

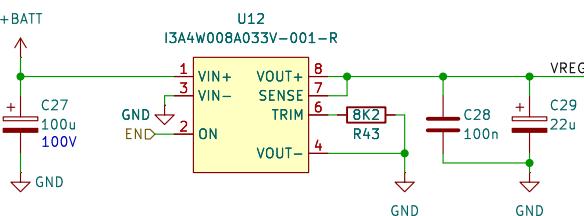
SMPS Regulator (1/32 Brick DC/DC)

$V_{ref} = 0.6V$
 $V_{on/off} = 2.59V$
 $F = 36500$
 $G = 511$

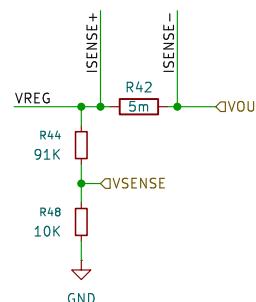
$$R_{ext} = (V_{ref} * F) / (V_{out} - V_{on/off}) - G$$

$$V_{out} = 5.1V \rightarrow 8.214K$$

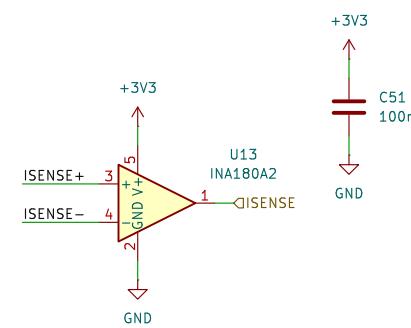
$$V_{out} = 18V \rightarrow 910$$



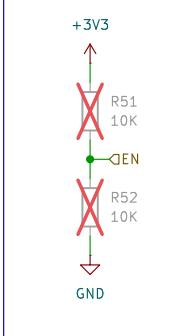
Connector + Voltage/Current Sense



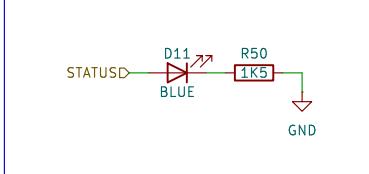
Current Sense Amplifier



Enable Override



Status LED



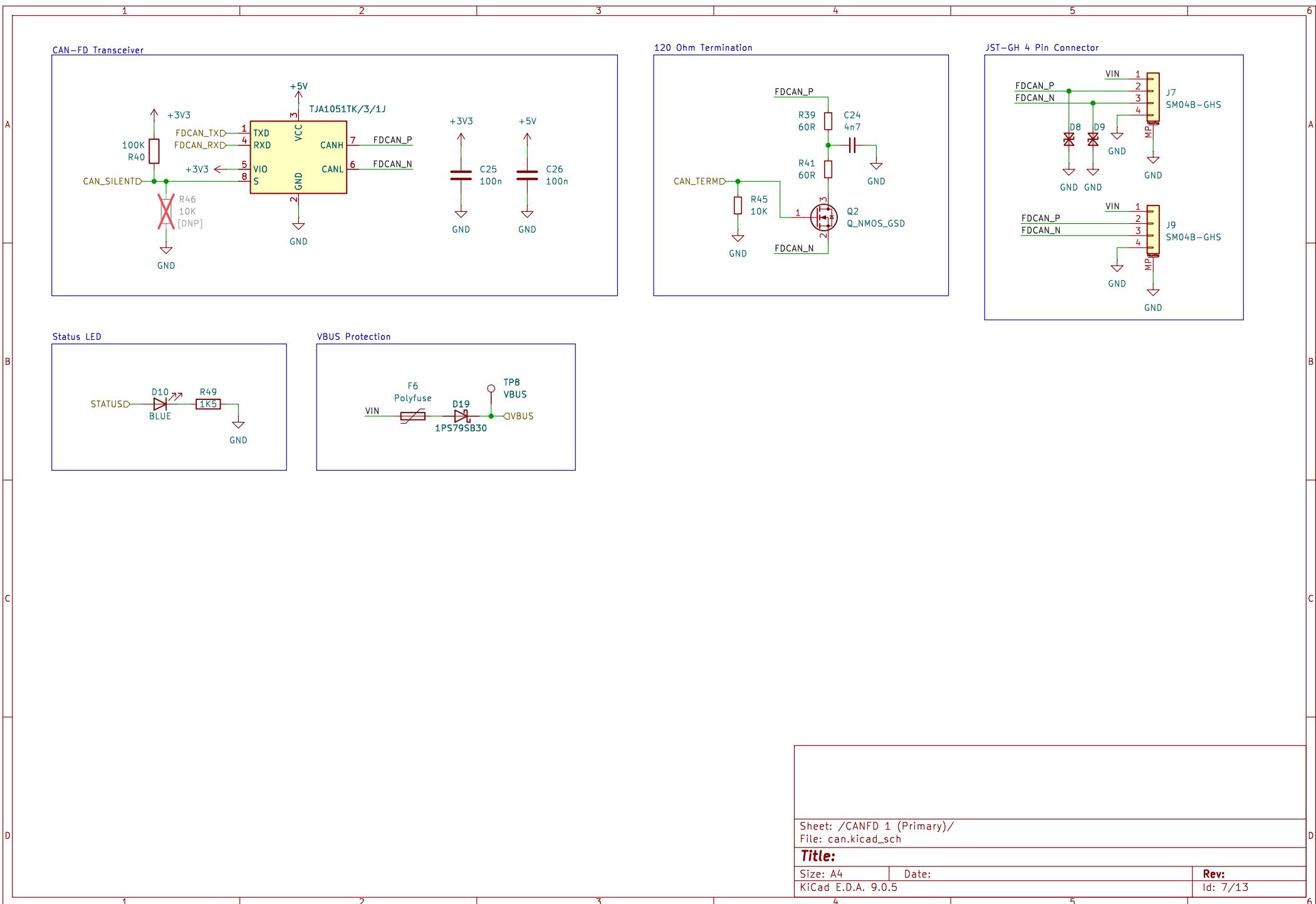
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File: regulator_highpower.kicad_sch

Title:

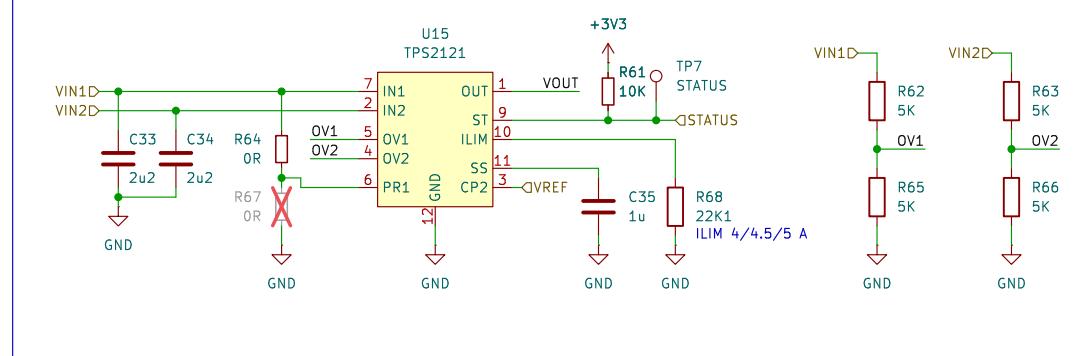
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KiCad E.D.A. 9.0.5

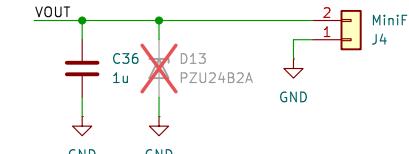
Rev:
Id: 7/13



Power Supply Mux



Molex MiniFit Output



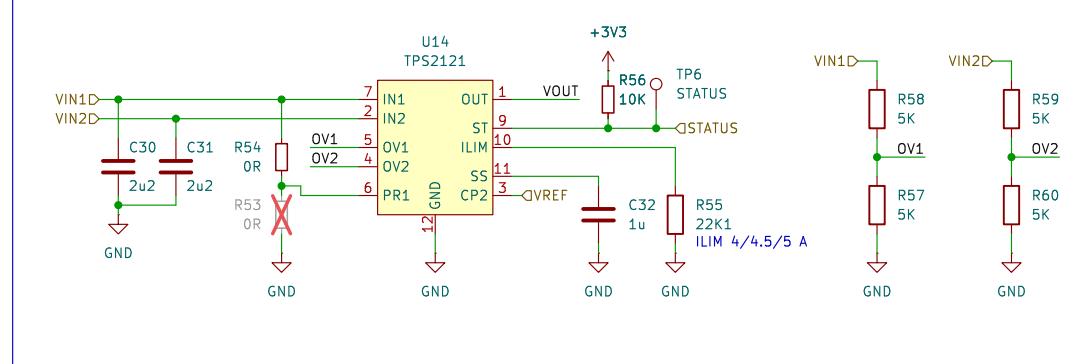
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File: port.kicad_sch

Title:

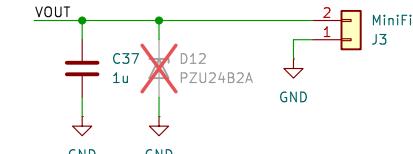
Size: A4 | Date:
KiCad E.D.A. 9.0.5

Rev:
Id: 8/13

Power Supply Mux



Molex MiniFit Output



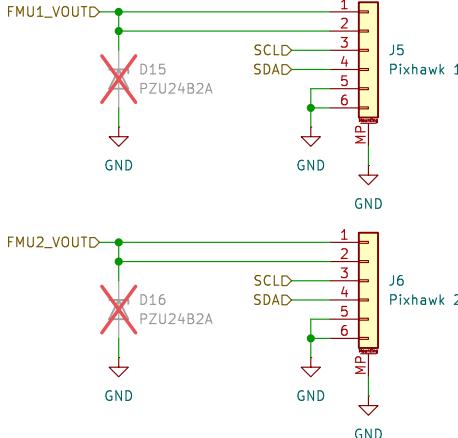
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Title:

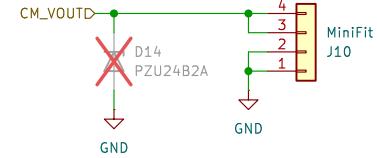
Size: A4 Date:
KiCad E.D.A. 9.0.5

Rev:
Id: 9/13

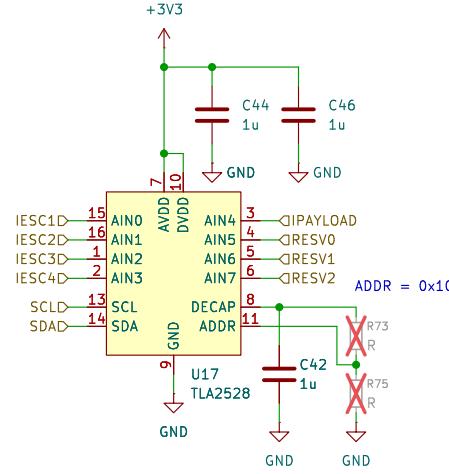
Pixhawk ClikMate Ports



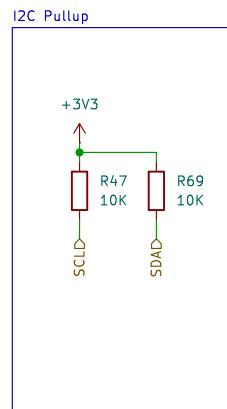
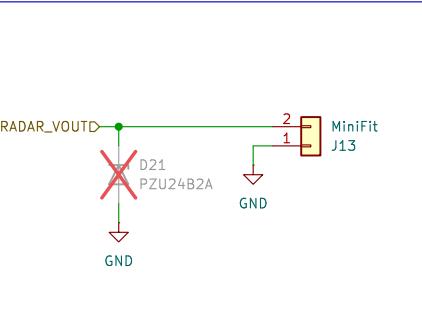
Compute Module Port



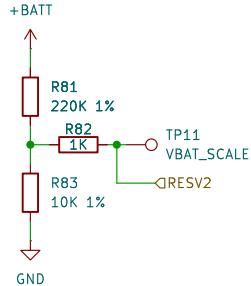
IO Expansion



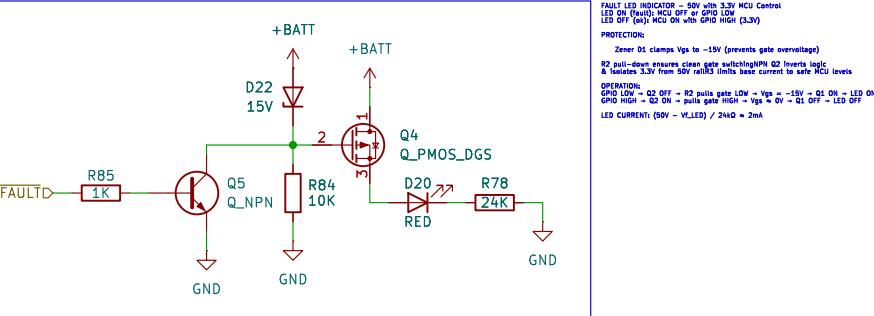
Rangefinder Port



Backup Voltage Sense



Fault LED



Sheet: /Passthrough Ports/
File: passthrough.kicad_sch

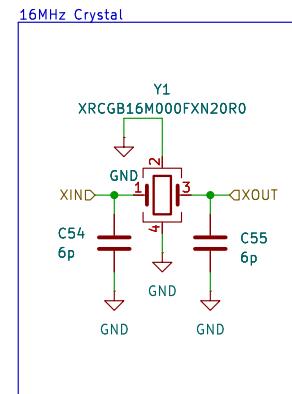
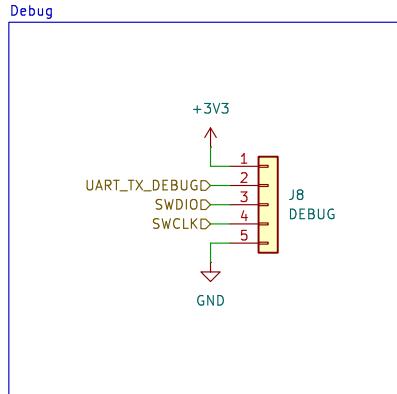
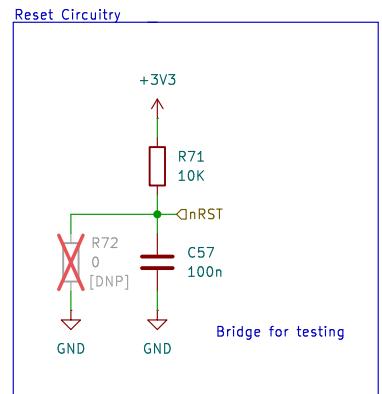
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KiCad E.D.A. 9.0.5

Rev:

Id: 11/13



Title:
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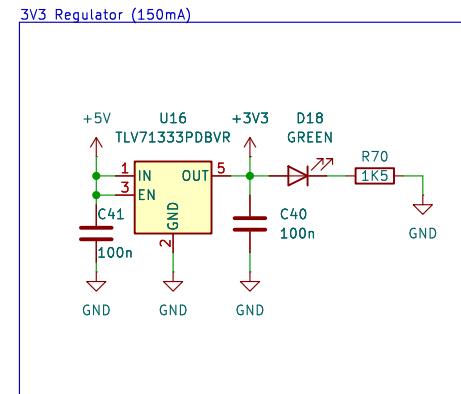
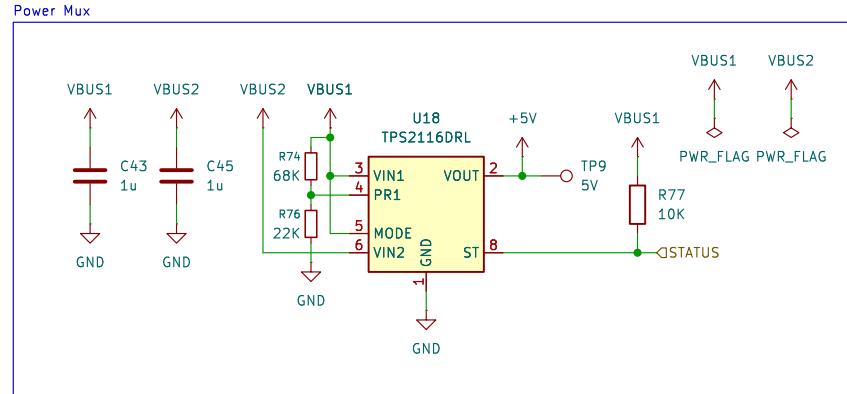
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Rev:

Id: 12/13



Sheet: /Onboard Regulator/
File: regulator_onboard.kicad_sch

Title:

Size: A4 | Date:
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Rev:
Id: 13/13