

Adapter Board GPS to RS232 - Revision 2

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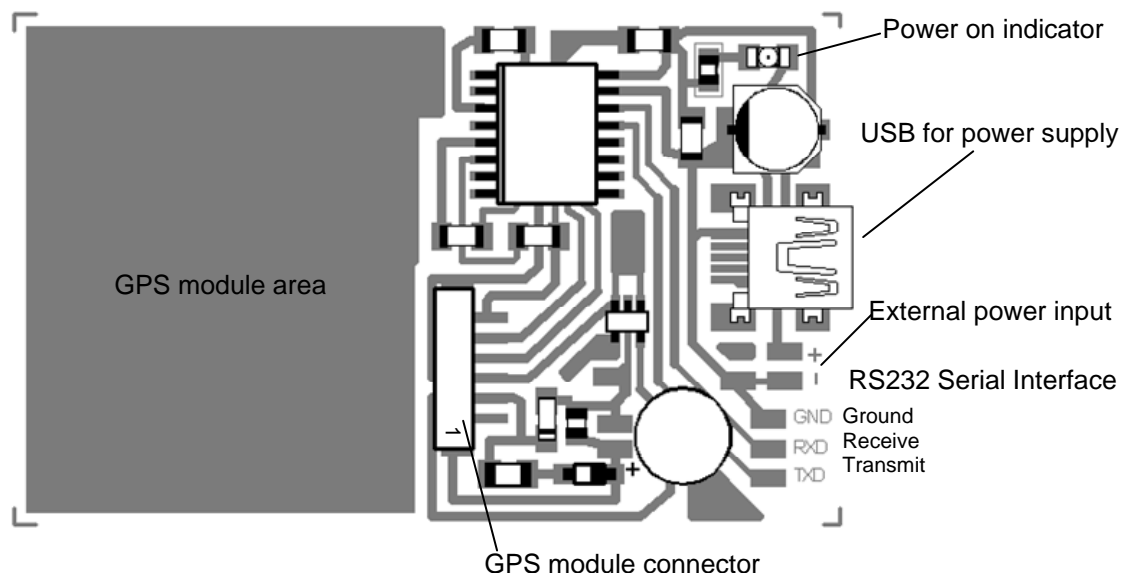
Overview

The purpose of this board is to interface a GPS receiver to the RS232 serial interface of a PC.

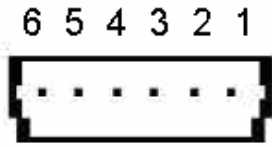
Features

- Universal GPS connector to support a wide range of GPS modules, and can be used for other serial devices as well (also for microcontrollers to communicate to a PC)
- Covers 5V and 3.3V supplied modules
- On board voltage regulation for 3.3V
- On board standby supply for GPS modules which do not have integrated battery backup power.
- High speed mode min. 230kbps
- Power supply over USB interface
- Power supply over additional user connector (5V +/-10%)
- Power-on indicator

Board Layout



GPS/Serial Connector Top View



- 1: Standby supply(3V)
- 2: 3.3V supply (regulated)
- 3: 5V supply (unregulated, but buffered)
- 4: TX
- 5: RX
- 6: GND

RS232 Serial connection

Connect GND to Sub-D Pin 5 (PC RS232 GND)
Connect RXD to Sub-D Pin 2 (PC RS232 RXD)
Connect TXD to Sub-D Pin 3 (PC RS232 TXD)

For terminal programs you may need to bridge the following signals at the PC sided RS232 connector (Sub-D 9) to allow a proper detection of the device:

Bridge pin 1 (CD) with 6 (DSR) and 4 (DTR)
Bridge pin 7 (RTS) with 8 (DTS)

Adapter Board GPS to RS232 - Revision 1

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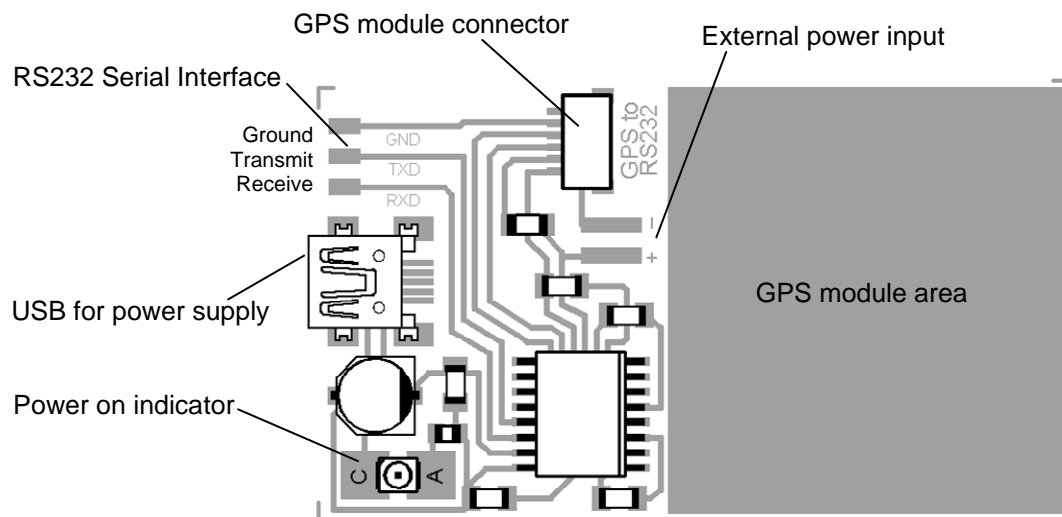
Overview

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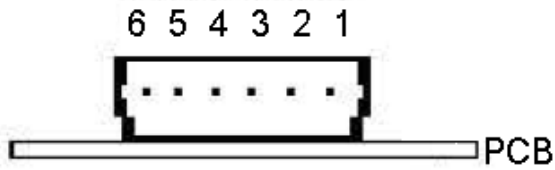
Features

- GPS connector is designed for the GlobalSat EM406 GPS module, but can be used for other serial devices as well (also microcontrollers to communicate to a PC)
- High speed mode min. 230kbps
- Power supply over USB interface
- Power supply over additional user connector (5V +/-10%)
- Board space for mounting the EM406 module with dual sided tape

Board Layout



GPS/Serial Connector Front View



- 1: GND
- 2: VCC
- 3: TX
- 4: RX
- 5: GND
- 6: not used

RS232 Serial connection

Connect GND to Sub-D Pin 5 (PC RS232 GND)
Connect RXD to Sub-D Pin 2 (PC RS232 RXD)
Connect TXD to Sub-D Pin 3 (PC RS232 TXD)

For terminal programs you may need to bridge the following signals at the PC sided RS232 connector (Sub-D 9) to allow a proper detection of the device:

Bridge pin 1 (CD) with 6 (DSR) and 4 (DTR)
Bridge pin 7 (RTS) with 8 (DTS)

Change History

We try to keep this manual up-to-date. Therefore changes and additions are made. You may want to check from time to time for updates so that you have the most recent issue available.

Revision Date	Changes
19. October 2007	Initial revision
12. March 2008	Included revision 2 board