

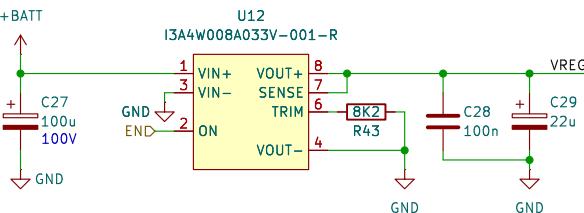
### SMPS Regulator (1/32 Brick DC/DC)

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

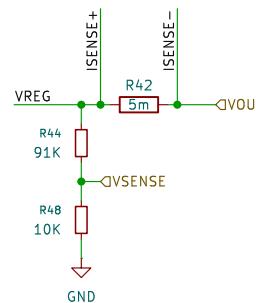
$$R_{ext} = (V_{ref} * F) / (V_{out} - V_{on/off}) - G$$

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

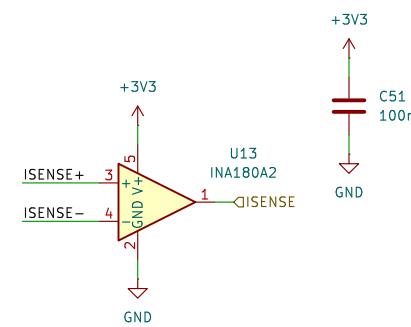
$$V_{out} = 18V \rightarrow 910$$



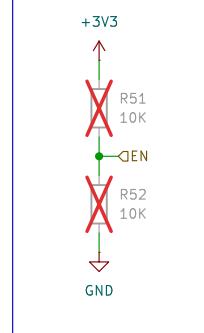
### Connector + Voltage/Current Sense



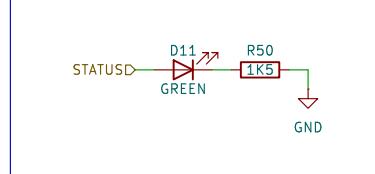
### Current Sense Amplifier



### Enable Override



### Status LED

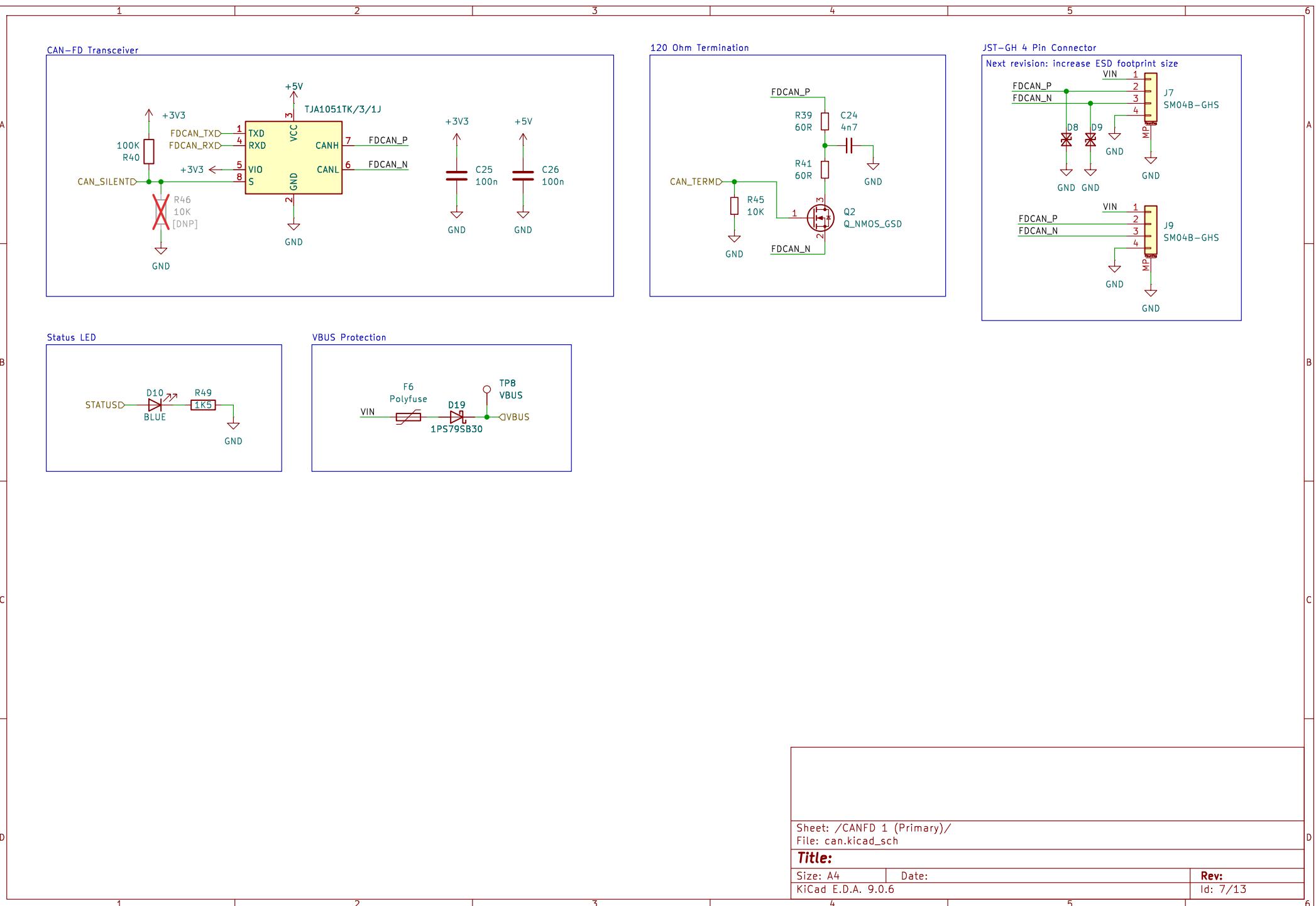


**Sheet:** /Compute Module Domain/  
**File:** regulator\_highpower.kicad\_sch

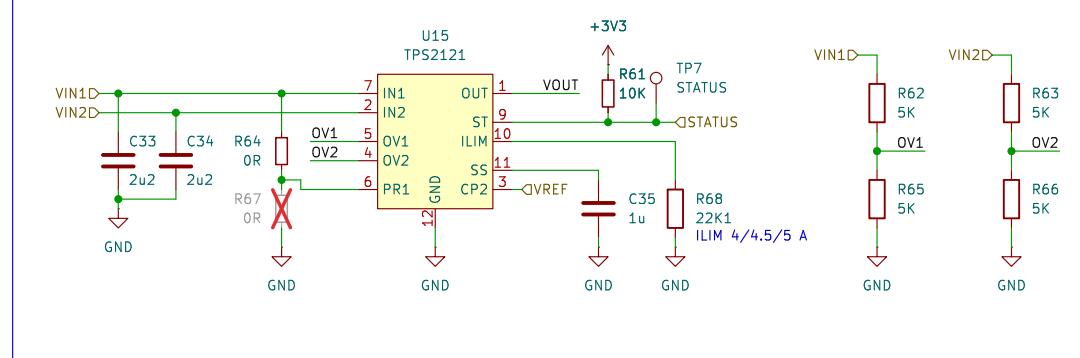
### Title:

Size: A4 | Date:  
 KiCad E.D.A. 9.0.6

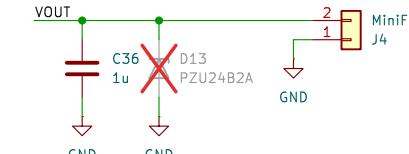
**Rev:**  
 Id: 7/13



Power Supply Mux



Molex MiniFit Output



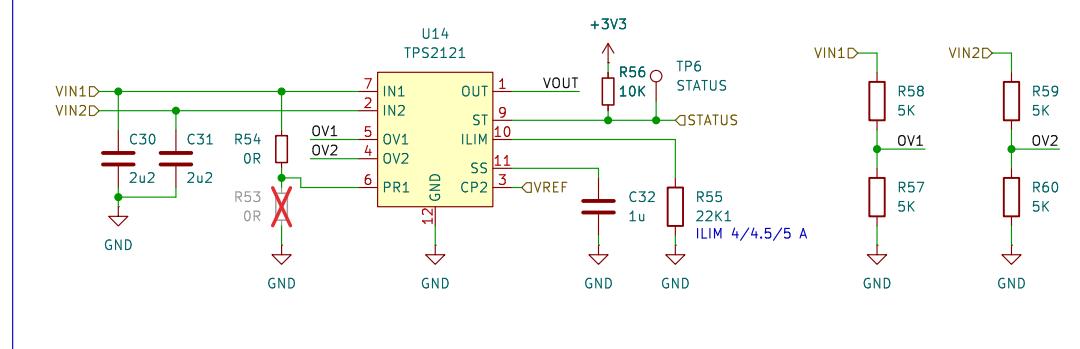
Sheet: /RC Radio/  
File: port.kicad\_sch

**Title:**

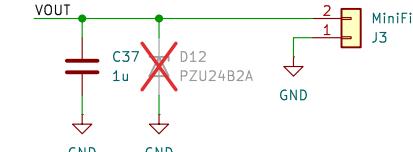
Size: A4 | Date:  
KiCad E.D.A. 9.0.6

Rev:  
Id: 8/13

Power Supply Mux



Molex MiniFit Output

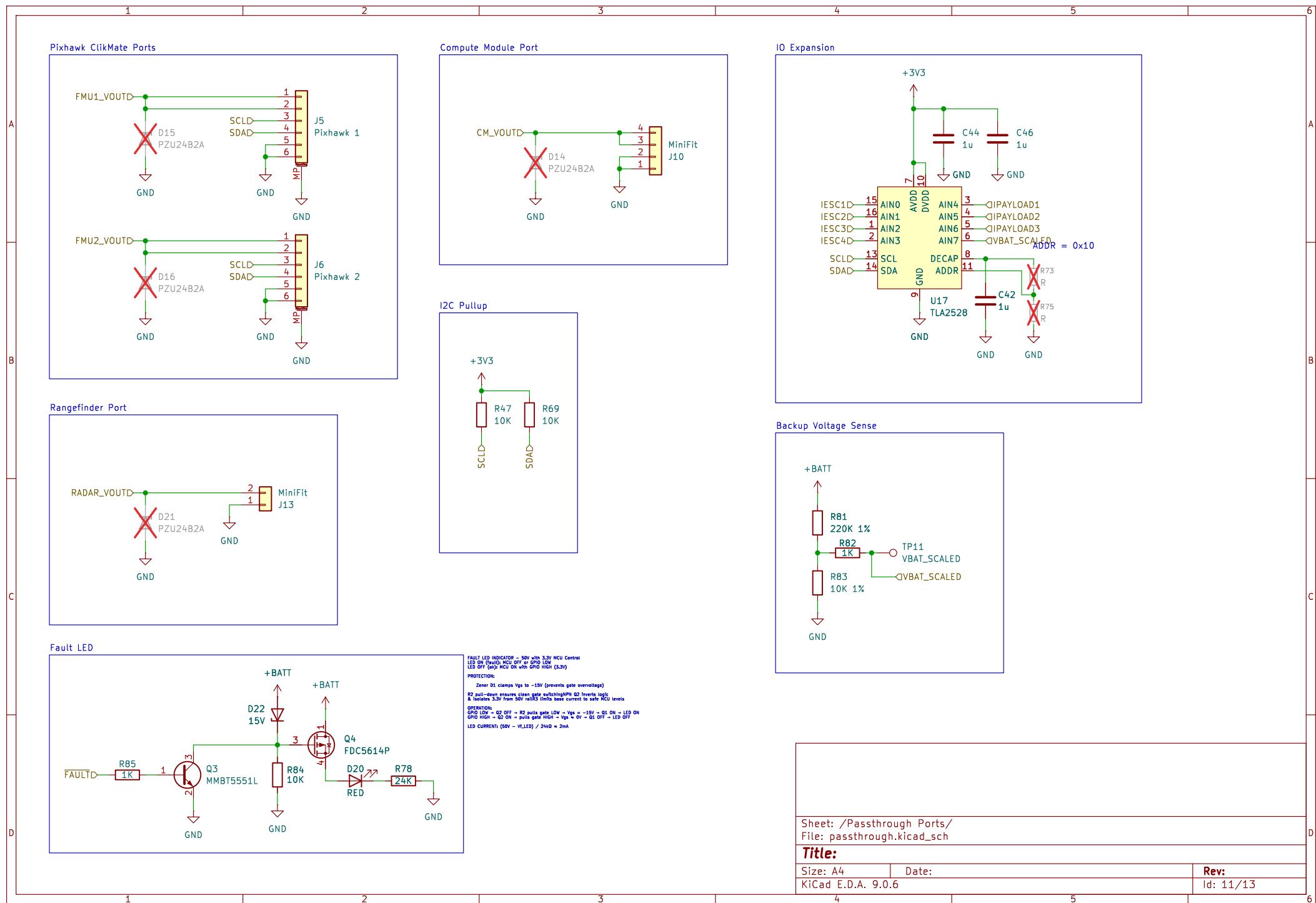


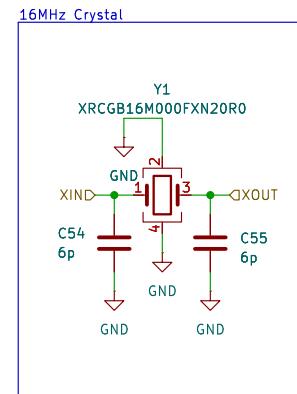
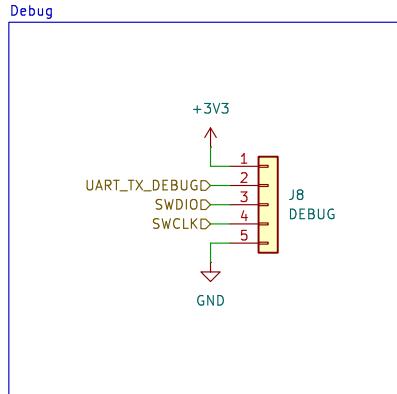
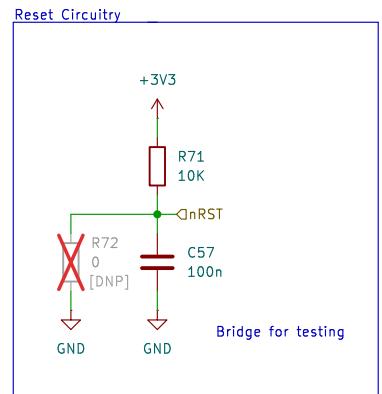
Sheet: /Telemetry Radio/  
File: port.kicad\_sch

**Title:**

Size: A4 | Date:  
KiCad E.D.A. 9.0.6

Rev:  
Id: 9/13





**Title:**  
Sheet: /Reset Clock Ctrl/  
File: rcc.kicad\_sch

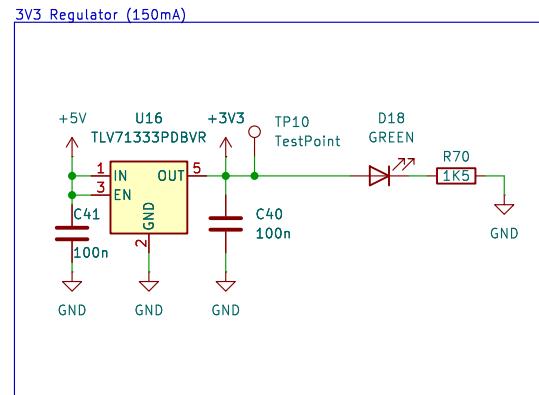
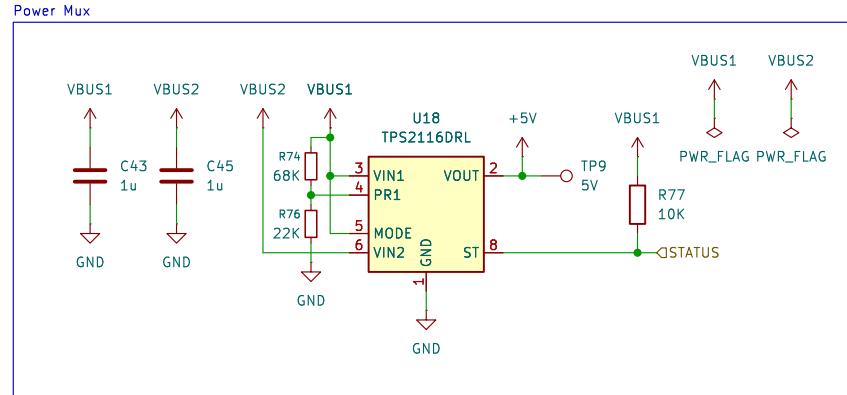
**Size:**

A4 | Date:

KiCad E.D.A. 9.0.6

**Rev:**

Id: 12/13



Sheet: /Onboard Regulator/  
File: regulator\_onboard.kicad\_sch

**Title:**

Size: A4 | Date:  
KiCad E.D.A. 9.0.6

**Rev:**  
Id: 13/13