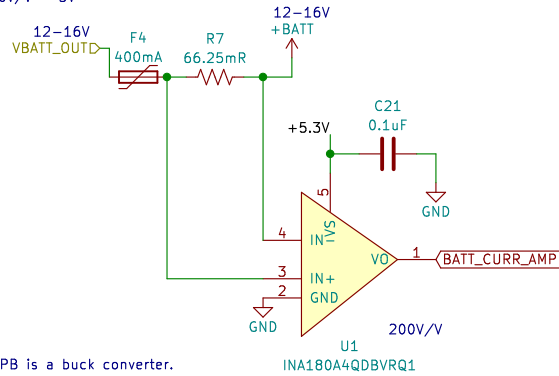
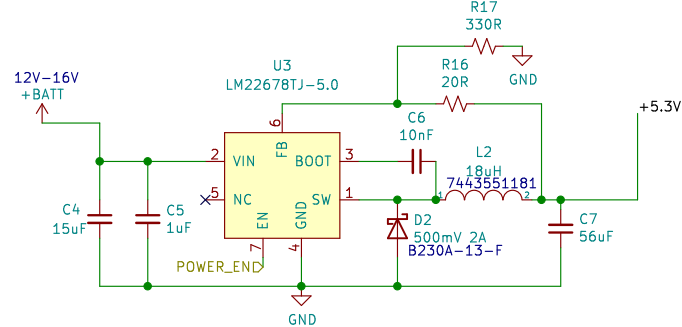


# Main Power Supplies

$66.25\text{mR} \cdot I \cdot 200\text{V/V} = 5\text{V}$   
 $I_{\text{max}} = 400\text{mA}$

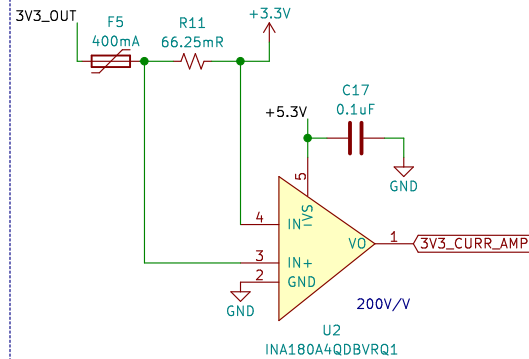


LM22678TJ-5.0/NOPB is a buck converter.  
 $I_{\text{out}}: 1.5\text{A}$   
 Values are taken from WEBENCH power designer  
<https://webench.ti.com/appinfo/webench/scripts/SDP.cgi?ID=68E5BFACDBC533EB>  
 PDF version:  
<https://drive.google.com/file/d/13pYM-p7NzNzNQYZXknj9P6BV4uZ4R9wv/view?usp=sharing>

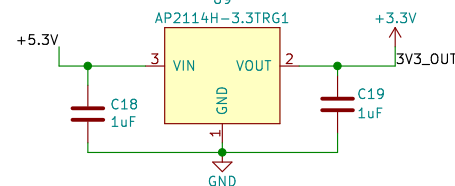


# Logger Board Power Supplies

$66.25\text{mR} \cdot I \cdot 200\text{V/V} = 5.3\text{V}$   
 $I_{\text{max}} = 400\text{mA}$



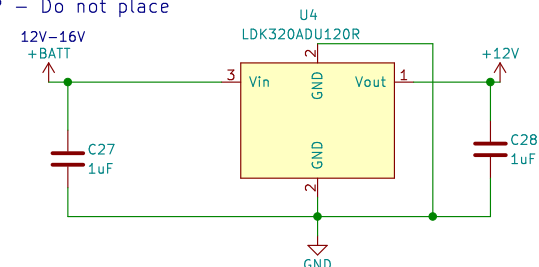
AP2114H-3.3TRG1 is a 3.3V LDO  
 $I_{\text{out}} = 600\text{mA}$



$+5.3\text{V} \rightarrow +5.3\text{V}$   
 $+37\text{V} \rightarrow +37\text{V}$

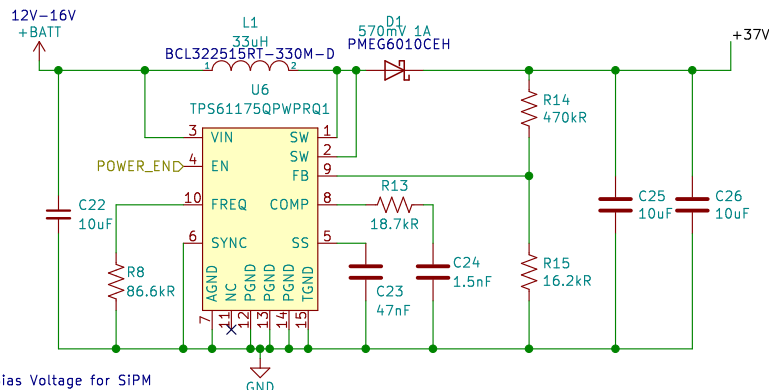
1uF capacitors as per datasheet directly (no calculations)  
 LDK320ADU120R is a 12V fixed-voltage regulator.  
 Max  $I_{\text{out}}$  rating: 0.2A

DNP – Do not place



# TPS61175 is a boost converter.

Max  $I_{\text{out}}$  rating: 3A  
 Values are taken from WEBENCH power designer  
<https://webench.ti.com/appinfo/webench/scripts/SDP.cgi?ID=72ECE7EF0AA4EE07>  
 PDF version:  
<https://drive.google.com/file/d/1ktwurg3Bjmdxpc3J00zTu8lIix18m34/view?usp=sharing>



Bias Voltage for SIPM

Sheet: /battery\_management/  
 File: battery\_management.sch

Title:

Size: A4

Date:

KiCad E.D.A. kicad (5.1.9)-1

Rev:

Id: 2/4



