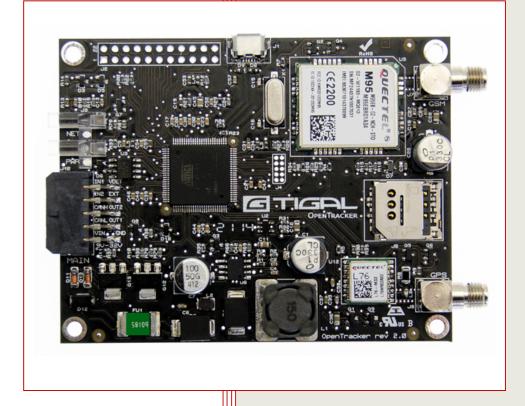


Opentracker 2

User Manual

Release 1.0.1



www.tigal.com



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Introduction

The OpenTracker v2 is the first 100% Arduino compatible, fully open source, commercial grade GPS/GLONASS vehicle tracker that comes with a free web interface for tracking it on Googlemaps or OpenStreetMaps.

The OpenTracker v2 hardware includes the same powerful 32-bit ATMEL SAM3A8C ARM Controller as the Arduino DUE, a GSM/GPRS modem for wireless connectivity, a GPS/GLONASS module with Assisted-GPS, CAN-BUS, plenty of I/O, and a wide operating temperature range of -35°C to +80°C.

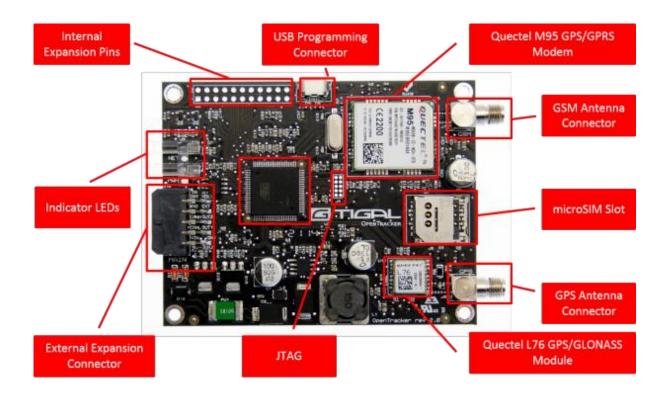
The hardware is pre-programmed and able to send tracking data right out of the box; you will only need the SIM card and to register the device on our free-to-use tracking software.

After the configuration is complete you will see your device on the map. By default the application uses Google Maps but this can be easily changed to use the map provider you like. Just scroll and zoom through the maps as you are used to. The amount of trackers per user is unlimited.



Hardware Introduction

Board Overview



Processor

The ATMEL SAM3A8C ARM Cortex-M3 CPU is a 84MHz 32-bit ARM Core microcontroller with 512 kbytes embedded Flash (2 x 256 kbytes) and 96 kbytes embedded SRAM organized in two banks of 64 + 32 kbytes.

Processor datasheets are available at http://www.atmel.com/devices/SAM3A8C.aspx

Modem





GPS Module



Quectel L76 GPS/GLONASS Module

- Multi-MGSS engine for combined GPS, GLONASS and QZSS
- Easy[™], self-generated orbit prediction for instant positioning fix
- Assisted-GPS to enable fast Time-To-First-Fix (TTFF)
- Ultra low tracking power consumption 18mA
- Always Locate[™], an intelligent algorithm for power saving
- 99 acquisition / 33 tracking channels, up to 210 PRN channels
- Supports DGPS, SBAS(WAAS/EGNOS/MSAS/GAGAN)
- Anti-Jamming, Multi-tone Active Interference Canceller



Quick Start Guide

Install Arduino IDE

The Arduino IDE is an integrated development environment used for Opentracker. If you plan to modify the program code or write your own there is no way around it.

Please note:

The tracker comes pre-programmed, if you only want to get started tracking just skip this step.

Opentracker requires **Arduino IDE 1.5.7** or later. The download should be just below 100Mb while downloading the installer and the installation process you may move on the next steps.

Please download latest Version here: http://arduino.cc/en/Main/Software

Insert SIM Card

Opentracker has got one Micro SIM slot. Larger SIM cards can be cut into micro SIM in any Store that sells SIM Cards or Mobile phones.

1. Unlock slot



2. Open cover



3. Insert SIM



4. Close slot and lock it



Please note:

For your convenience the SIM PIN should be deactivated.

If this is not an option, the SIM PIN has to be entered into the "tracker.h" and flashed into the Tracker. Before adding the tracker to the user web interface.

Connect Antennas

Take the Antenna ends, plug them one after another onto the Antenna connector on opentracker and turn the Antenna cable connector **clockwise**. Ensure to connect the antennas tightly.

Make sure to plug the GPS Antenna into the connector labeld GPS here shown orange and the GSM.

Make sure to plug the GPS Antenna into the connector labeld GPS here shown orange and the GSM antenna into the connector labeled GSM, here shown in blue.





Connect USB Cable

Use a micro USB Type B cable and plug it into the board as shown in the picture below. This is an optional step. Only necessary if new software has to be installed or developed.



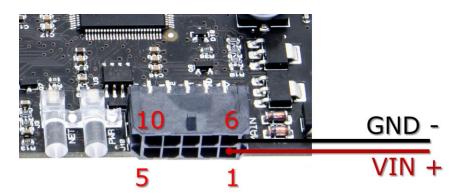
Connect MOLEX Cable

- 1. Ensure the Latch on the connector is faced up as shown in the picture below.
- 2. Push the connector until it clicks.



Connect Power source

Opentracker supports Supply voltages from 9 to 32 Volts DC. Please connect Positive (+) to Pin 1 and Negative (-) to Pin 6.





Start up the tracker

Please ensure to insert the correct data, as wrong information can cause higher costs and even be a source of connection problems.

Setup APN

Send SMS message to the inserted SIM card number to configure APN for your GSM provider:

```
#pass,apn=APN_NAME
```

Example:

```
#pass,apn=internet
```

The module will reply with the following response:

```
APN saved
```

Send 2 SMS messages to the inserted SIM card number to configure APN username and password (optional for some GSM providers):

```
#pass,gprsuser=APN USERNAME
#pass,gprspass=APN_PASSWORD
```

Example:

```
#pass,gprsuser=guest
#pass,gprspass=guest
```

The module will reply with the following response:

```
APN username saved
APN password saved
```

Change SMS password

Optionally, change SMS password by sending following SMS command:

```
#pass,smspass=NEW_PASSWORD
```

Example:

```
#pass, smspass=mynewpass
```

Please note:

Depending on the status of the tracker it may take a while until the SMS response will be sent.

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SMS Commands

Send SMS message to GPS tracker for initial configuration. Unit will accept only one command at a time and send reply on successful command execution.

Command	Syntax	Example	Reply
Set APN	#PASS,apn=NEWAPN	#pass,apn=internet	APN saved
Set APN Username	#PASS,gprsuser=NEWUSERN	#pass,gprsuser=guest	APN username saved
Set APN Password	#PASS,gprspass=NEWPASS	#pass,gprspass=guest	APN password saved
Set SMS Password	#PASS,smspass=NEWSMSPASS	#pass,smspass=newpass	SMS password saved
Set Sending Interval (sec)	#PASS,int=INTERVAL_SECONDS	#pass,int=60	Interval saved
Set SIM Pin	#PASS,pin=NEW_PIN	#pass,pin=1234	PIN saved

Register

To use the web interface every user has to register at http://opentracker.tigal.com/register.php with your tracker's IMEI number and start monitoring.



To register an account you need a valid IMEI number. You can find IMEI number displayed on your tracker hardware. Your tracker must be configured to establish GPRS or SMS connection to Tigal GPS Service server.

If the following ERROR is shown please double check your IMEI Number and make sure the tracker is running with connected Antennas and valid SIM card. To register, the tracker needs to be connected to the Server at least once.



To register an account you need a valid IMEI number. You can find IMEI number displayed on your tracker hardware. Your tracker must be configured to establish GPRS or SMS connection to Tigal GPS Service server.



External I/O

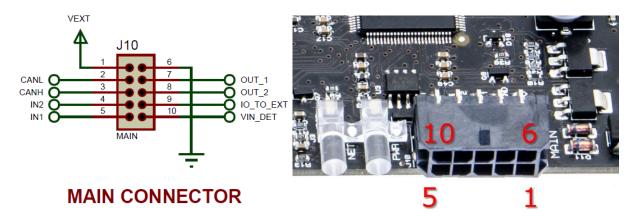
Main Connector Type

We use the Molex 0430451006 Connector on our board.

Micro-Fit 3.0™ Family

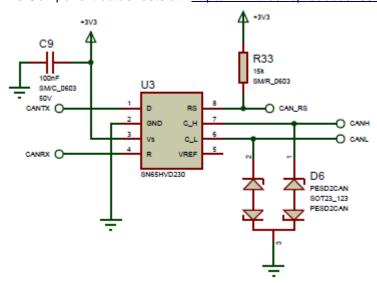
- Fully isolated contacts
- Full polarization
- Positive locks
- 3.00mm (.118") Pitch
- Up to 5.0A per circuit
- 600V AC rating
- UL 94V-0, CSA, TUV approved

Main Connector Pin assignment



CAN BUS Interface

Opentracker features a standard CAN Bus interface on the main connector. The CAN bus needs a termination resistor (typical 120 Ohm) which is not onboard and will have to be set by the user. We are using the Ti SN65HVD230 CAN Transceiver. For more info and electrical specifications refer to the Component datasheets at: http://www.ti.com/product/sn65hvd230

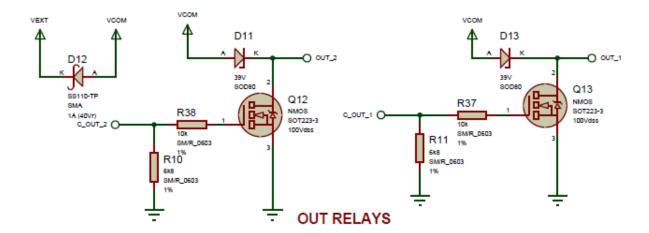


Using CAN

We provide example code in our github repository at https://github.com/TIGAL/OpenTracker .



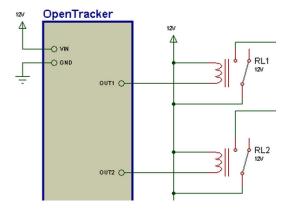
Open Collectors (relay connection)



Operating conditions		
	MIN	MAX
Switching voltage	0VDC	32VDC
Switching current	-	500mA

In this example were using relays with a rated switching voltage of 12VDC. Also the 12V is used to be switched, meaning were will turn on/off 12V rated devices like Lights/Motors/Horns etc.

To do that you will need to connect the first spool contact to 12V and the second to Opentracker as shown in the picture below.



Once the command is given to switch the relay the PIN OUT1/OUT2 will be switched to ground internally so current can flow and the relays can switch.

Hands on recommendation for Relay usage.

Only use car relays and certified cables inside vehicles!





A relay socket will ensure proper connection!



 Don't do it yourself if you are unsure what you are doing. Ask a car mechanic to do this connections for you instead.

Please note:

It is not our responsibility to ensure you connect the relay the appropriate way. Always ensure you read the specifications of the relay you intend to use and the devices you want to operate.

NEVER, work on circuitries under voltage. ALWAYS, remain within the manufacturers specifications.

Using the Relay outputs (OUT1 / OUT2)

This example shows how to initialize the outputs and switch them on and off.

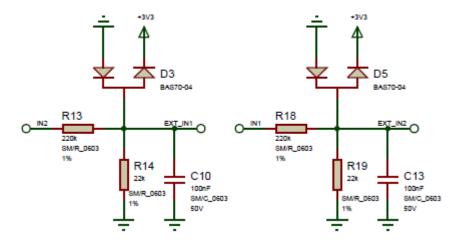
```
1. void setup() {
2. // Relay output
3.
       pinMode(PIN_C_OUT_1, OUTPUT); // Initialize pin as output
       digitalWrite(PIN_C_OUT_1, LOW); // Set PIN LOW
4.
5.
       pinMode(PIN C OUT 2, OUTPUT); // Initialize pin as output
6.
       digitalWrite(PIN C OUT 2, LOW); // Set PIN LOW
7. }
8.
9. void loop() {
10.
11.
     digitalWrite(PIN_C_OUT_1, HIGH);
                                      // switch the relay on
12. digitalWrite(PIN_C_OUT_2, HIGH); // switch the relay on
13.
14.
     delay(3000); // wait
15.
16.
     digitalWrite(PIN_C_OUT_1, LOW); // switch the relay off
                                      // switch the relay off
17.
     digitalWrite(PIN_C_OUT_2, LOW);
18.
19.
     delay(3000);
                               // wait
20.}
```



Inputs

The two inputs on the Main Connector (IN1 and IN2) are analog inputs and are able to measure voltages up to 32 volts.

Operating conditions			
Analog input Resolution (Vpin = Vinput * 22 / (220+22))	8 bit	8 bit	
	MIN	MAX	
V input	0VDC	32VDC	



Using the Inputs (IN1 / IN2)

This example shows how to read the analog inputs on the Main Connector (External IO) and print the output to the debug port.

```
1.
      #define DEBUG 1
                               //enable debug msg, sent to serial port
2.
     #define debug_port SerialUSB
3.
4.
     #ifdef DEBUG
5.
       #define debug_print(x)
                                debug_port.print(x)
6.
     #else
7.
       #define debug_print(x)
8.
     #endif
10. // Variables will change:
int outputValue;
12. int sensorValue;
13.
14.
15. void setup() {
16. // put your setup code here, to run once:
17.
18. }
19.
20. void loop() {
21.
22.
23. // Read IN1 Value
24.
         // read the analog in value:
25.
         sensorValue = analogRead(AIN_EXT_IN1);
          // map it to the range of the analog out:
26.
27.
         outputValue = sensorValue * (242.0f / 22.0f * ANALOG_VREF / 1024.0f);
28.
```



```
29.
           \ensuremath{//} print the results to the serial monitor:
           debug_print(F("IN1 = " ));
30.
31.
           debug_print(outputValue);
32.
           debug_print(F("V ("));
33.
           debug_print(sensorValue);
           debug_print(F(")"));
debug_port.println(" ");
34.
35.
36.
37. // Read IN2 Value
           // read the analog in value:
           sensorValue = analogRead(AIN_EXT_IN2);
39.
40.
           // map it to the range of the analog out:
41.
           outputValue = sensorValue * (242.0f / 22.0f * ANALOG_VREF / 1024.0f);
42.
43.
           // print the results to the serial monitor:
44.
           debug_print(F("IN2 = " ));
45.
           debug_print(outputValue);
46.
           debug_print(F("V ("));
47.
           debug_print(sensorValue);
           debug_print(F(")"));
debug_port.println(" ");
48.
49.
50.
51.
           delay(1000);
52.}
```

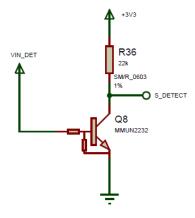
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Voltage detection VDET (ignition detection)

The voltage detection is designed to give feedback about the power status. If the Pin VDET is connected to the Ignition line of a car the Tracker is able to detect a logical 1 (Ignition off) or a logical 0 (ignition on) on S_DETECT. This is useful to put the tracker asleep or wake it up. VDET is a Digital input.

Operating conditions	VDET Logic 1 (ignition off)		VDET Logic	0 (ignition on)
	MIN	MAX	MIN	MAX
V input	0VDC	< 0,7VDC	> 2VDC	32VDC



Using Ignition detection (VDET)

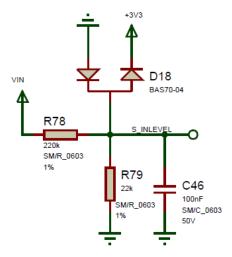
The ignition detection is a simple Input to detect if the vehicle is started. By adding code the user can define what to do when ignition is turned on / off. In this example the Tracker will print a string to the debug port.

```
//enable debug msg, sent to serial port
2.
    #define debug port SerialUSB
3.
4.
      #ifdef DEBUG
5.
        #define debug print(x) debug port.print(x)
6.
7.
        #define debug_print(x)
8.
      #endif
9.
10.
11. void setup() {
12.
13. // Ignition detection
       pinMode(PIN_S_DETECT, INPUT); // Initialize pin as input
14.
15.
16.}
17.
18. void loop() {
19.
20. // Check If Ignition is on
21. if (digitalRead(PIN_S_DETECT) == LOW)
22. debug_print(F("Ignition detected!")
        debug_print(F("Ignition detected!"));
23.}
```



Battery monitoring (AIN_S_INLEVEL)

Opentracker hast got the possibility to monitor the input voltage. This is done via the power input (VIN) and no additional cables have to be connected to the tracker.



Using Battery Monitoring

The following example shows how to measure the Supply voltage and print it to the debug port.

```
//enable debug msg, sent to serial port
2.
   #define debug_port SerialUSB
3.
      #ifdef DEBUG
4.
        #define debug print(x) debug port.print(x)
6.
      #else
        #define debug_print(x)
7.
8.
    #endif
9.
10. // Variables will change:
11. int outputValue;
12. int sensorValue;
13.
14.
15. void setup() {
16. // put your setup code here, to run once:
17.
18. }
19.
20. void loop() {
21.
22.
23. // Read VIN Value
24. // read the analog in value:
25.
          sensorValue = analogRead(AIN S INLEVEL);
26.
          // map it to the range of the analog out:
27.
          outputValue = sensorValue * (242.0f / 22.0f * ANALOG_VREF / 1024.0f);
28.
29.
          // print the results to the serial monitor:
          debug_print(F("VIN = " ));
30.
31.
          debug_print(outputValue);
32.
          debug_print(F("V ("));
          debug_print(sensorValue);
33.
34.
          debug_print(F(")"));
35.
          debug_port.println("
36.
37.
          delay(1000);
38.}
```



Customizable EXT PIN

Using EXT PIN

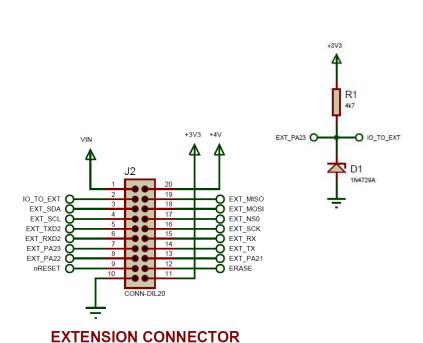
The EXT Pin on the main connector has no function. It is routed to the internal I/O connector. This may be used for anything the user desires. For example with a 1-wire communication or additional analog lines. Simply connect the IO_TO_EXT Pin on the Internal I/O pin header to your custom setup.

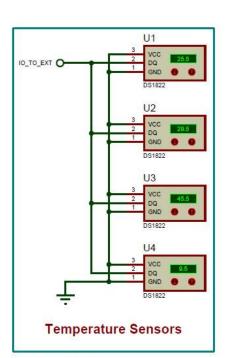
Please note:

When connecting any Internal I/O Pin to the IO_TO_EXT that those have 3.3V levels and are directly connected to the MCU. We recommend to protect the pin against overvoltage.

Example usage - One Wire

In this example four DS1820 Temperature sensors are driven in 1-wire parasite power mode. Including basic I/O protection with a 3.6V Zener diode (D1).





Outside Opentracker



LEDs

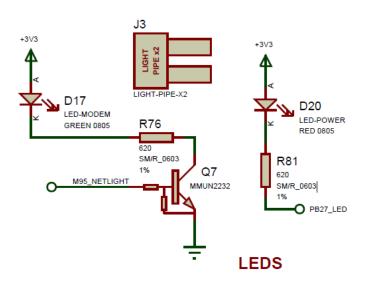
Opentracker has two LEDs for status indication. The Green LED named NET indicates the network status of the M95 modem and cannot be used for other purpose as connected directly to the GSM Modem. The Red LED can be programmed to indicate various information.



Using the LEDs

PWR LED (red)

The power LED can be programmed. Please see below the Arduino Example:



```
1.
      #include <avr/dtostrf.h>
2.
   void setup() {
3.
4.
5.
      //setup led pin
6.
      pinMode(PIN_POWER_LED, OUTPUT); // Set LED as Output
7.
      digitalWrite(PIN_POWER_LED, LOW); // Set LED initially off
8. }
9.
10. void loop() {
11.
12.
      // Switch the Power LED
13.
      digitalWrite(PIN_POWER_LED, HIGH);
14.
      delay(800);
15.
      digitalWrite(PIN_POWER_LED, LOW);
16.
     delay(800);
17.
18.}
```

NET LED (green)

This LED is just used by the M95 modem for network feedback and directly connected to the M95 Pin NETLIGHT.

State	Module function
off	The module is not running
64ms on / 800ms off	The module is not synchronized with network (no network)
64ms on / 2000ms off	The module is synchronized with network (has network)
64ms on / 600ms off	GPRS data transfer is ongoing

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Internal I/O

The Internal I/O 20-pin Expansion connector is a standard 2.54mm Pin header which is not populated. It features the following pinout:

- 1 x SPI
- 2 x UART
- 1 x I2C
- Analog
- PWM
- GPIO
- (nReset)
- (Erase)
- 3.3V
- 4V
- VIN
- GND

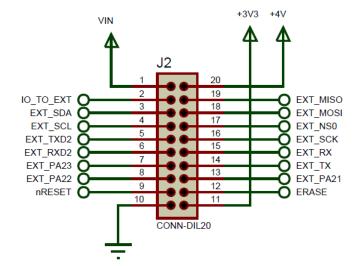
PLEASE NOTE:

IMPORTANT NOTE!

The I/O voltage levels are not 5V tolerant! Only use 3.3V levels!

The internal I/O are left for custom Expansions done by the user to add functionalities used in special applications.

Schematic



EXTENSION CONNECTOR

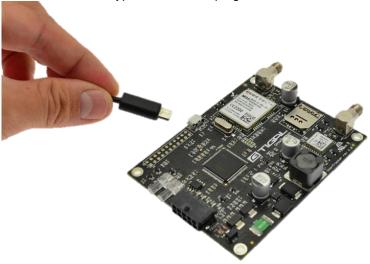


USB Interface

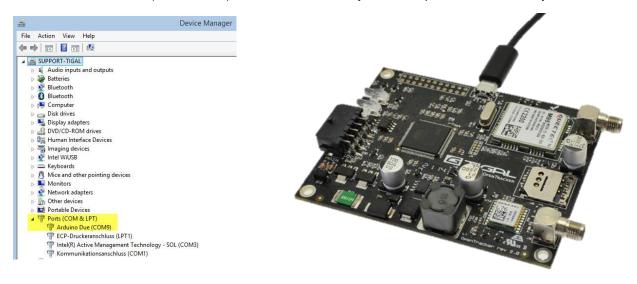
The USB connector is used to program and debug the Opentracker board.

To be able to communicate with the tracker via USB the tracker needs to be connected to a power supply as well.

- 1. Install Arduino IDE 1.5.7 or later on the workstation used.
- 2. Use a micro USB Type B cable and plug it into the board.



3. If the drivers have been installed correctly can be checked with the device manager (Windows only) When board is powered up and the USB cable is connected Opentracker will be recognized as Arduino DUE in section Ports (COM & LPT) as shown below. Only the COM port number will vary.



Please note:

If you encounter troubles with the USB driver we recommend to read the following pages: http://arduino.cc/en/Guide/ArduinoDue#toc8

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JTAG Interface

Opentracker has got a JTAG interface which may be used for programming and debugging. The JTAG connector is a not populated 10-pin 0.05 inch step pinheader.

The recommended Debugger is the Atmel SAM-ICE for Atmel SAMA5, SAM3, SAM4, SAM7 and SAM9 ARM® core-based microcontrollers in connection with ARM-JTAG-20-10 connector Adapter from Olimex.

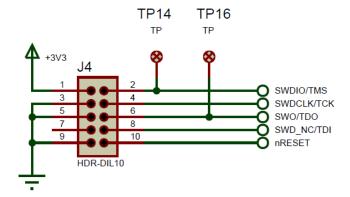
More info at:

Atmel SAM-ICE http://www.atmel.com/tools/atmelsam-ice.aspx?tab=overview
ARM-JTAG-20-10 https://www.olimex.com/Products/ARM/JTAG/ARM-JTAG-20-10/





Schematic





Software

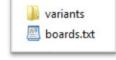
Arduino IDE

If you just want to use Opentracker to Track your device you do not need to do these steps. It is all there and configured for this use. But if you want to take advantage of all IO and aditional features follow the instructions below and you are ready to develop your own software with Arduino IDE.

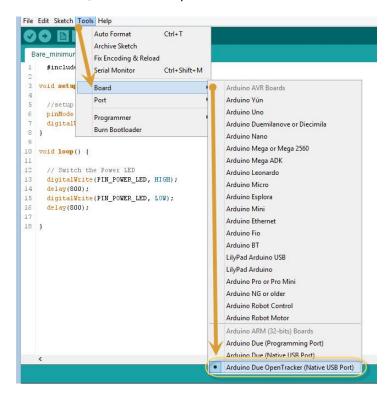
Adding Opentracker 2 as Board to Arduino IDE

In the Zip file "Arduino Startup Files" a Folder called "ArduinoIDE Integration" can be found. It contains folders and text files.

- 1. Select the folder and the files within ArduinoIDE Integration.
- Copy the folders and files into your Arduino Installation folder <u>Arduino\hardware\arduino\sam</u>. Replace the existing files. In most cases this will be:



- C:\Program Files (x86)\Arduino\hardware\arduino\sam
- Once the copy process is done Arduino IDE can be opened.
 If the board "Arduino Due OpenTracker" is listed in Menu "Tools --> Boards" all went correctly.

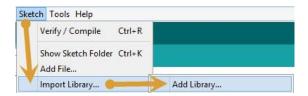


Installing necessary Libraries

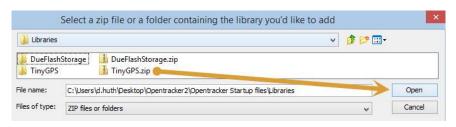
Also the Zip file "Arduino Startup Files" a Folder called "Libraries" can be found. It contains two *.zip files.

In Arduino IDE, click on "Sketch → Import Library" → Add Library"





2. Navigate into the Folder "Libraries" and select "TinyGPS.zip"



3. Repeat the same for the file "DueFlashStorage.zip"

Increase the serial buffer

Due to the huge amount and speed of sent serial data the serial buffer needs to be increased.

- 1. Please navigate to the following folder: C:\Program Files (x86)\Arduino\hardware\arduino\sam\cores\arduino
- 2. Open the file "RingBuffer.h" with a Text editor
- Change in line 28: #define SERIAL_BUFFER_SIZE 64 To #define SERIAL_BUFFER_SIZE 256
- 4. Save the file at the same location and file name.

Using Arduino IDE with Opentracker

Once the previous points in this chapter have been performed successfully the Arduino IDE is ready to use. We additionally provide examples on Github. Please review the repositories regularly at https://github.com/TIGAL/OpenTracker.

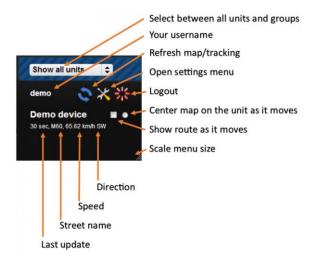


The Webinterface

After the registration process you will see a world map and a menu on the left side. In this example the Webinterface is using the Google Maps engine. Just scroll and zoom through the maps as you are used to from Google Maps.



The Menu options



The Settings menu

The Settings menu will support you to setup the Web interface and to manage your fleet for your requirements.

Basic settings





Add more units

In the settings menu "units" you may add more devices to your profile. Just type the IMEI of your device and click "Add new unit". Voila the new device will be shown in the map.

Please note:

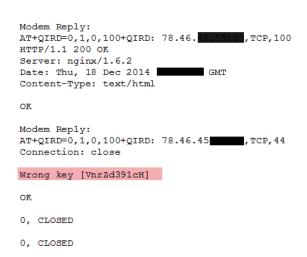
Before adding the unit to the web interface, the tracker must have been connected to the server before. Which means, switched on and connected to the network with functioning SIM card.

The tracker will send the server a message like "I am here, ready to be added!" If this succeeded the database will accept the IMEI (Tracker ID).



Change the Remote Password

The remote password should only be changed if you are willing to change the key in the source file "tracker.h" as well. If the key is only changed on one side (server or tracker) the communication will not work. When connecting the Tracker to a serial console may bring confidence if a connection is possible (shown below on the left).







Add and edit groups

With a growing number of devices you may want to group devices. Then you are able to quick select a group in the menu.



Reading the tracks

As you hover with your mouse over the device you can see details about:

- coordinates
- speed
- altitude
- direction
- adress
- · number of gps satellites
- time and date



You can also see which way the device was driving. Waypoints are created for every server update. Just decide how often the device sends information to the server via a simple text message (SMS).





Troubleshooting

Reset Soft bricked board - Flash locked

During development process it may happen the board will be bricked and compiler output will look like:

Please follow the below instructions to solve this.

How to Reset a Soft bricked board

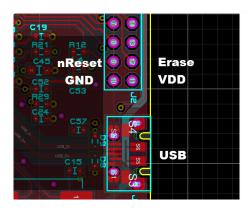
You can try to force a mass erase on the mcu flash. This is accomplished by:

- power ON
- short NRESET to GND and hold
- short ERASE to VDD and hold
- release NRESET
- wait a few seconds

You can also:

- power OFF
- short ERASE to VDD and hold
- power ON
- wait a few seconds

We placed NRESET and ERASE on the expansion connector and near VDD and GND, so that it's easy to just use a jumper or a clip to perform the above operations:





If the erase is successful you can reset the board again, or power cycle it, and connect the USB cable again.

You will have to change serial port setting on the Arduino IDE, before programming, because the COM port will change to the bootloader COM.



HTTP POST Message

Send data to the following server and with required format:

Hostname: tigalupdates.opengps.net

Port: 80

URL parameters: [imei] [key] [data]

• imei - IMEI of the GSM/GPS device, must be unique number per device.

Example: 312345006395040

 key - unique key for the device. This key can be configured through OpenGPS interface and must match for the device. In case key does not match, GPS data will not be accepted. Can be omitted for the initial connections.

For additional security, we highly recommend you use security keys for all your devices.

data - GPS data in the following format:
 UTC, latitude, longitude, hdop, altitude, fix, cog, spkm, spkn, date, nsat
 Data example: 123704.000,4725.9991N,01455.8212E,2.6,223.1,3,166.64,2.01,1.08,060812,05

Example explained:

- 123704.000 Time hhmmss.sss (GGA)
- 4725.9991N Latitude ddmm.mmmm (GGA)
- 01455.8212E Latitude dddmm.mmmm (GGA)
- 2.6 HDOP x.x (GGA)
- 223.1 Altitude x.x (GGA)
- 3 Fix (VTG) -
 - 0=Invalid Fix (data will not be logged by OpenGPS)
 - 2=2D fix
 - o 3=3D fix
- 166.64 Course over ground (COG) ddd.mm (VTG)
- 2.01 Speed over ground (km/h) (VTG) x.x (VTG)
 - Speed over ground (knots) (VTG) x.x (VTG)
- 060812 Date ddmmyy (RMC)
- 05 Number of satellites nn (GGA)

GGA,RMC,VTG refers to official NMEA line format.

You can send multiple DATA lines via POST separating them by New Line character (ascii:10).

Full example:

 $http://tigalupdates.opengps.net/index.php?imei=312345006395040\&key=test\&data=123704.000,3025.9991\\N,01655.8212E,2.6,223.1,3,166.64,2.01,1.08,060812,05$



Operational Conditions

	MIN	Typical	MAX
Operating temperature	- 35°C		+ 80°C
Storage temperature	- 45°C		+ 90°C
Power supply	+ 9 VDC	12 VDC / 24 VDC	+ 32 VDC
Supply current (I GSM/GPS on @ 12V / 24V)		400 mA / 200 mA	
Supply current (I GSM/GPS off @ 12V / 24V)		100 mA / 50 mA	
Supply current (I sleep @ 12V / 24V)		5 mA	
Internal Expansion I/O voltage level	0 VDC	-	3.3 VDC
External I/O VDET (I switch)	0 VDC	-	32 VDC
External I/O IN1 / IN2	0 VDC	-	32 VDC
External I/O OUT1 / OUT2 (Vin switch)	0 VDC		32 VDC
External I/O OUT1 / OUT2 (I switch)			500mA



How to get support

Please feel free to contact us with any questions, queries or suggestions.

If your question is about technical support or troubleshooting for one of our products, we kindly ask you to first check our documentation for a possible solution.

If you cannot find the solution you are looking for then please write to support@tigal.com providing all possible details.



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