

## Technical Documentation

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## A) Hardware

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### 1) List of components

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### 2) Connecting things together

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### 3) Pin usage

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## B) Software

%

### 1) The repository

%

### 2) Configuration settings

%

### 3) Serial configuration commands

Command	Explanation
a	Show all buffered free CAN_frames
z	Reboot (needed for all configuration changes except debug mode)
r	Reset configuration to default and reboot.
gxxx	Get free frame with id xxx
ixxx,yyyy	et ISO-TP frame with id xxx, PID yyyy
nxxx,config	set EEPROM configuration

xxx config

====

100 Set the flags configuration as hex as ssbbwwlldd (01010200ff)

ss: Serial over USB

00 for off, any other for on

bb: Bluetooth

00 for off, any other for on

ww: WiFi

00 for off, 01 for Station mode, 02 for Soft Access Point mode

For station mode a DHCP server is assumed

ll: Use leds

00 for off, ff for on

dd: Debug

00 for off, ff for on. A bit pattern can be used and added

- 01: show CANbus receive free CAN\_frame\_std
- 02: show CANbus receive ISO-TP CAN\_frame\_std
- 04: show Commands issued
- 08: show free frame Commands
- 10: show ISO-TP Commands

200 Set the Bluetooth name (CANSee)

201 Set the Bluetooth pin (1234, not implemented by the API!!)

300 Set the WiFi ssid for Soft Access Point mode (CANSee)

301 Set the WiFi password for Soft Access Point mode (CANSeeMe)

400 Set the WiFi ssid for Station mode (Home)

401 Set the WiFi password for Station mode (Password)

500 Set CANbus parameter for can0 in hex as sprctx

- sp: speed in 25 kbps increments. (0x14 for can0, 0x0a for can1)
- rx: Rx pin of transceiver (4 for can0, 0x12 for can1)
- tx: Tx pin of transceiver (5 for can0, 0x13 for can1)

Note that this is a very advanced setting and selecting pins that are internally used on your board (notably 6-11) will crash the board. Also pins 34 and up are input only.

501 Set CANbus parameter for can1 in hex as sprctx (see above).

Usage of the semi-secondary CANbus by switching the single controller to another pin pair is not supported and basically fails spectacularly.