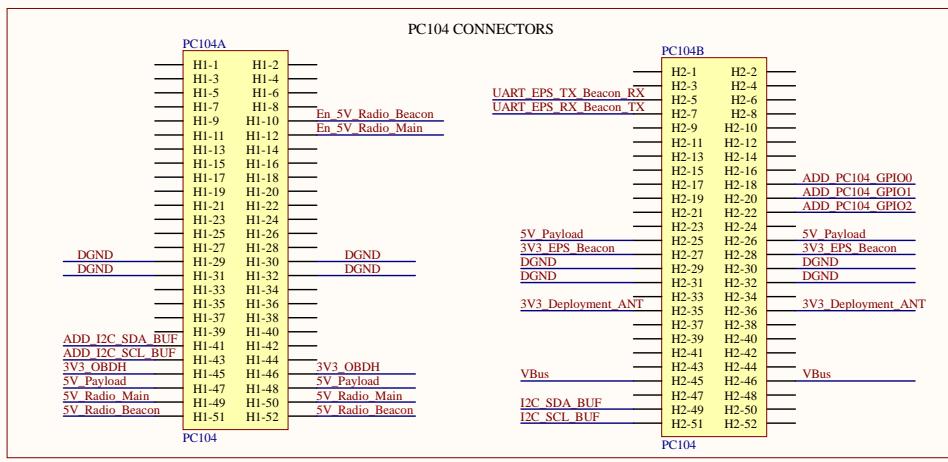
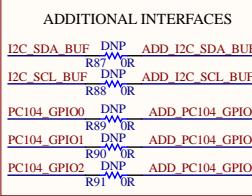
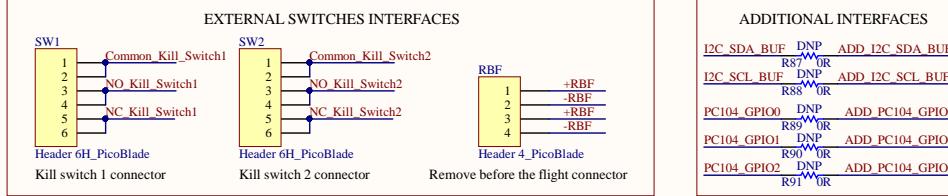
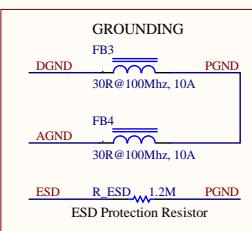
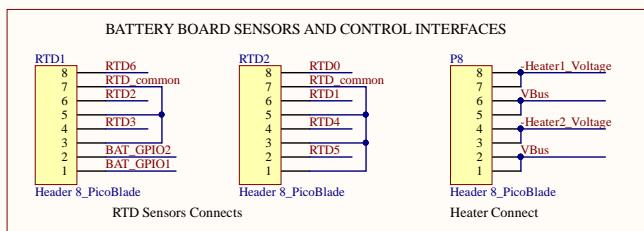
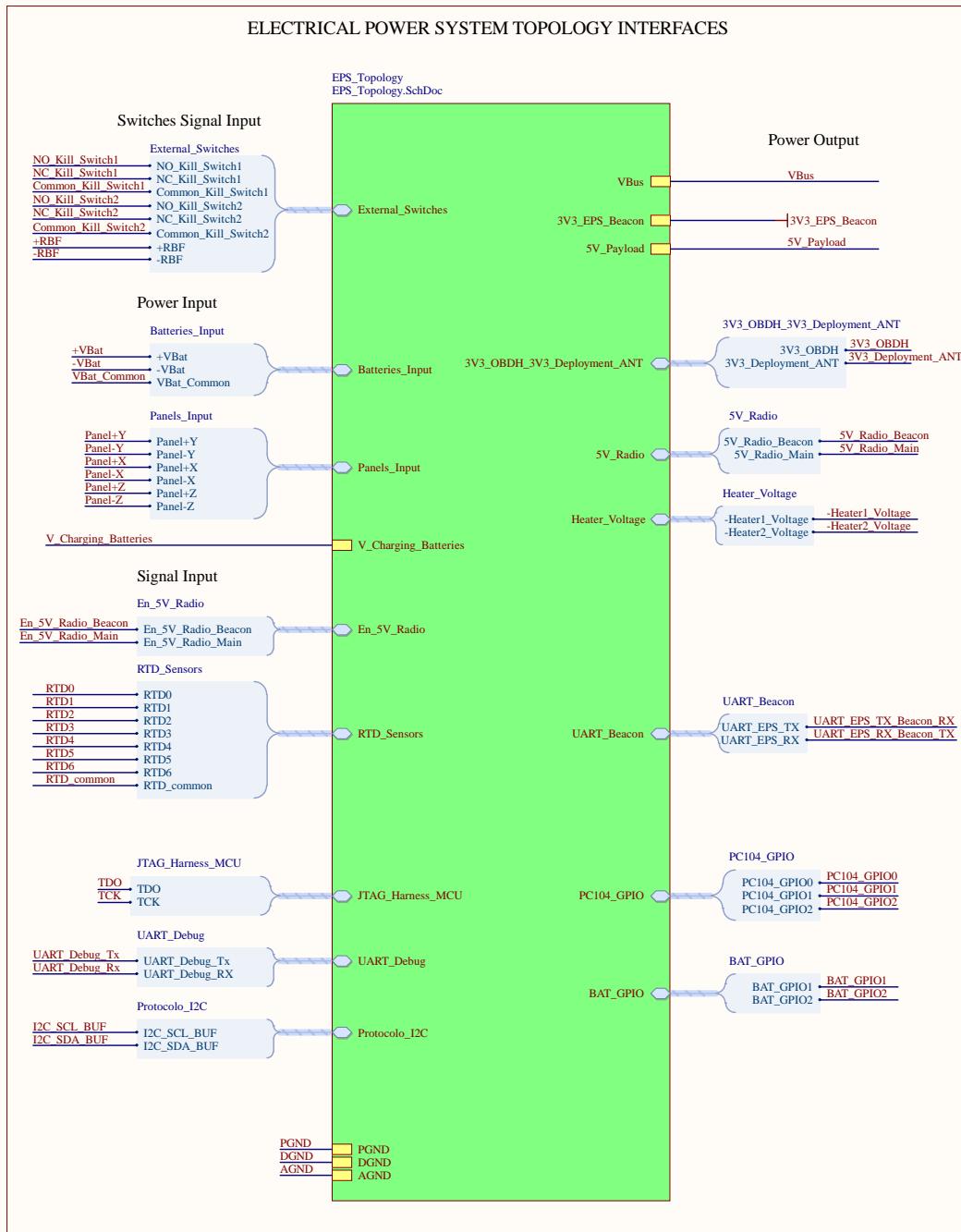
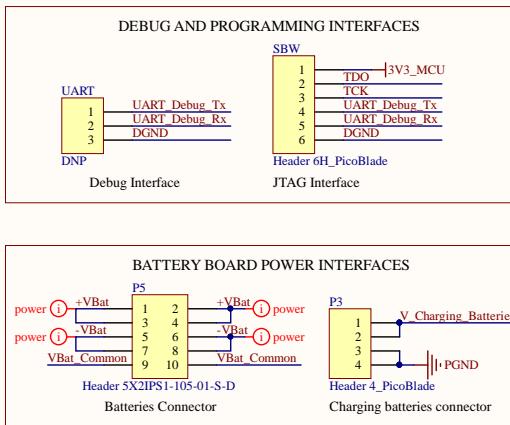
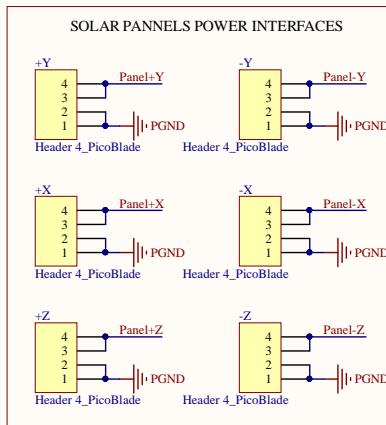
Title **Block diagram**

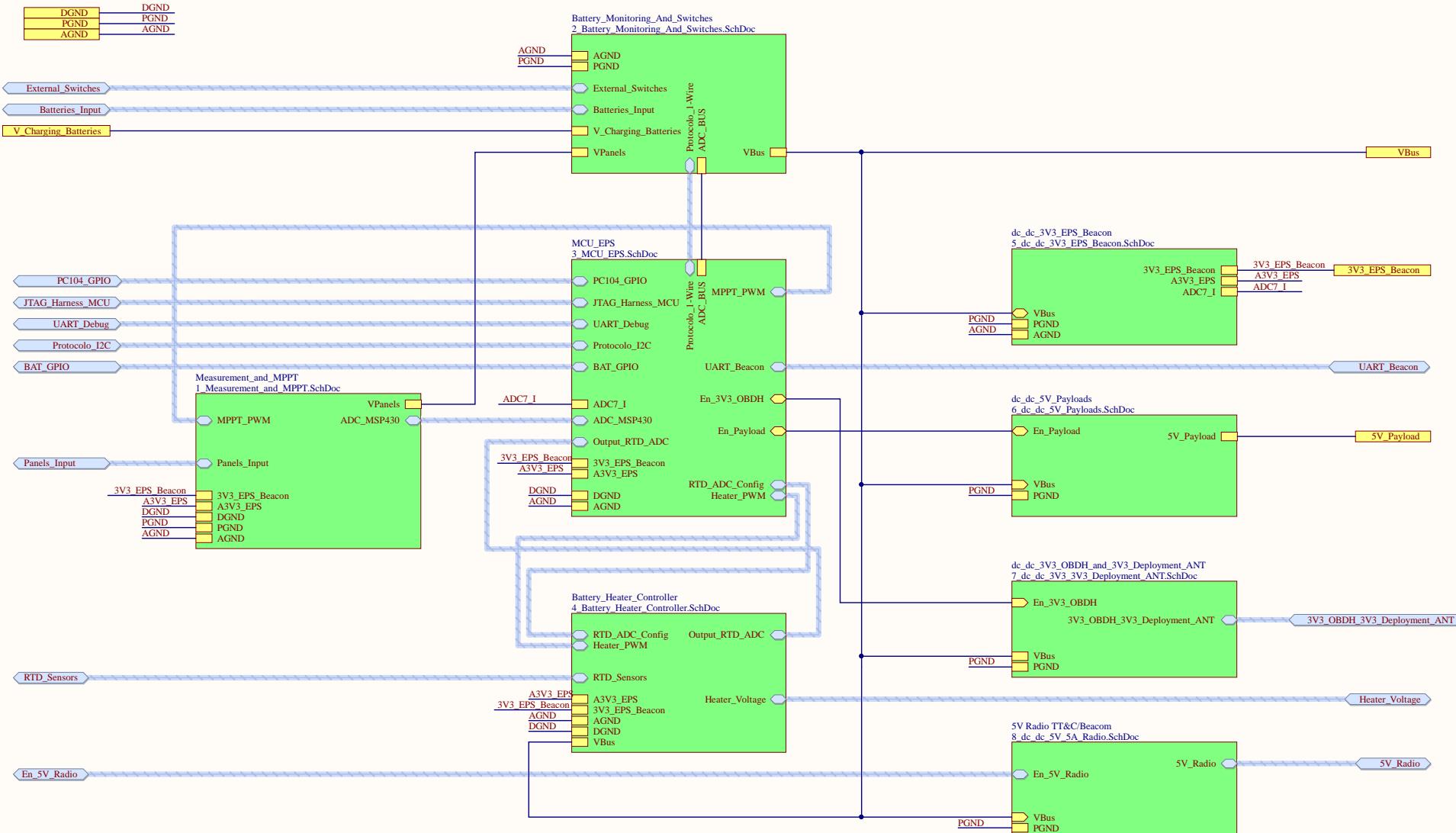
Size: A3 Project: FloripaSat Revision: V0.1  
Date: 5/10/2020 Time: 8:02:04 PM Sheet 1 of 11  
Drawn by: Sara V. Martinez Model: Flight

UFSC - SpaceLab  
University Campus - Trindade  
Dep. of Electrical Engineering - CTC  
Florianópolis, Santa Catarina, Brazil  
CEP: 88040 - 900

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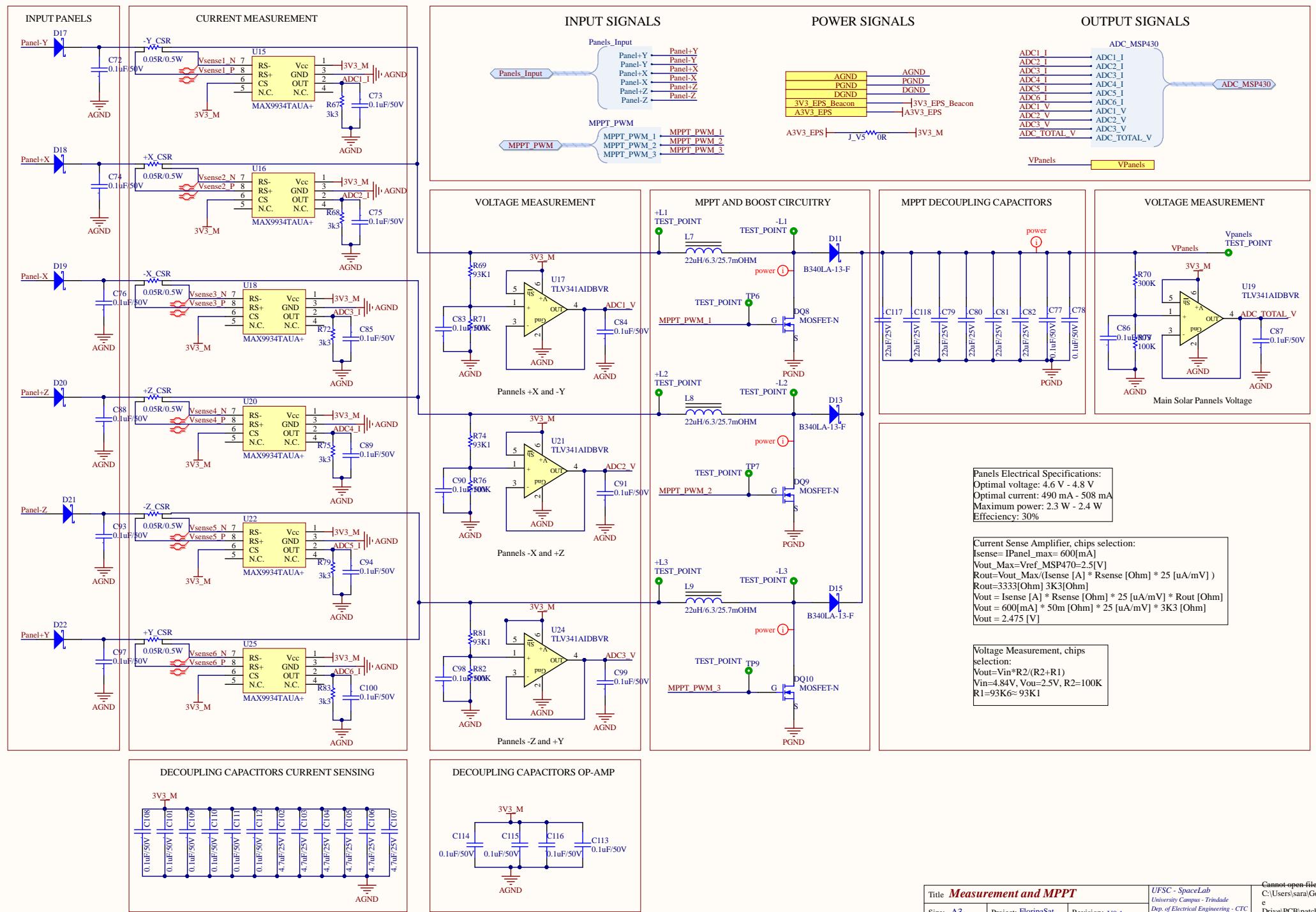
Title <b>EPS Interface</b>	UFSC - SpaceLab	Cannot open file C:\Users\sara\Google Drive\PCB\patch-256.png
Size: A3	Project: FloripaSat	Revision: V0.1
Date: 5/10/2020	Time: 8:02:04 PM	Sheet 2 of 11
Drawn by: Sara V. Martinez	Model: Flight	CEP: 88040 - 900


**Title EPS Topology**

Size: A3 | Project: FloripaSat | Revision: V0.1  
Date: 5/10/2020 | Time: 8:02:04 PM | Sheet 3 of 11  
Drawn by: Sara V. Martinez

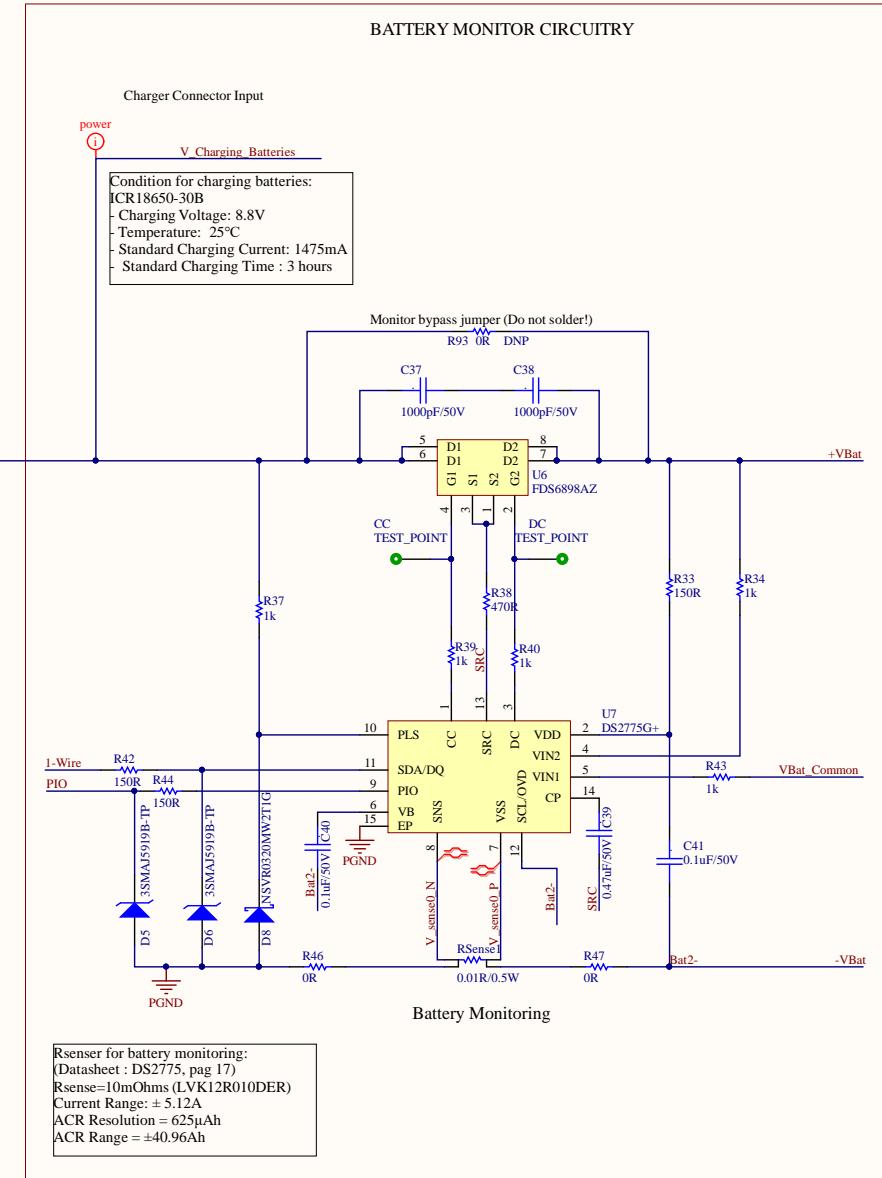
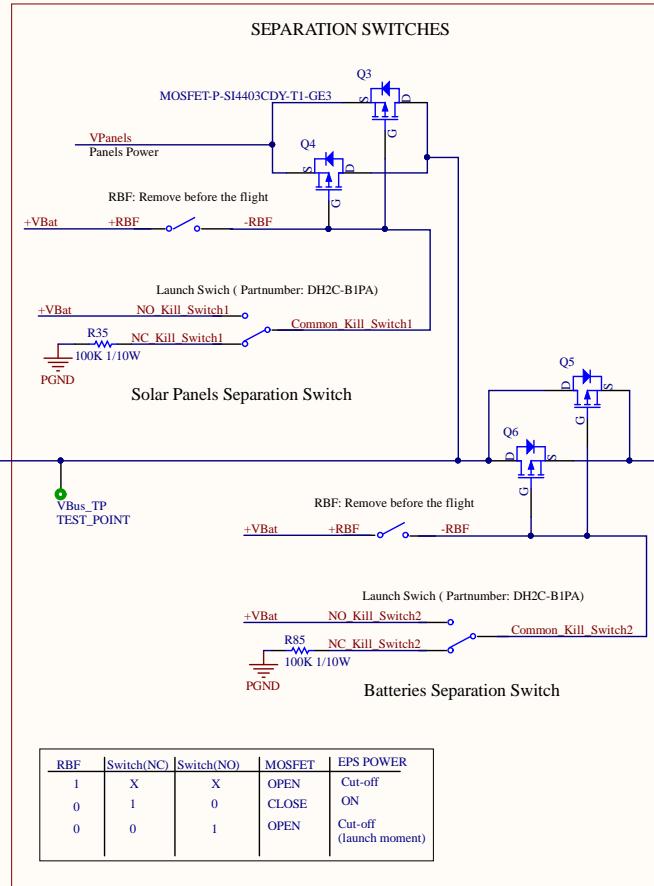
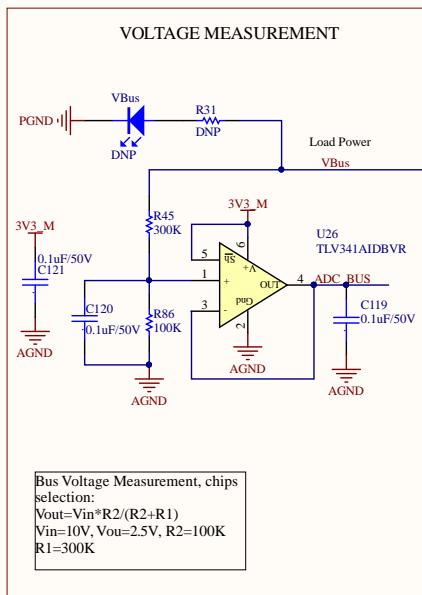
UFSC - SpaceLab  
University Campus - Trindade  
Dep. of Electrical Engineering - CTC  
Florianópolis, Santa Catarina, Brazil  
CEP: 88040 - 900

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A

A

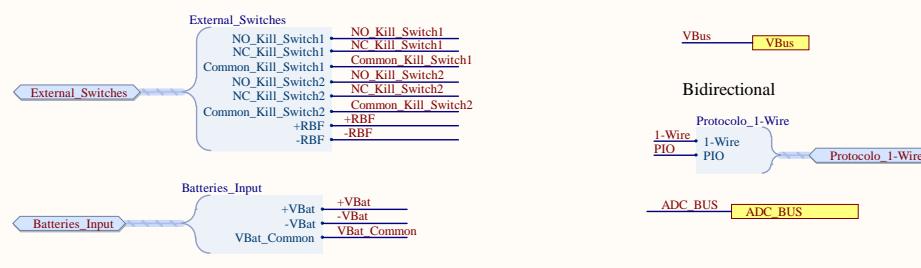


B

B

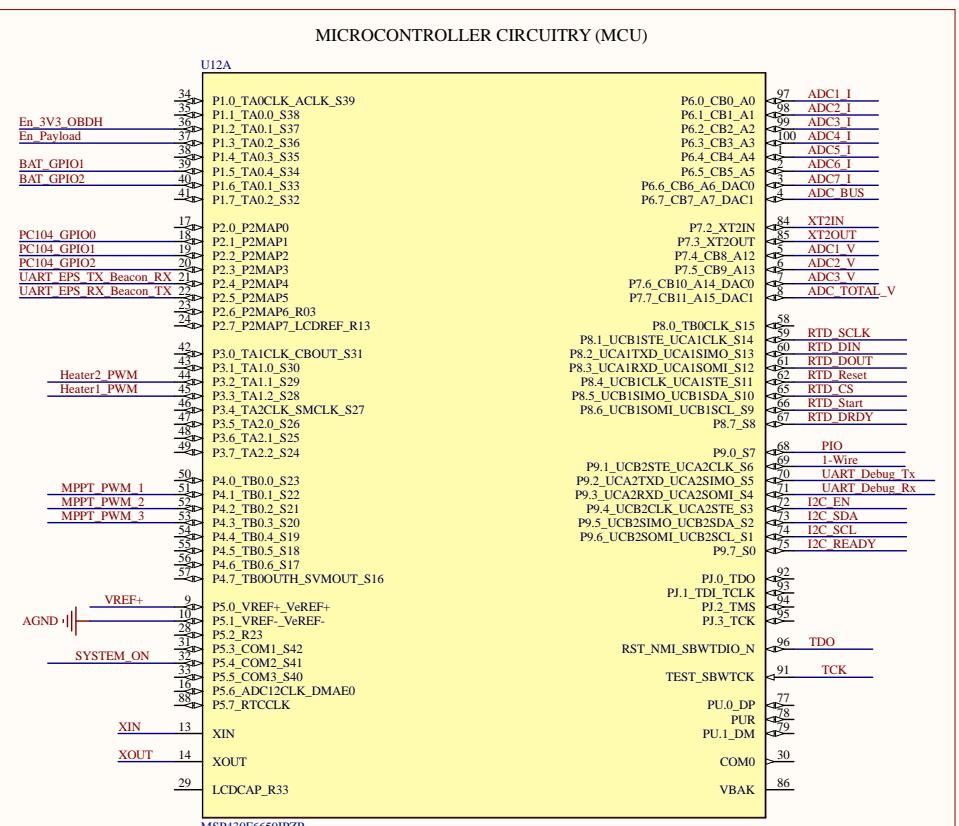
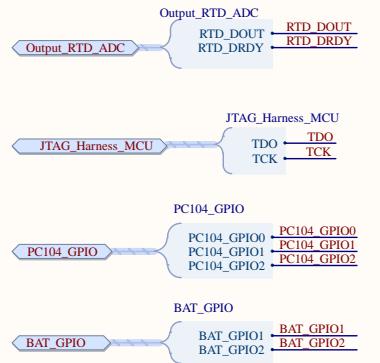
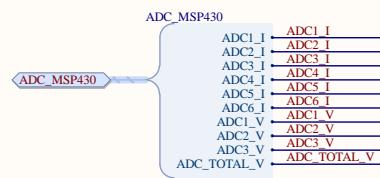
C

C



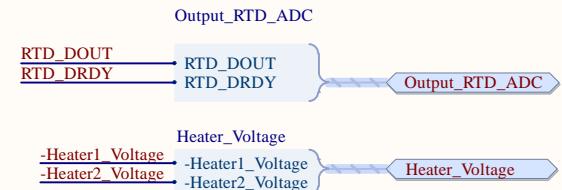
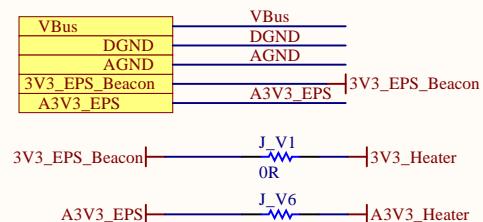
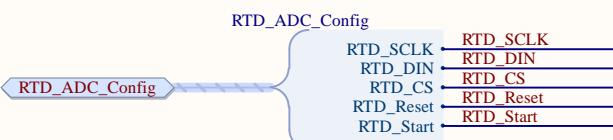
Title <b>Batteries Monitor and Power Switches</b>		
Size: A3	Project: FloripaSat	Revision: V0.1
Date: 5/10/2020	Time: 8:02:05 PM	Sheet 5 of 11
Drawn by: Sara V. Martinez		Model: Flight

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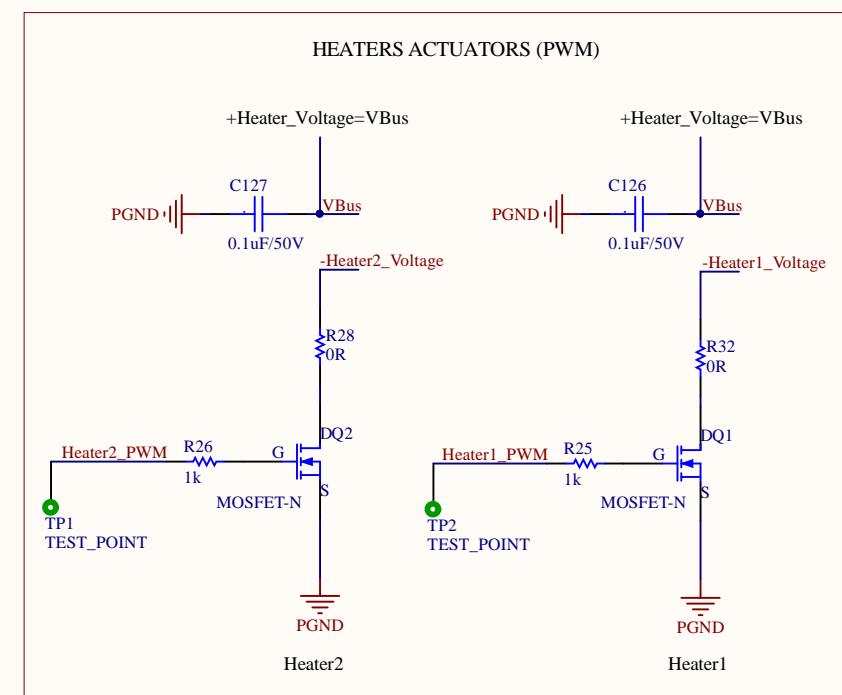
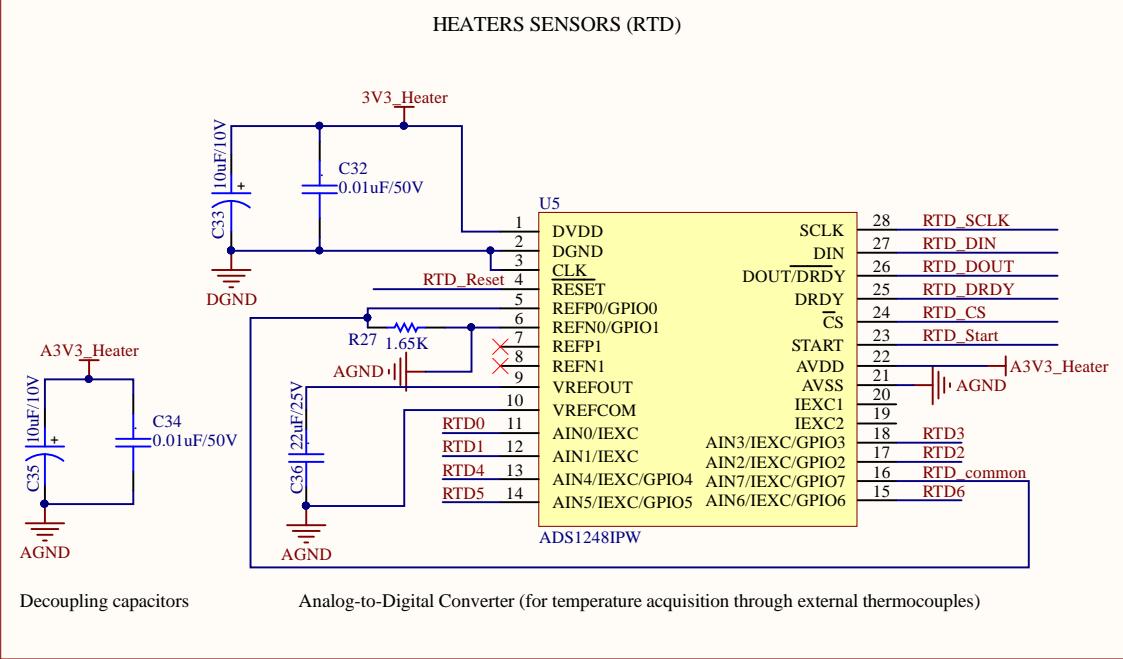
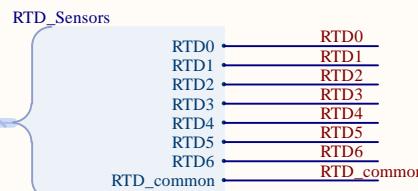


1 2 3 4

A



B

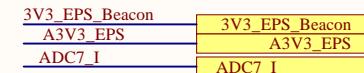
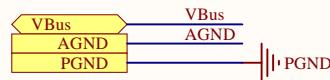


Title <b>Batteries Heater Controller</b>		
Size: A4	Project: FloripaSat	Revision: V0.1
Date: 5/10/2020	Time: 8:02:05 PM	Sheet 7 of 11
Drawn By: Sara V. Martinez	Model: Flight	UFSC - SpaceLab University Campus - Trindade Dep. of Electrical Engineering - CTC Florianópolis, Santa Catarina, Brazil CEP: 88040 - 900

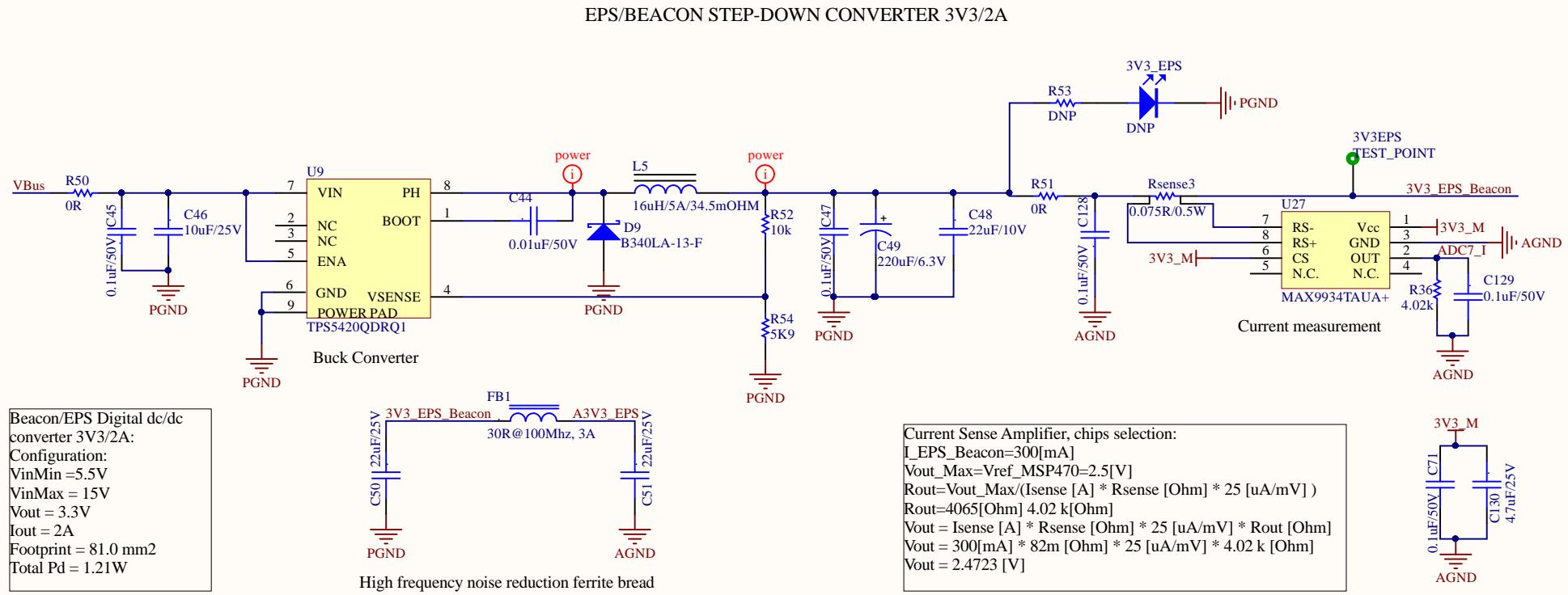


1 2 3 4

A



B

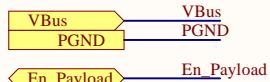
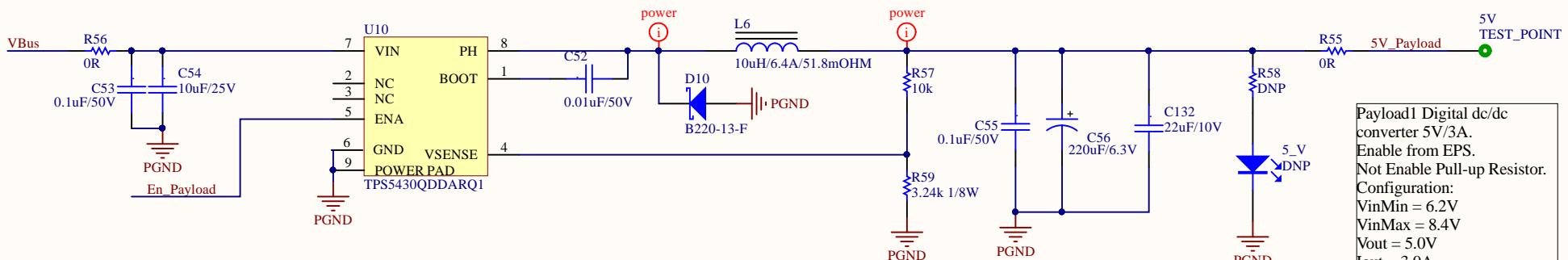


Beacon/EPS Digital dc/dc converter 3V3/2A:  
Configuration:  
VinMin =5.5V  
VinMax = 15V  
Vout = 3.3V  
Iout = 2A  
Footprint = 81.0 mm<sup>2</sup>  
Total Pd = 1.21W

#### Title **EPS/BCM Step-Down Converter**

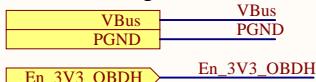
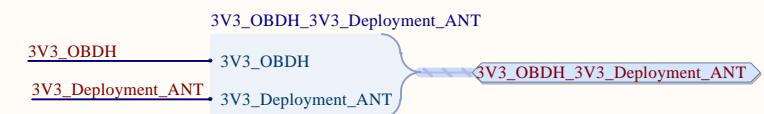
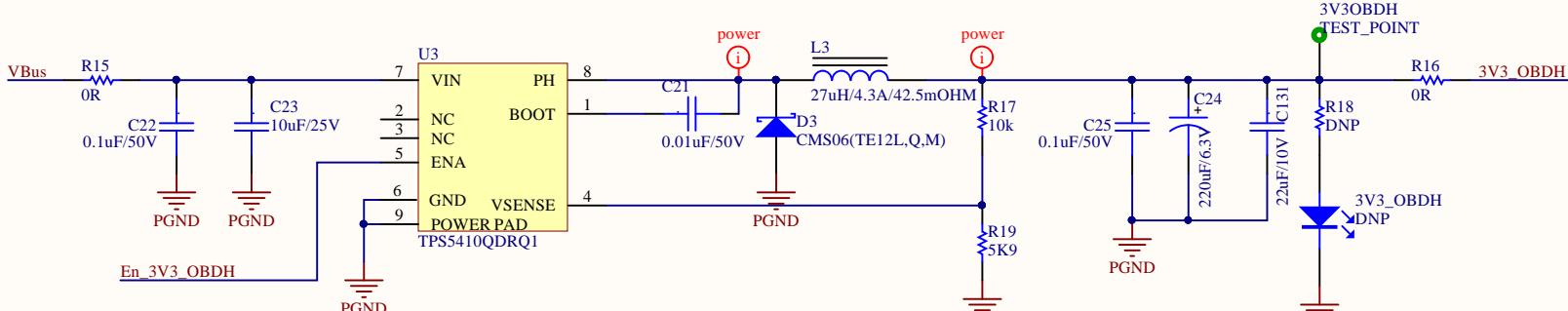
Size: A4	Project: FloripaSat	Revision: V0.1
Date: 5/10/2020	Time: 8:02:05 PM	Sheet 8 of 11
Drawn By: Sara V. Martinez	Model: Flight	UFSC - SpaceLab University Campus - Trindade Dep. of Electrical Engineering - CTC Florianópolis, Santa Catarina, Brazil CEP: 88040 - 900



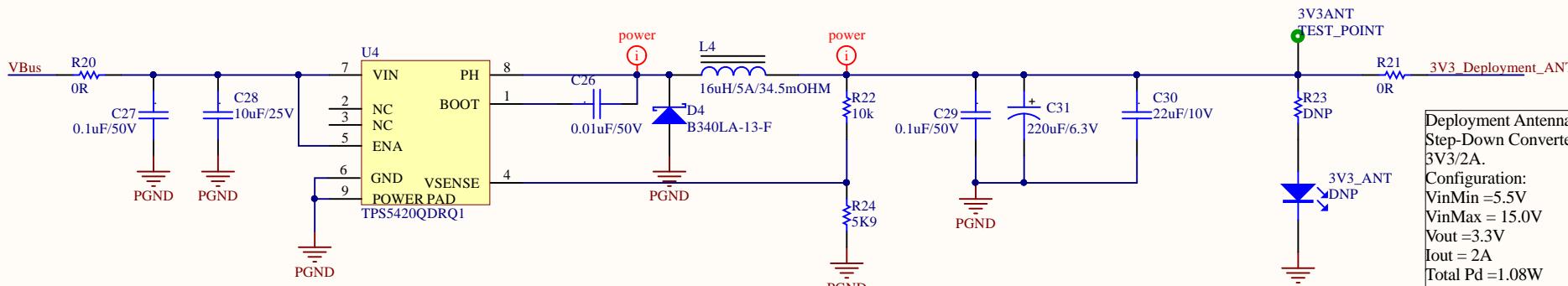
**Input****Output****PAYLOAD STEP-DOWN CONVERTER 5V/3A**

Title <b>Payloads Step-Down Converters 5V/3A</b>		
Size: A4	Project: FloripaSat	Revision: V0.1
Date: 5/10/2020	Time: 8:02:05 PM	Sheet 9 of 11
Drawn By: Sara V. Martinez	Model: Flight	CEP: 88040 - 900



**Input****Output****OBDH STEP-DOWN CONVERTER 3V3/1A**

OBDH Digital dc/dc converter 3V3/1A.  
Enable from EPS.  
Configuration:  
VinMin = 6.5V  
VinMax = 15.0V  
Vout = 3.3V  
Iout = 1A  
Pd = 0.58W

**ANTENNA DEPLOYER STEP-DOWN CONVERTER 3V3/2A**

Deployment Antenna Step-Down Converter 3V3/2A.  
Configuration:  
VinMin = 5.5V  
VinMax = 15.0V  
Vout = 3.3V  
Iout = 2A  
Total Pd = 1.08W

**Title *OBDH Step-Down 3V3/1A/2A***

Size: A4	Project: FloripaSat	Revision: V0.1
Date: 5/10/2020	Time: 8:02:06 PM	Sheet 10 of 11
Drawn By: Sara V. Martinez	Model: Flight	CEP: 88040 - 900



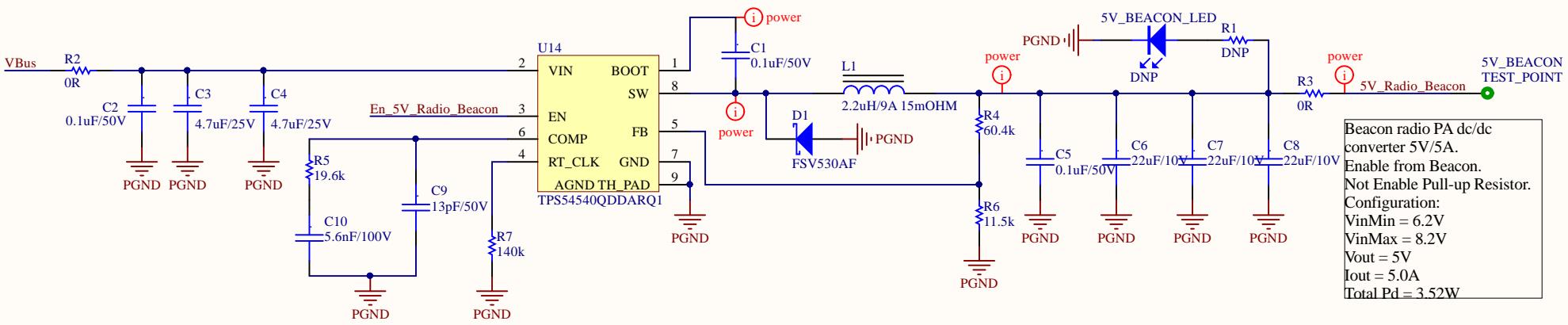
## Input



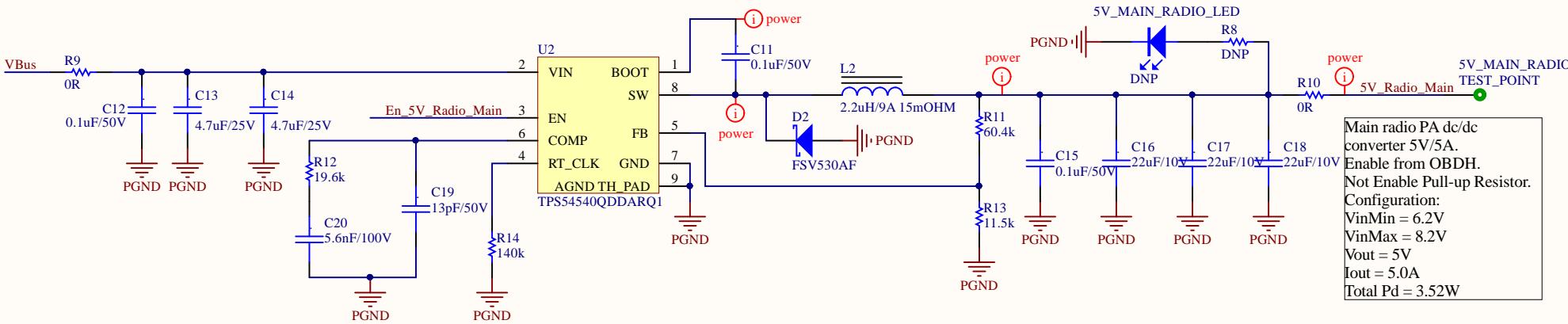
## Output



## BEACON RADIO STEP-DOWN CONVERTER 5V/5A



## MAIN RADIO STEP-DOWN CONVERTER 5V/5A

Title **Radios Step-Down Converters 5V/3A**

Size: A4	Project: FloripaSat	Revision: V0.1
Date: 5/10/2020	Time: 8:02:06 PM	Sheet 11 of 11
Drawn By: Sara V. Martinez	Model: Flight	CEP: 88040 - 900



