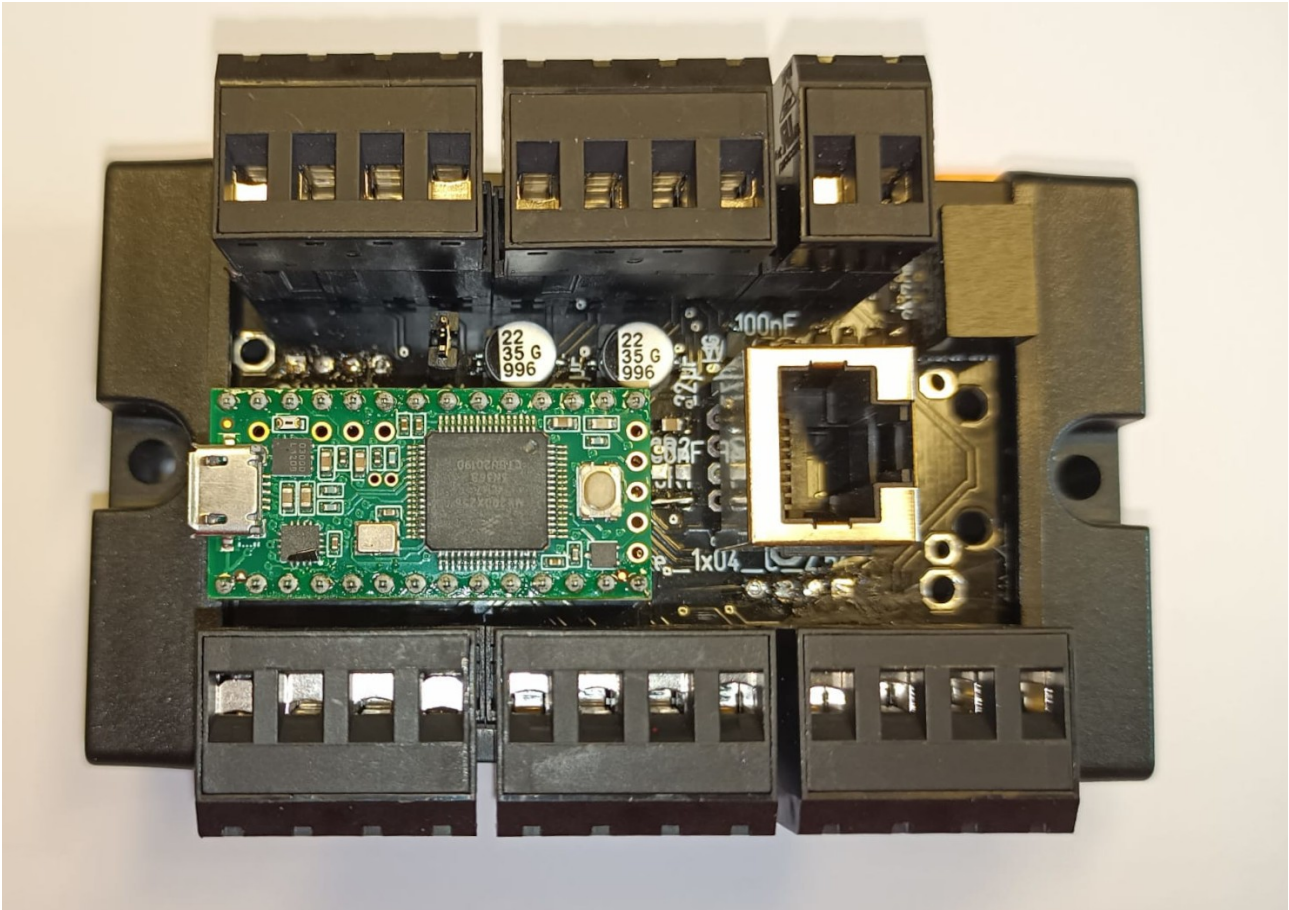


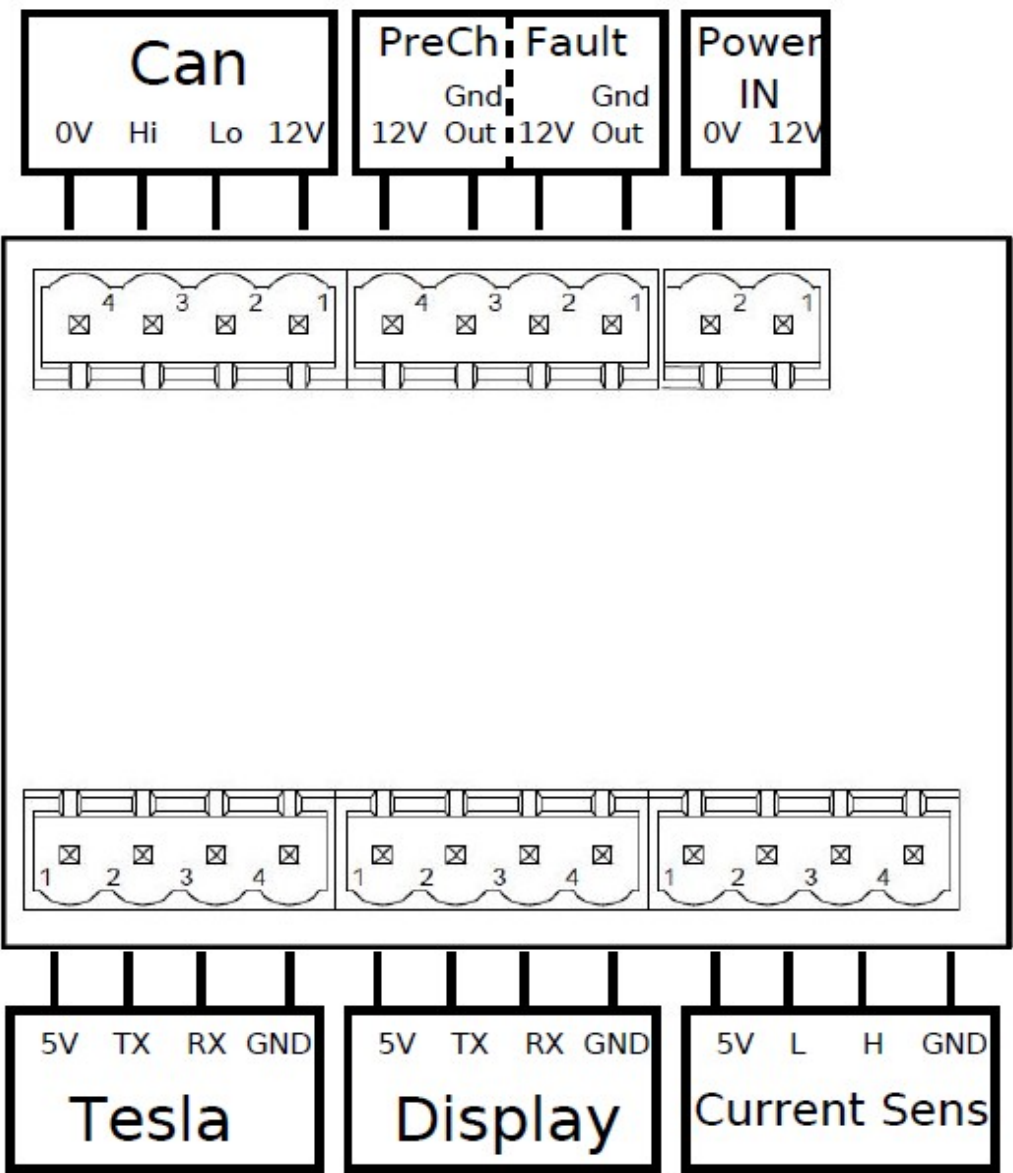
BLCKbms



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2 Overview



3 Interfaces for Second Life Batteries

The following interfaces are available with the BMS (see block diagram):

3.1 Tesla Interface

Connector BMS	Connector Tesla Modul
TX	1. Modul PIN 2/7
RX	Last Modul PIN 4/9
+5V	PIN 5
GND	PIN 3

3.2 Can Interface:

Mitsubishi Outlander:

Connector BMS	Modul 1-x (Outlander)	Last Modul (Outlander)
12V	PIN 4	PIN 4
GND	PIN 6	PIN 6
Lo	PIN 1	PIN 1 + PIN 8
Hi	PIN 5	PIN 5 + PIN 2

BMW I3

Connector BMS	First I3 Pin	Next I3 Pin
5V	PIN 7	PIN 1
GND	PIN 12	PIN 6
Lo	PIN 10	PIN 4
Hi	PIN 11	PIN 5

Victron Wechselrichter

Connector BMS	Victron RJ45	Aderfarbe Patchkabel
12V	PIN 2 + PIN 4	orange + blue
GND	PIN1 + PIN 5	blue/white + orange/white
Lo	PIN 8	brown/white
Hi	PIN 7	brown

4 Fault Output

This output switches in the event of overvoltage, undervoltage, overtemperature or undertemperature. With this output, the battery is to be switched off via a suitable switching device. The output (Out) is ground-switching. If a relay is connected, free-wheeling diodes have to be used.

5 PreCharge Output

6 Current sensor:

Connection Current Sensor: LEM DHAB S/161

Connector BMS	Connector	Description
L	D	Vout low current range
GND	C	GND
H	B	Vout high current range
5V	A	5V