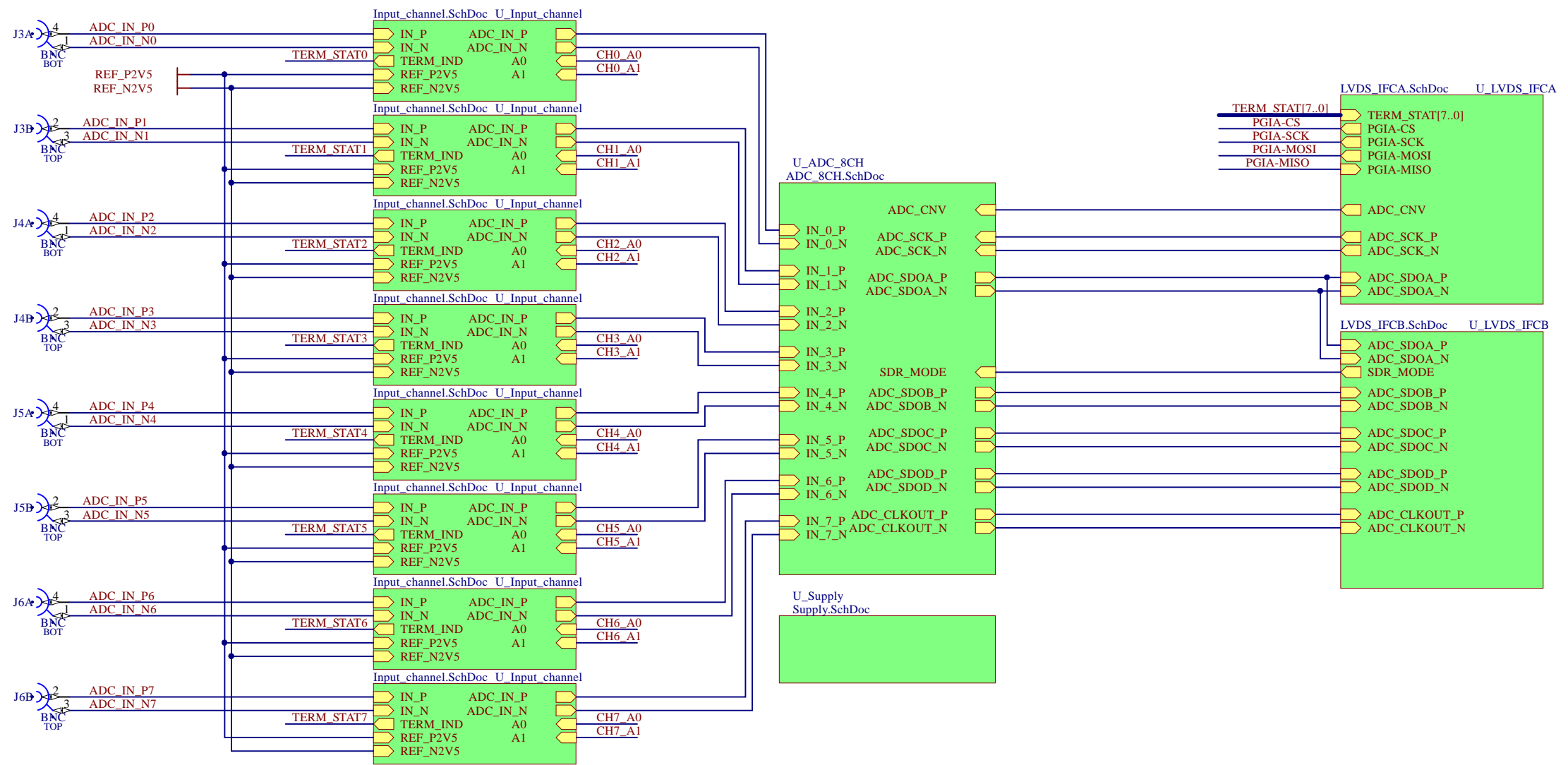
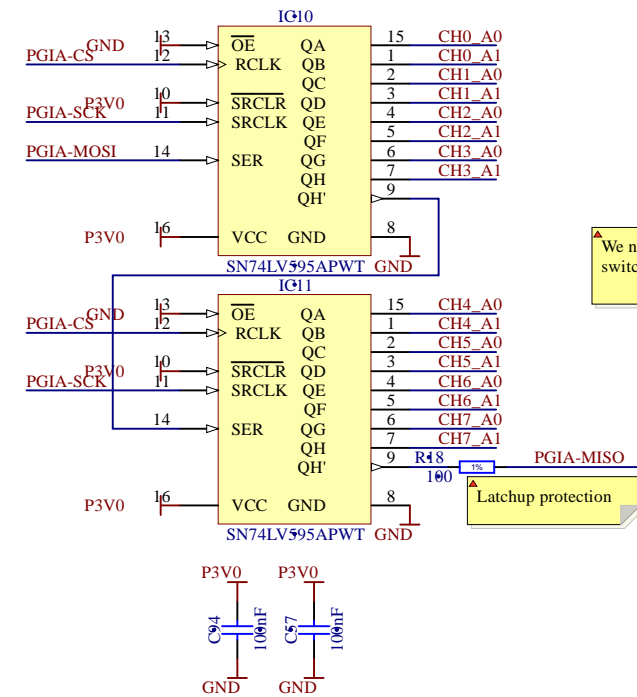
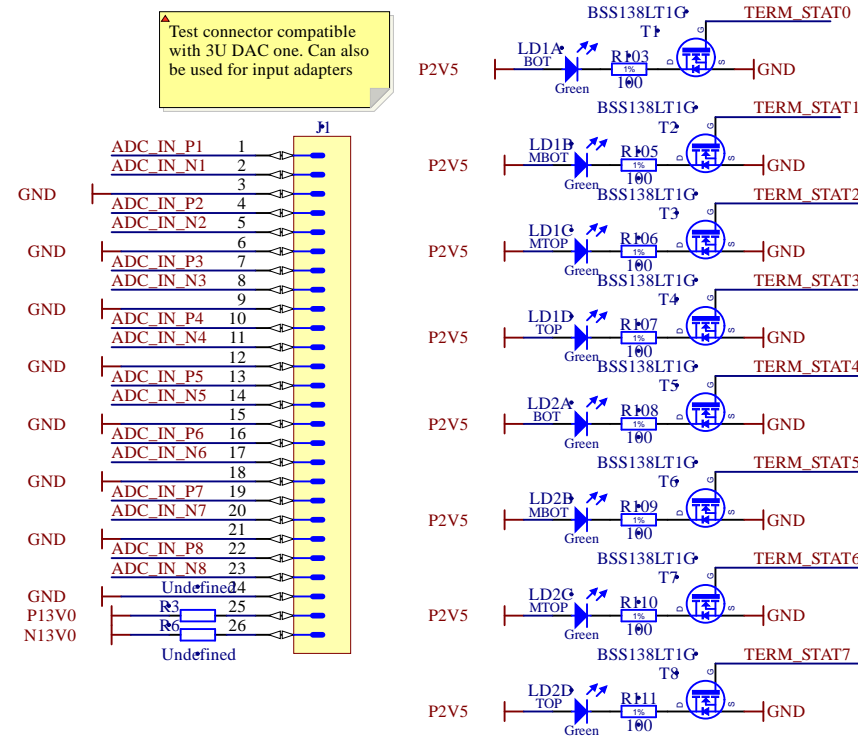
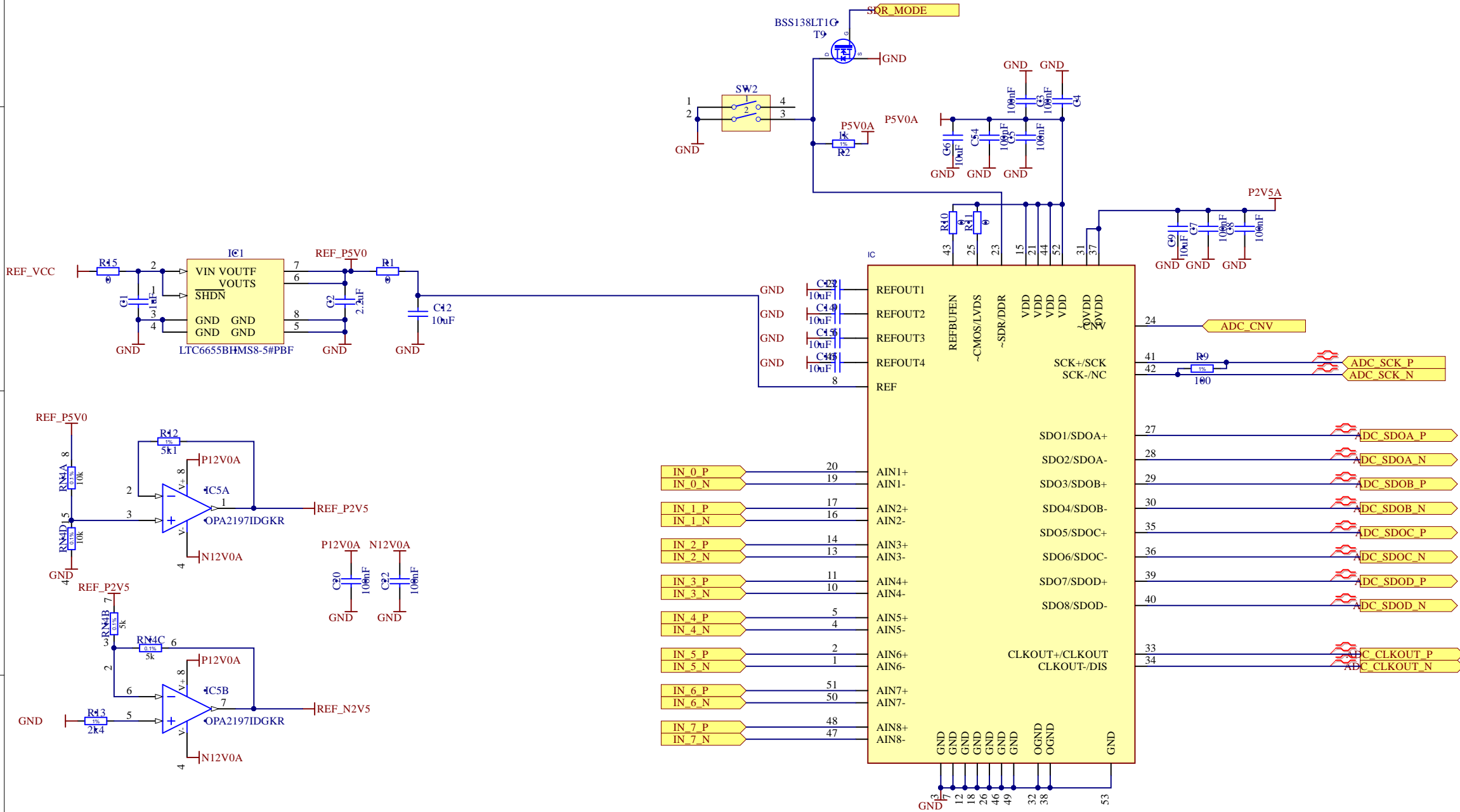


The diagram shows a 5x5 grid of test points. Each point is labeled from CLP1 to CLP25. The labels are arranged in five rows and five columns. Each label is positioned above a blue horizontal bar. From the center of each blue bar, a red vertical line extends downwards, ending in a horizontal red bar, which is labeled 'GND' in red text.



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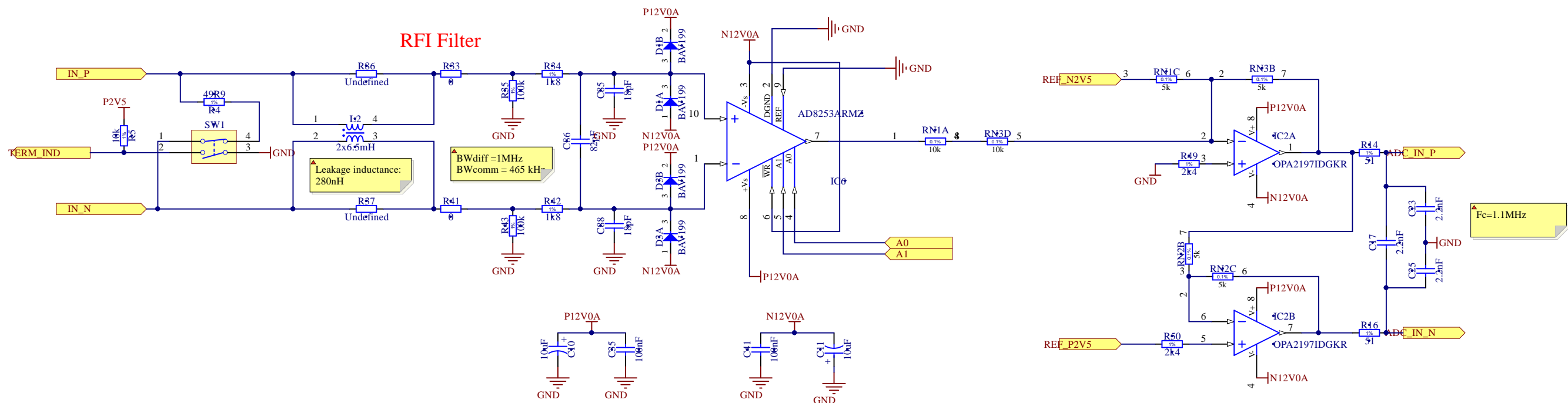
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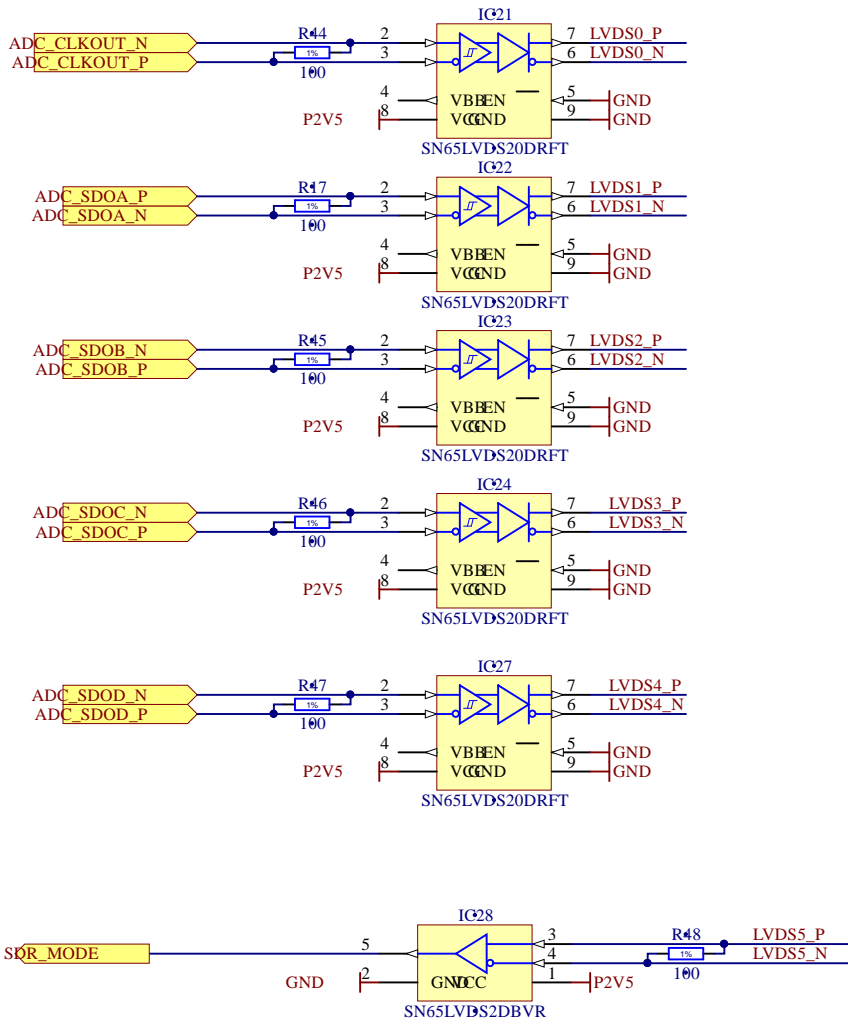
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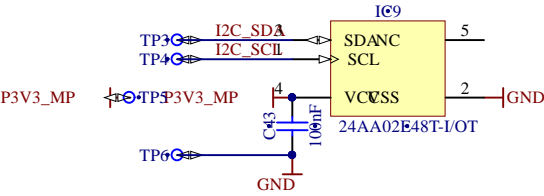
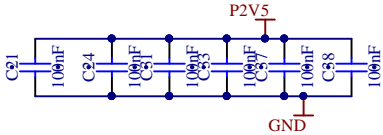
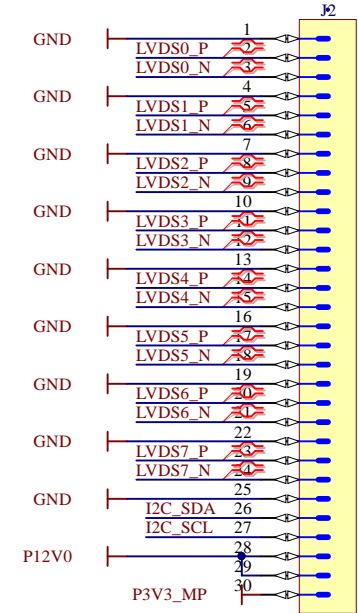
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EEM connector: IO are LVDS, I2C is 3V3 LVCMOS, P3V3\_MP up to 20mA, P12V up to 1A



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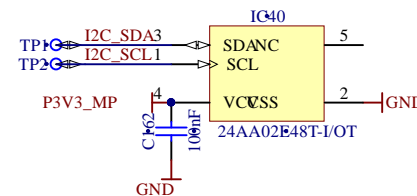
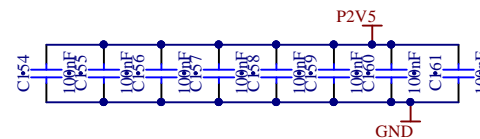
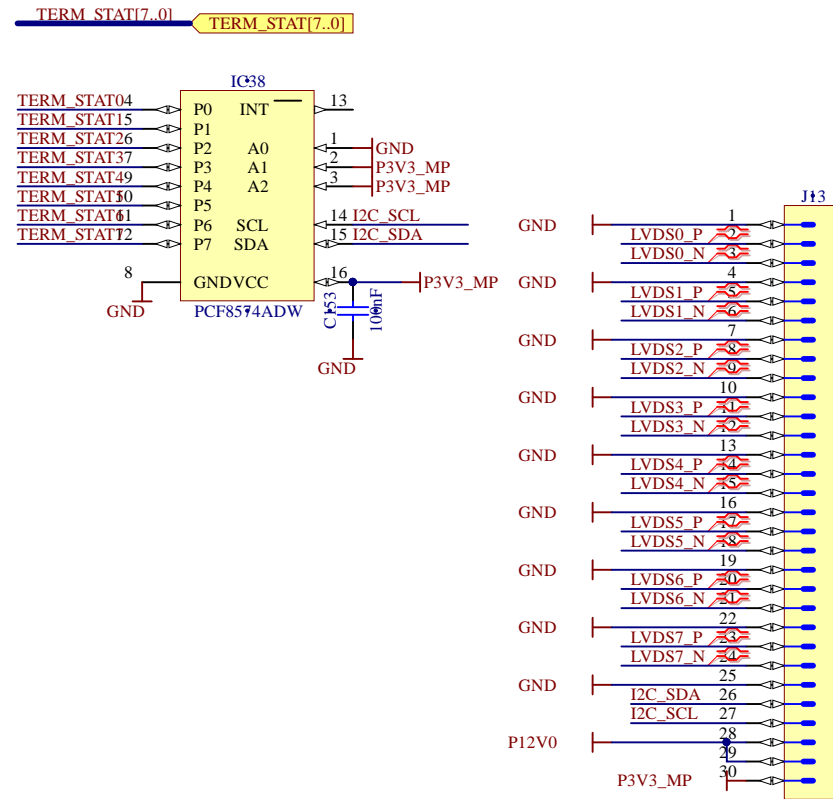
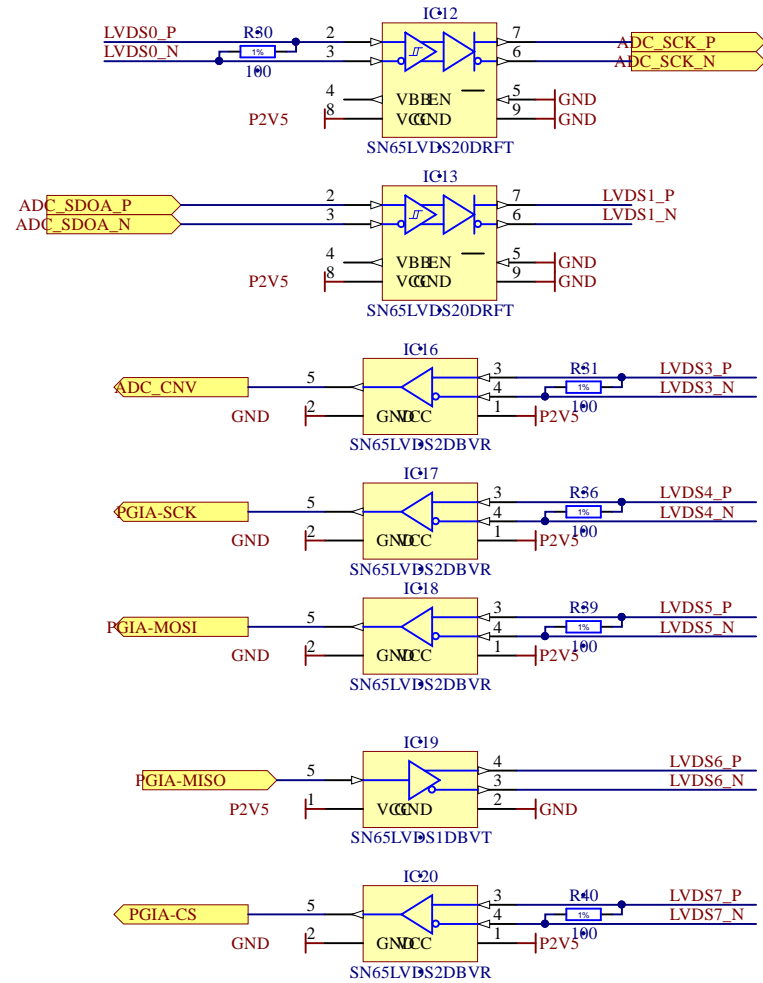
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EEM connector: IO are LVDS, I2C is 3V3 LVCMOS, P3V3\_MP up to 20mA, P12V up to 1A



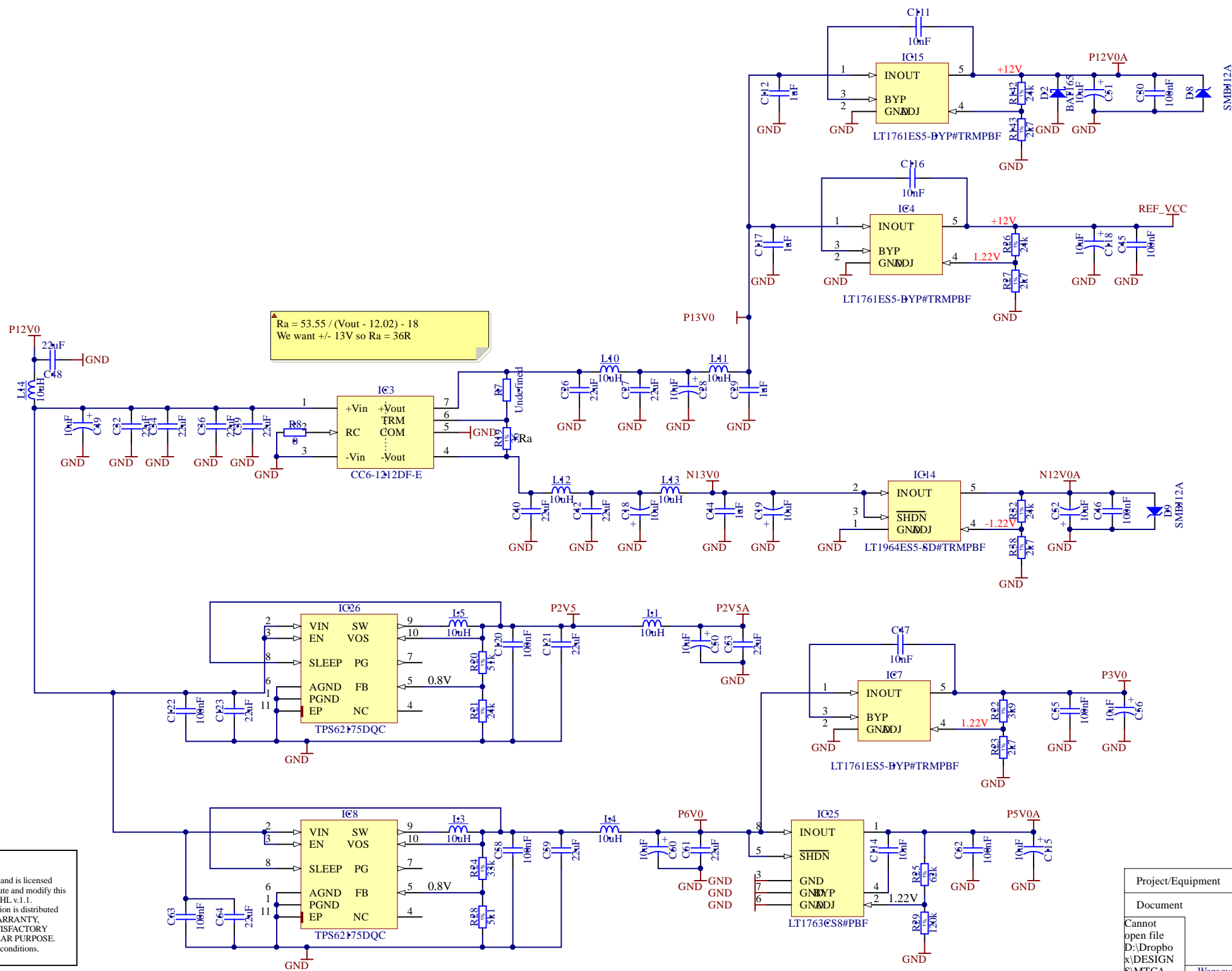
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Power budget (max ratings, mA):

P2V5:  
SN65LVDS20DRFT 7\*45=315  
SN65LVDS2DBVR 5\*8=40  
SN65LVDS1DBVT 8  
LTC2320 38  
LEDs 8\*5=40  
RAIL POWER 441mA\*2.5=1.1W

P5V0  
LTC2320 60  
RAIL POWER 60\*5=0.3W

P12V0  
AD8253ARMZ 8\*4mA=32mA  
OPA2197 8\*2mA=16mA  
RAIL POWER = 48\*12 = 0.576W

N12V0  
AD8253ARMZ 8\*4mA=32mA  
OPA2197 8\*2mA=16mA  
RAIL POWER = 48\*12 = 0.576W

DC/DC converter losses  
TPS62175:2.5 eff .95 0.05\*(.44+0.026)\*2.5=0.06W  
TPS62175:6 eff .95 0.05\*(.06+0.026)\*6=0.03  
CC6-1212DF-E:13V eff .8 0.3\*12\*0.048=0.17  
CC6-1212DF-E:-13V eff .8 0.3\*12\*0.048=0.17

LDO losses  
6V->5V 0.06\*1V = 60mW  
13V->12V 48mW  
-13V->-12V 48mW

Total power from 12V 2.9W  
Total current from 12V 0.24A

Project/Equipment 3U ADC		Designer G.K.	
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Power Supply  
converters + LDOs

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