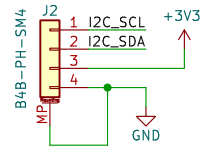


Libre Solar BMS for 3–16 cells

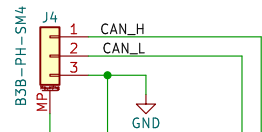
Based on TI bq76952 and ESP32-C3

Development funded by
EnAccess Foundation.
<https://enaccess.org>

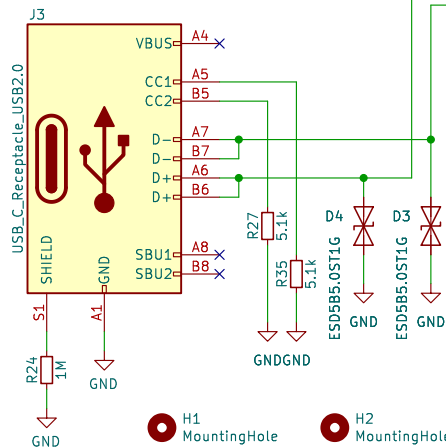
Internal I2C



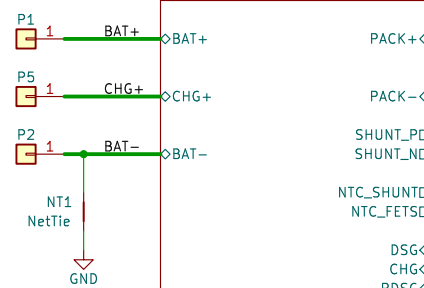
CAN / RS-485



USB

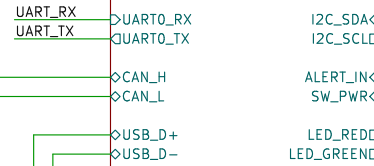


Power Part



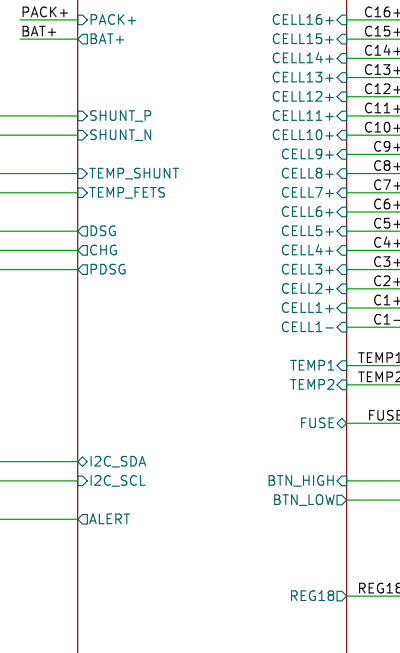
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ESP32-C3 MCU



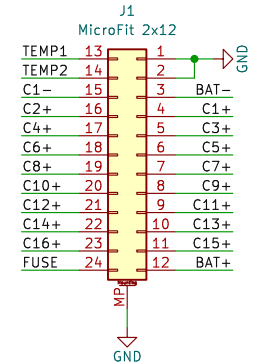
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BQ76952

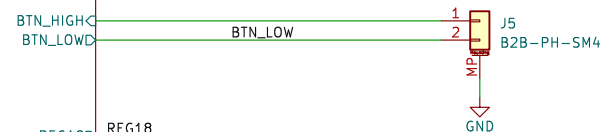


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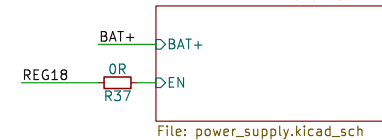
Cell Connector



On/Off button

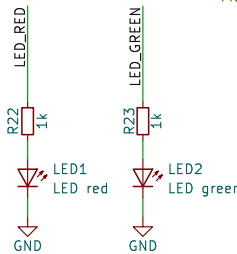
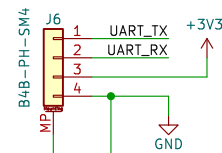


Power Supply



File: power_supply.kicad_sch

Serial



- H1 MountingHole
- H2 MountingHole
- H3 MountingHole
- H4 MountingHole
- H5 MountingHole
- H6 MountingHole



Libre Solar BMS C1

Libre Solar Technologies GmbH
Author: Martin Jäger

Website: <https://libre.solar>



Sheet:
File: bms-c1.kicad_sch

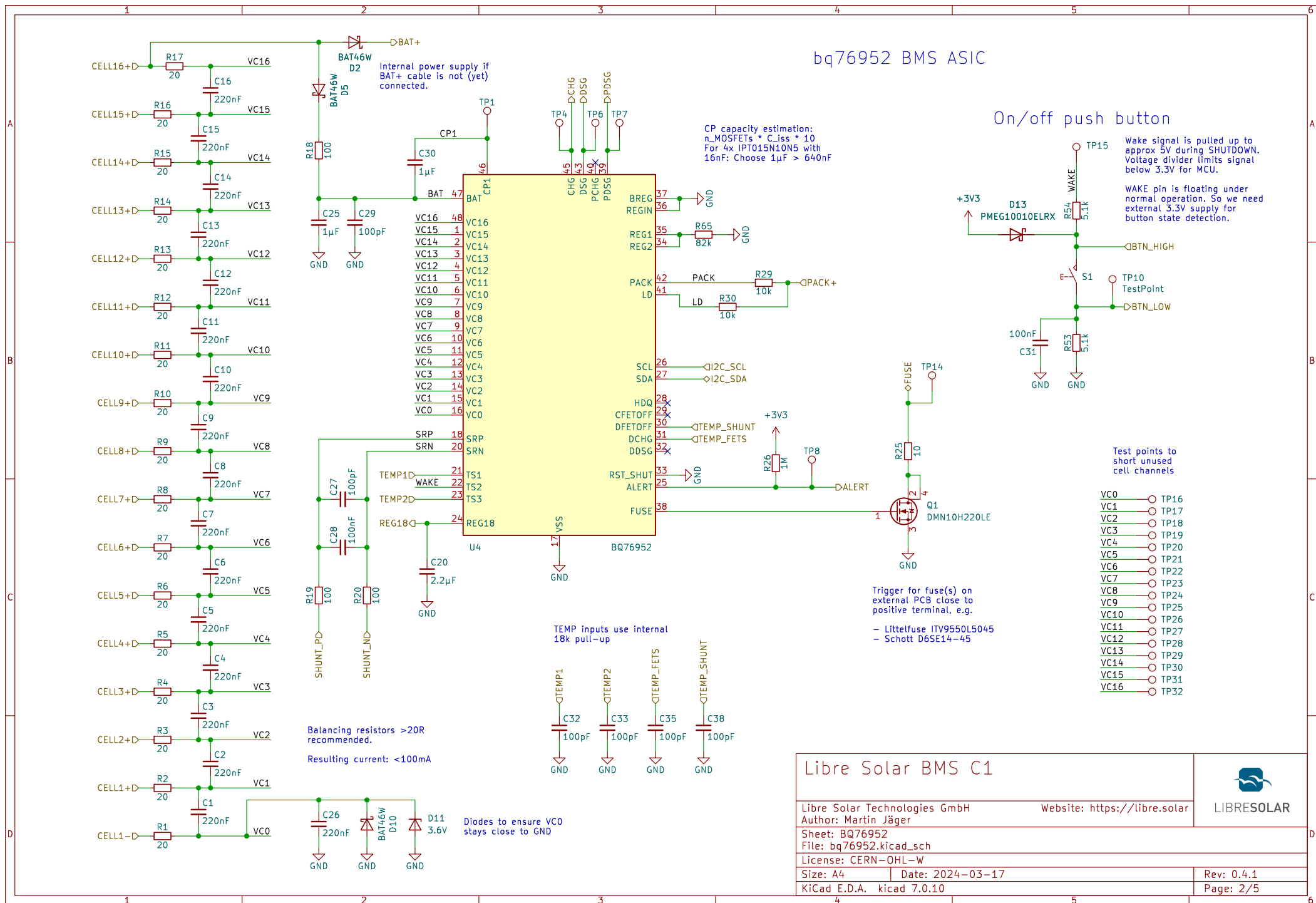
License: CERN-OHL-W

Size: A4 Date: 2024-03-17

KiCad E.D.A. kicad 7.0.10

Rev: 0.4.1

Page: 1/5



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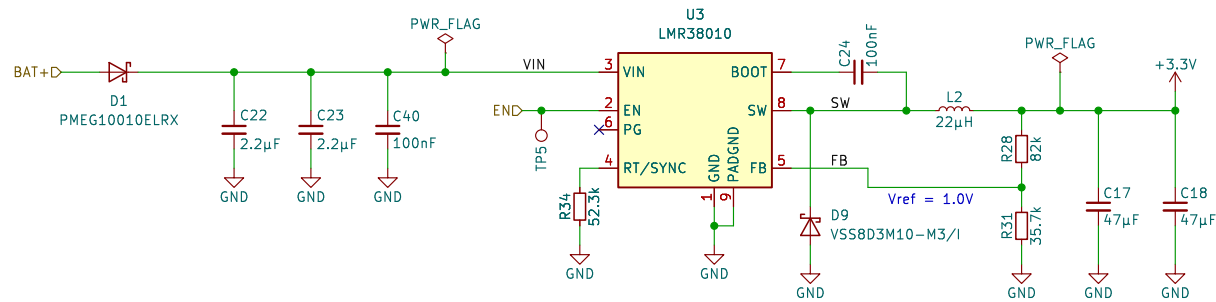
KiCad E.D.A. kicad 7.0.10

Rev: 0.4.1

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Battery to 3.3V (SMPS)

ESP32-C3 requires power supply with at least 500 mA



Layout for 500 kHz, 1A output

Libre Solar BMS C1

Libre Solar Technologies GmbH
Author: Martin Jäger

Website: <https://libre.solar>



Sheet: Power Supply
File: power_supply.kicad_sch

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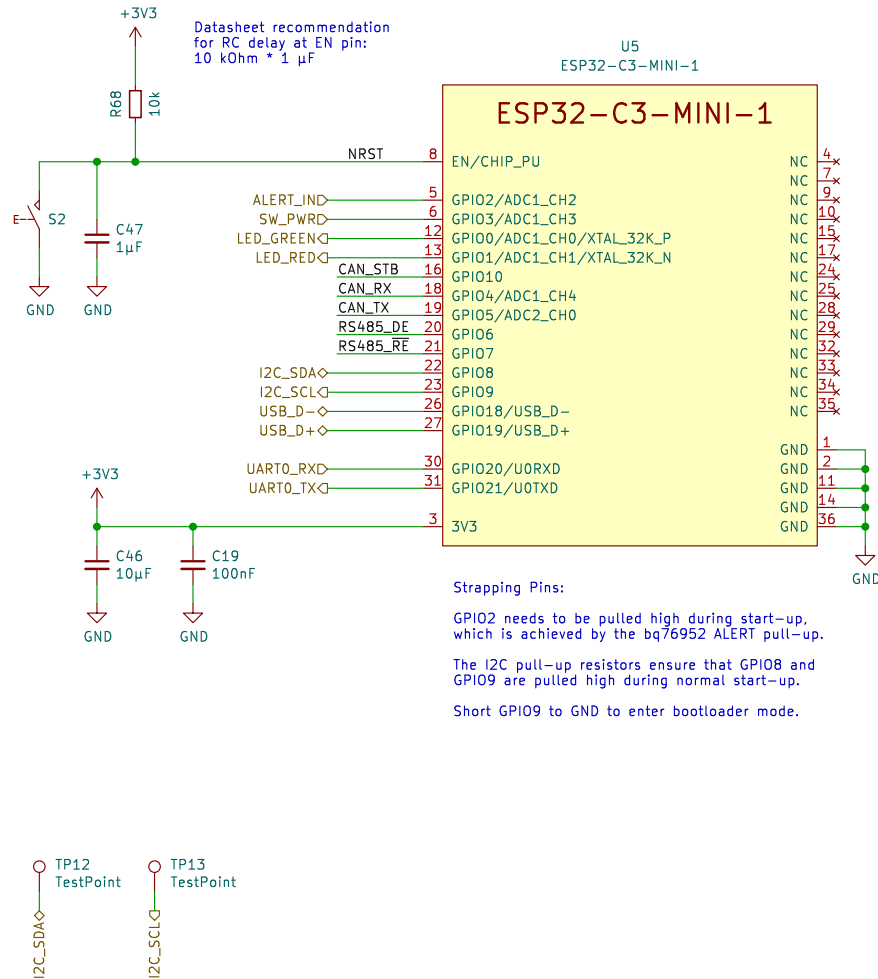
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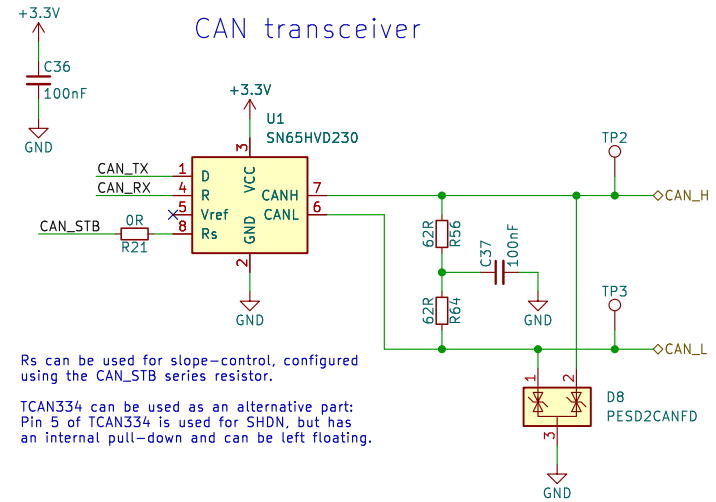
Rev: 0.4.1

Page: 3/5

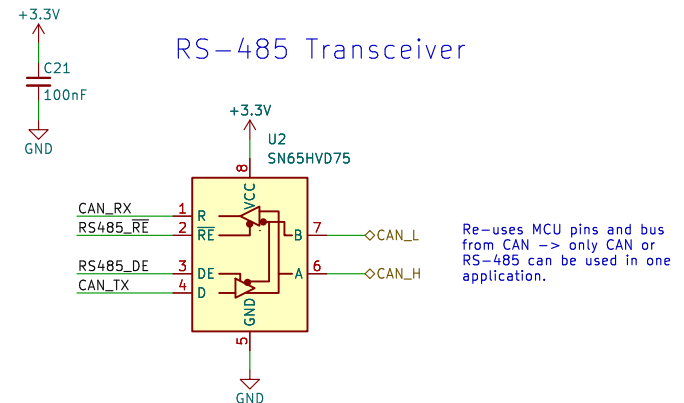
ESP32-C3 module



CAN transceiver



RS-485 Transceiver



Libre Solar BMS C1

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Author: Martin Jäger
Sheet: ESP32-C3 MCU
File: esp32-c3.kicad_sch

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Size: A4 Date: 2024-03-17

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Rev: 0.4.1
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