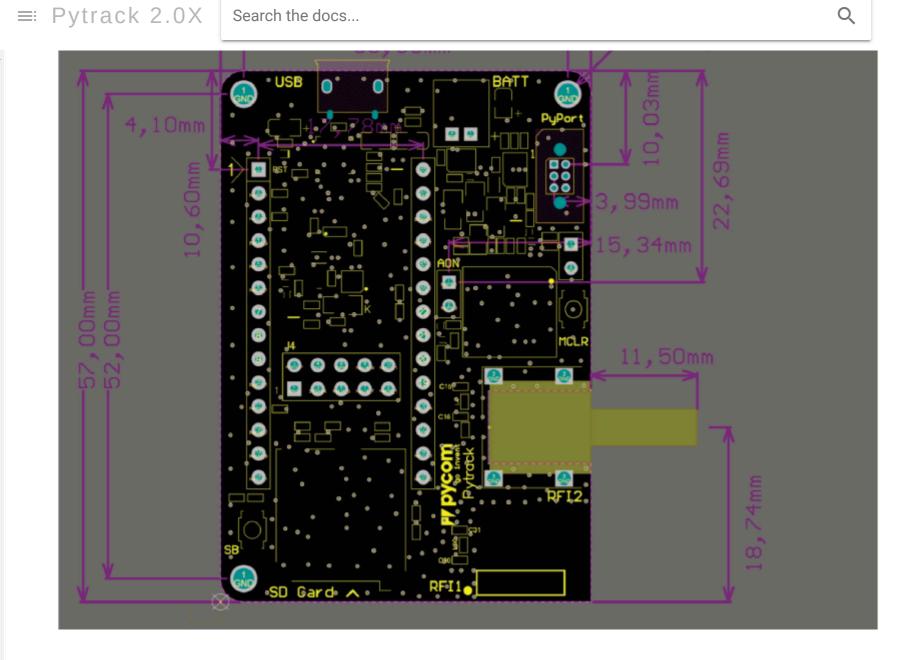
PYLIFE

PYMESH
MICROPYTHON SUPPORT
ADVANCED TOPICS

Have a question?

ASK ON THE FORUM

LICENSE



3D model for case design

• Please see the <u>3D model</u> (step format)

PREVIOUS

NEXT