

blue PiraT2

GPS User Guide

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3. Overview

The "GPS" feature of the blue PiraT2 enables the following options:

- Logging GPS data with the data logger

This document refers to blue PiraT2 FW 01.09.01 and blue PiraT2 client version 1.9.1. Some features depending on model and feature license or may not be available in older versions. Software updates are frequently available in the blue PiraT Service Center. Please make sure to use current software.

4. System requirements

Control Unit

A Laptop or a PC is used to configure the devices by a software client. It also allows to save the recorded data and to use them offline.

blue PiraT2

The blue PiraT2 is an optimized data logger developed by Telemotive AG. The communication of bus systems and control units are monitored and relevant data can be recorded very precisely with the blue PiraT2. The collected data are stored on the blue PiraT2 and can be downloaded to a PC

A license is required to use the GPS ("Global Positioning System") feature. All steps can be performed only with a valid license.

If you want to use the GPS feature you have to connect the passive GPS antenna to the front connector of the blue PiraT2.

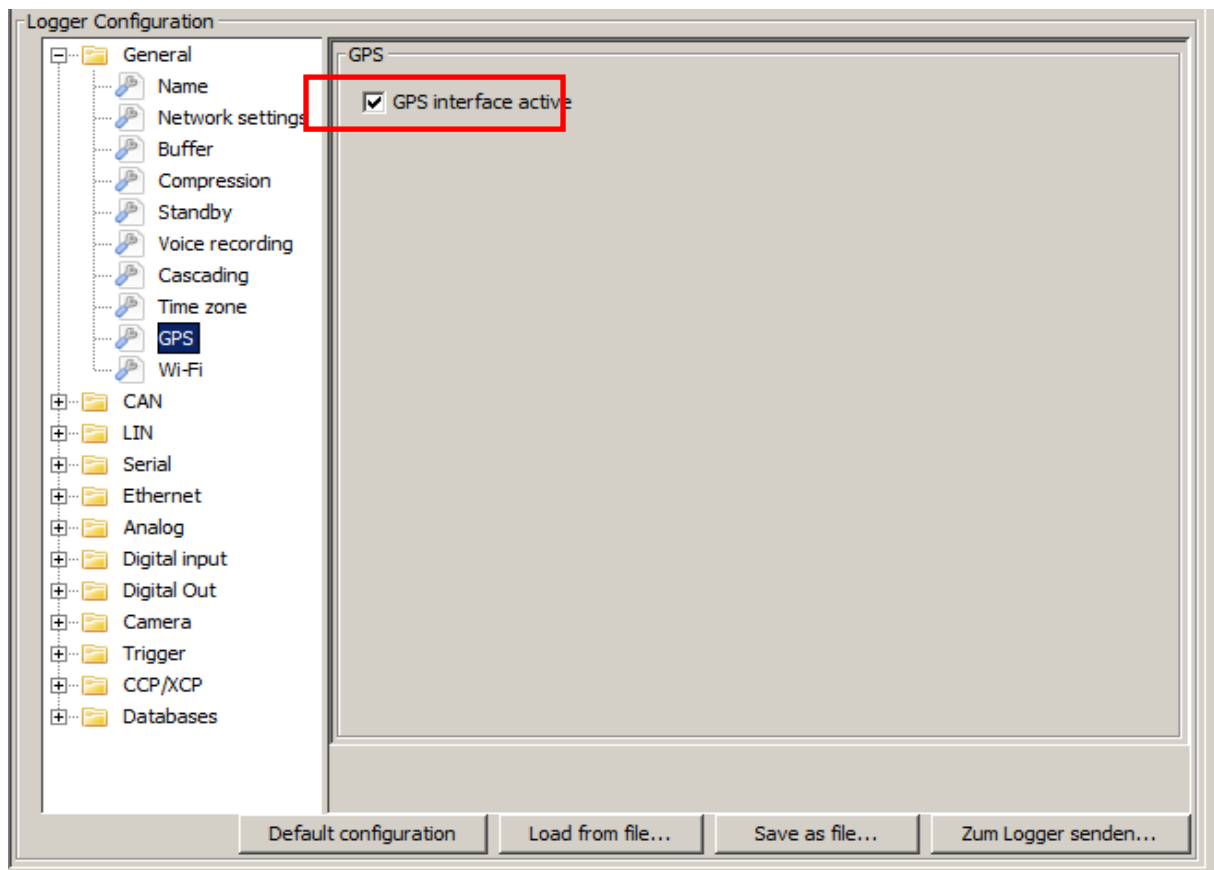
ATTENTION: The connector has to be bolt only by hand, NOT with any tools!



5. Configuring GPS

For the configuration of the GPS feature, a connection to the data logger is required. Please connect the data logger to your computer and start the client.

In the client please open the logger configuration and choose "GPS" from the selection tree sub menu "General". Here you can activate GPS for logging GPS data.



The complete data logger configuration can be managed by following buttons:

- Default configuration Load a default configuration
- Load from file Load data from a locally stored configuration file
- Save as file Save the current configuration to a local file
- Write to logger Send the configuration to the connected data logger

After the configuration has sent to the blue PiraT2 it is applied immediately.

6. Data Download & Converting

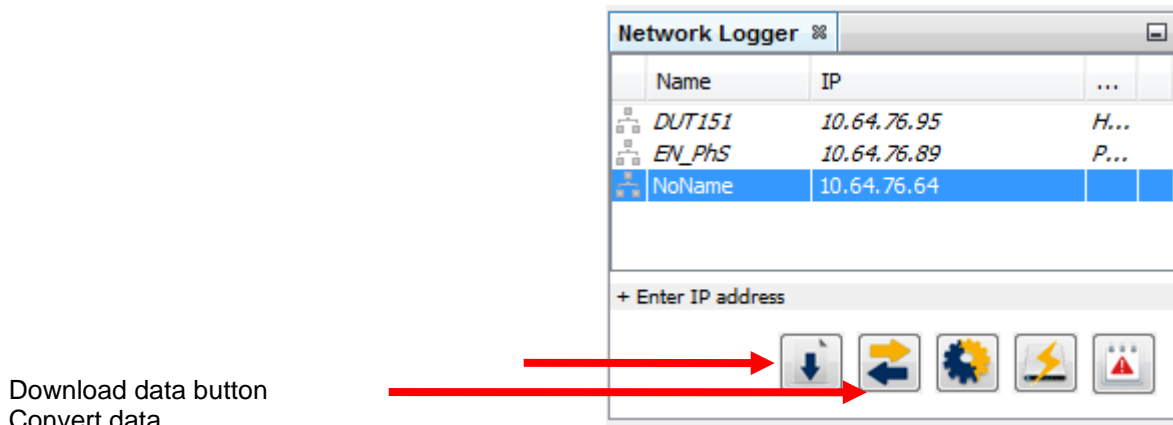
This chapter describes the data download only for GPS data. For more information about download and converting data please have a look at the blue PiraT2 user manual.

Step 1

For downloading data please start the client and connect to the blue PiraT2.

Step 2

A click on the “Download data” button opens the download dialog where you can download the data into an offline data set.



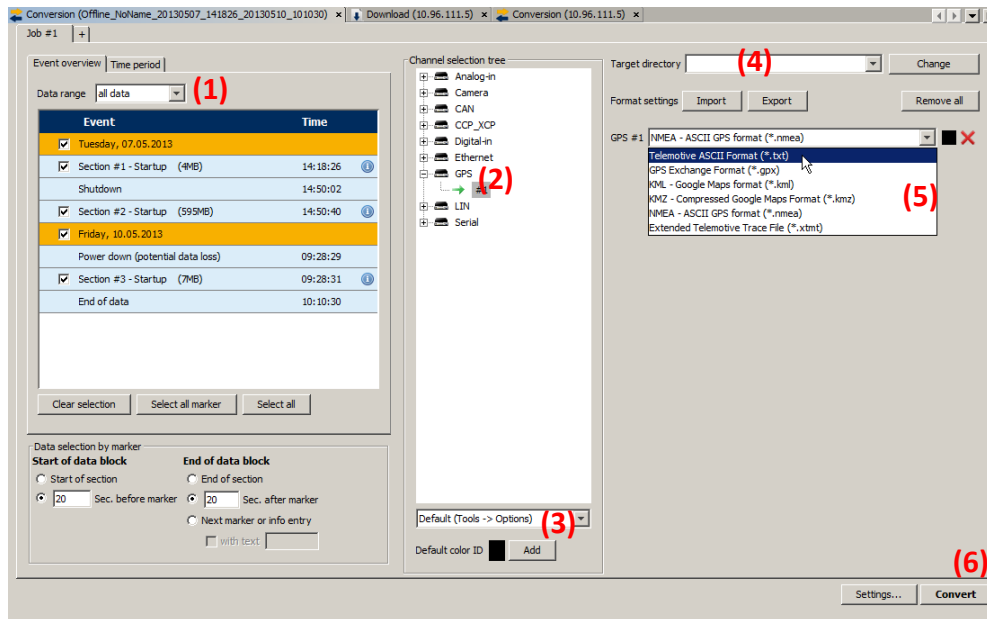
Step 3

To convert an offline data set or the data directly from the blue PiraT2 please press the “Convert data” button.

1. Select data from “Event” or “Time” Screen (1)
2. Select the GPS Channel (2)
3. Press Button Add (3)
4. Select Target directory (4)
5. Select the GPS Format which you want to convert to: (5)

Available formats to convert the GPS data:

- Telemotive ASCII Format
- GPS Exchange Format
- KML – Google Maps Format
- KMZ – Compressed Google Maps Format
- NMEA – ASCII Format
- Extended Telemotive Trace File



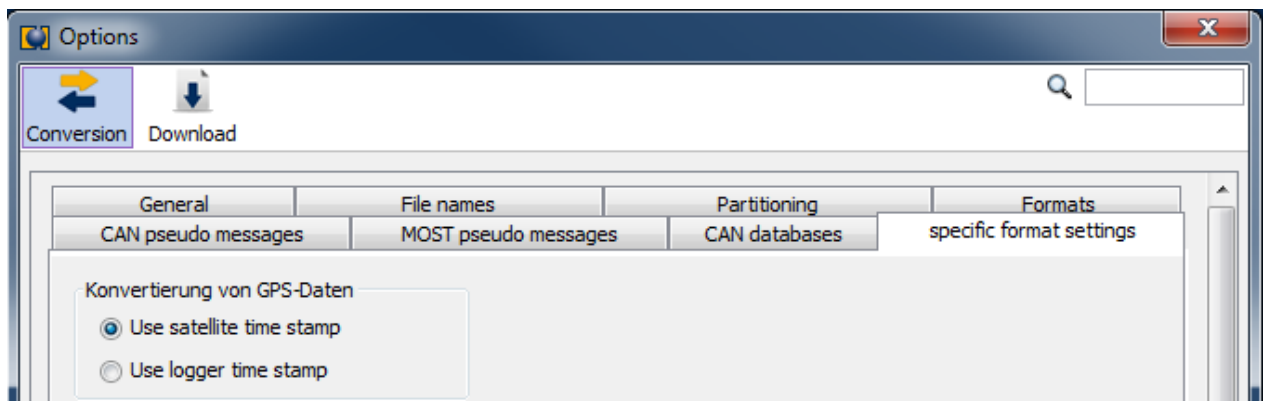
Optionally, you can press the “Settings...” button to define the timestamp of the converted data:

- Use satellite time stamp
- Use logger time stamp

Note:

The use of satellite time stamp is only available when you convert into GPX-, KML- and KMZ-format!

Due to the possibility of converting several signals into one file this option is not available in the other conversion formats so that the GPS-signals refer to the time stamps of the other signals in the converted file.



Step 4

Press the “Convert” button (6) to start the conversion of the selected GPS data into the selected format.

7. Additional Information

NMEA format → have a look at:

http://en.wikipedia.org/wiki/NMEA_0183

GPS exchange format → have a look at:

http://en.wikipedia.org/wiki/GPS_eXchange_Format

KML/KMZ Standard → have a look at:

http://en.wikipedia.org/wiki/Keyhole_Markup_Language
<https://developers.google.com/kml/documentation/kmzarchives>

8. Contact



Telemotive AG

Office München
Frankfurter Ring 115a
80807 München

Tel.: +49 89 357 186-0
Fax.: +49 89 357 186-520
E-Mail: info@telemotive.de
Web: www.telemotive.de

Vertrieb
Tel.: +49 89 357 186-550
Fax.: +49 89 357 186-520
E-Mail: sales@telemotive.de

Support
Tel.: +49 89 357 186-518
E-Mail: produktsupport@telemotive.de
ServiceCenter: <https://sc.telemotive.de/bluepirat>