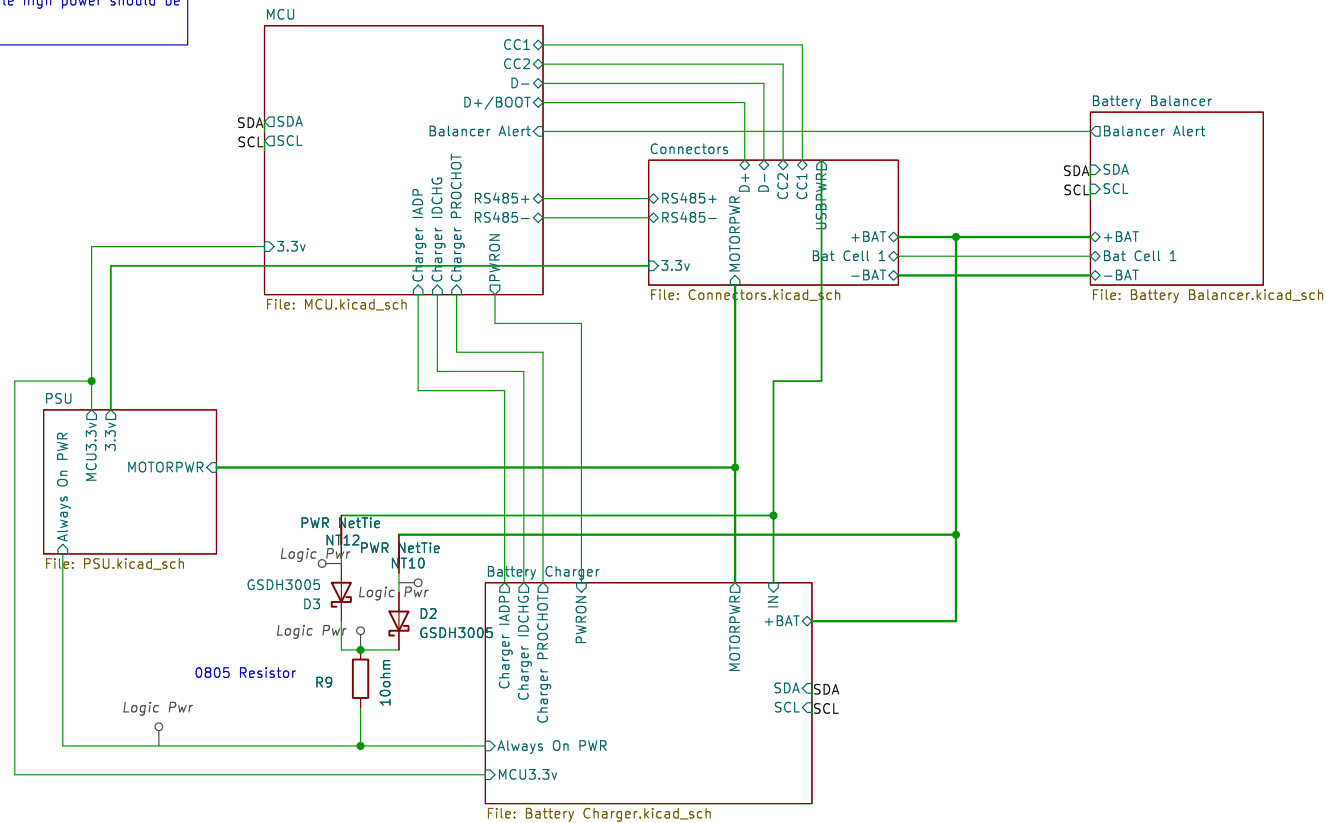


All capacitors (in my current setup) are Ceremic and X5r or X7r according to datasheet recommendations. All low power capacitors should be rated for 6.3v, while high power should be 16v

Several components are not orderable from JLCPCB, or cannot be assembled by them (the power edge connectors). So I have added DNP indicators on those

all mosfets I currently have are not on jlcpcb



I might want to find a better diode for blocking current, but 0.01ma leakage doesn't seem bad

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Author: Asher Edwards

Sheet: /

File: 2s 40A PSU and charger.kicad_sch

Title: CACKLE 2s 40A PSU & Charger

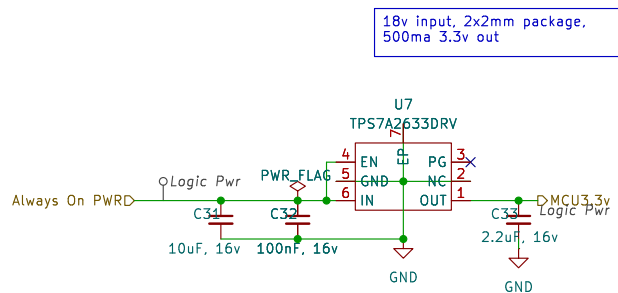
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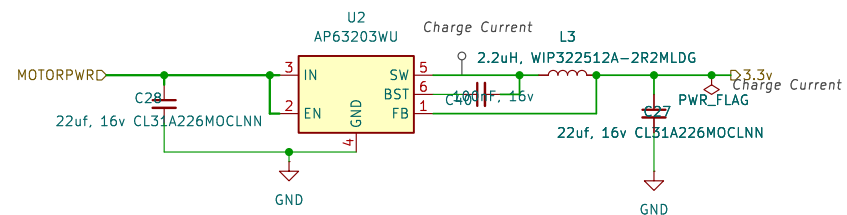
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Rev: V1

Id: 1/6



Onboard MCU 3.3v Supply, 100mA



Main 3.3v Supply, 2A

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Sheet: /PSU/

File: PSU.kicad_sch

Title: CACKLE 2s 40A PSU & Charger

Size: A4

Date: 2024-12-23

Rev: V1

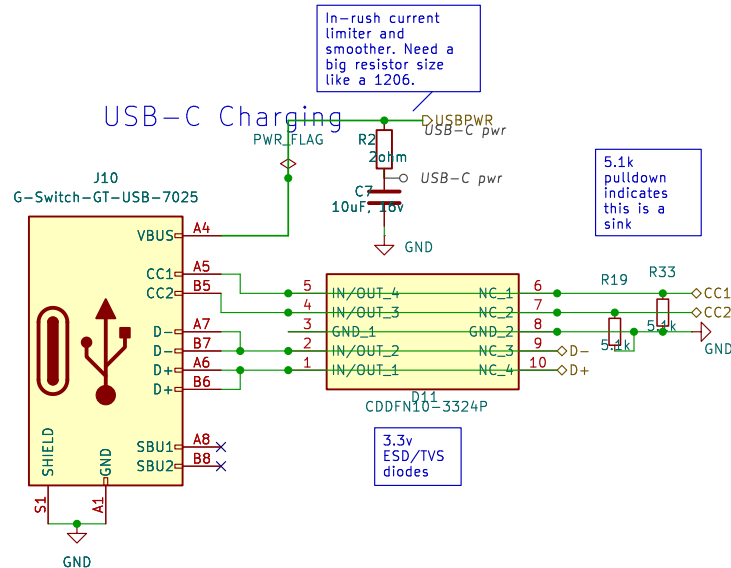
KiCad E.D.A. 8.0.7

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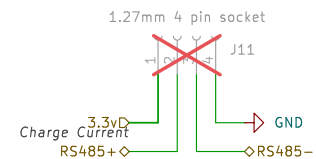


Inputs Outputs

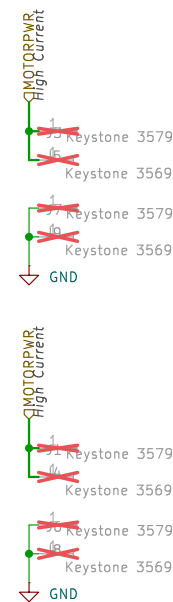
USB-C Charging



Hubs Connector

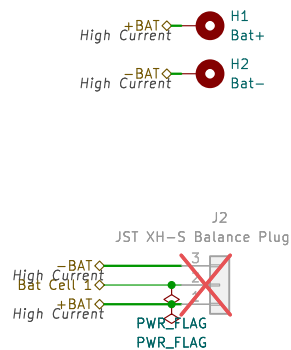


Driver Power



Not populated due to custom handling required, and the parts aren't available from China.

Battery Plugs



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Author: Asher Edwards

Sheet: /Connectors/

File: Connectors.kicad_sch

Title: CACKLE 2s 40A PSU & Charger

Size: A4

Date: 2024-12-23

Rev: V1

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Id: 5/6

