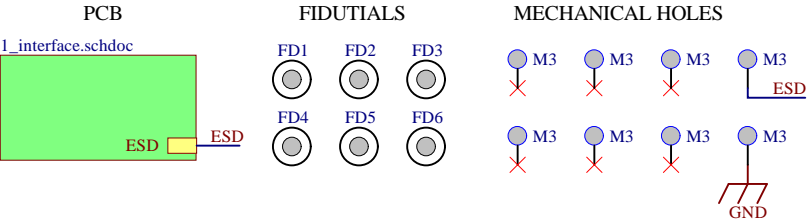


Rev	Description	Date	Author
0.5	- Update templates. - Add missing schematic to layout elements. - Update PC-104 interface. - Review circuits and architecture.	26-Aug-2020	Andre M. P. Mattos

Revision History

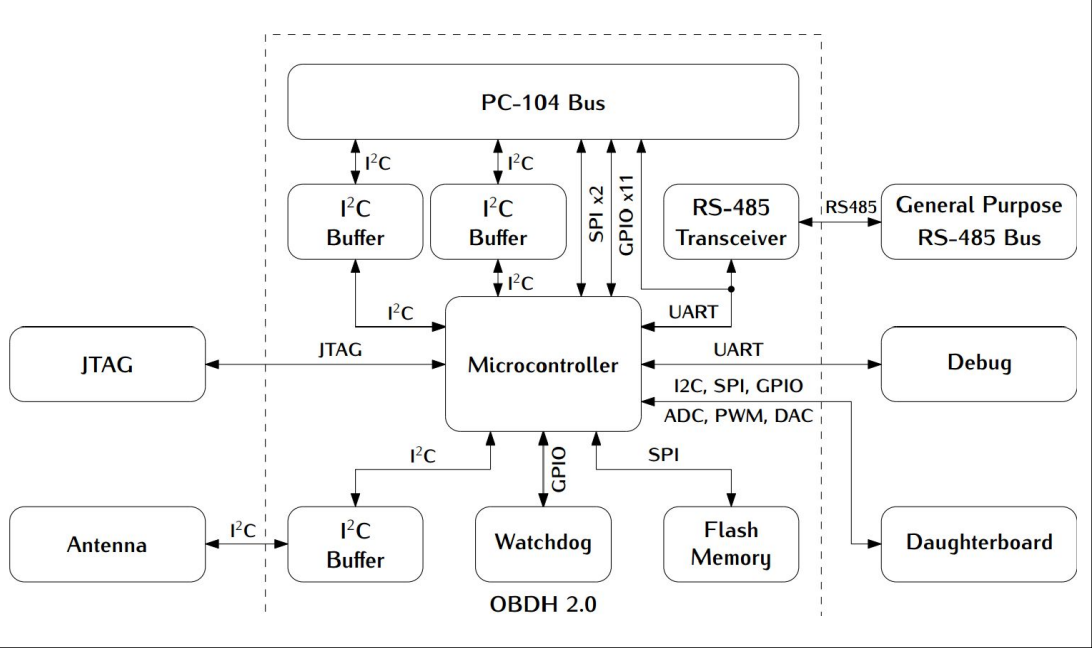


PCB Elements

OBDH2 Hardware:

- Drawn by: André M. P. Mattos
- Reviewers: Cezar A. Rigo, Kleber Gouveia and Yan C. Azeredo
- Based on FloripaSat-I OBDH designed by: Sara V. Martinez
- Support: Gabriel M. Marcelino

Project Contributions



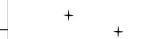
Block Diagram

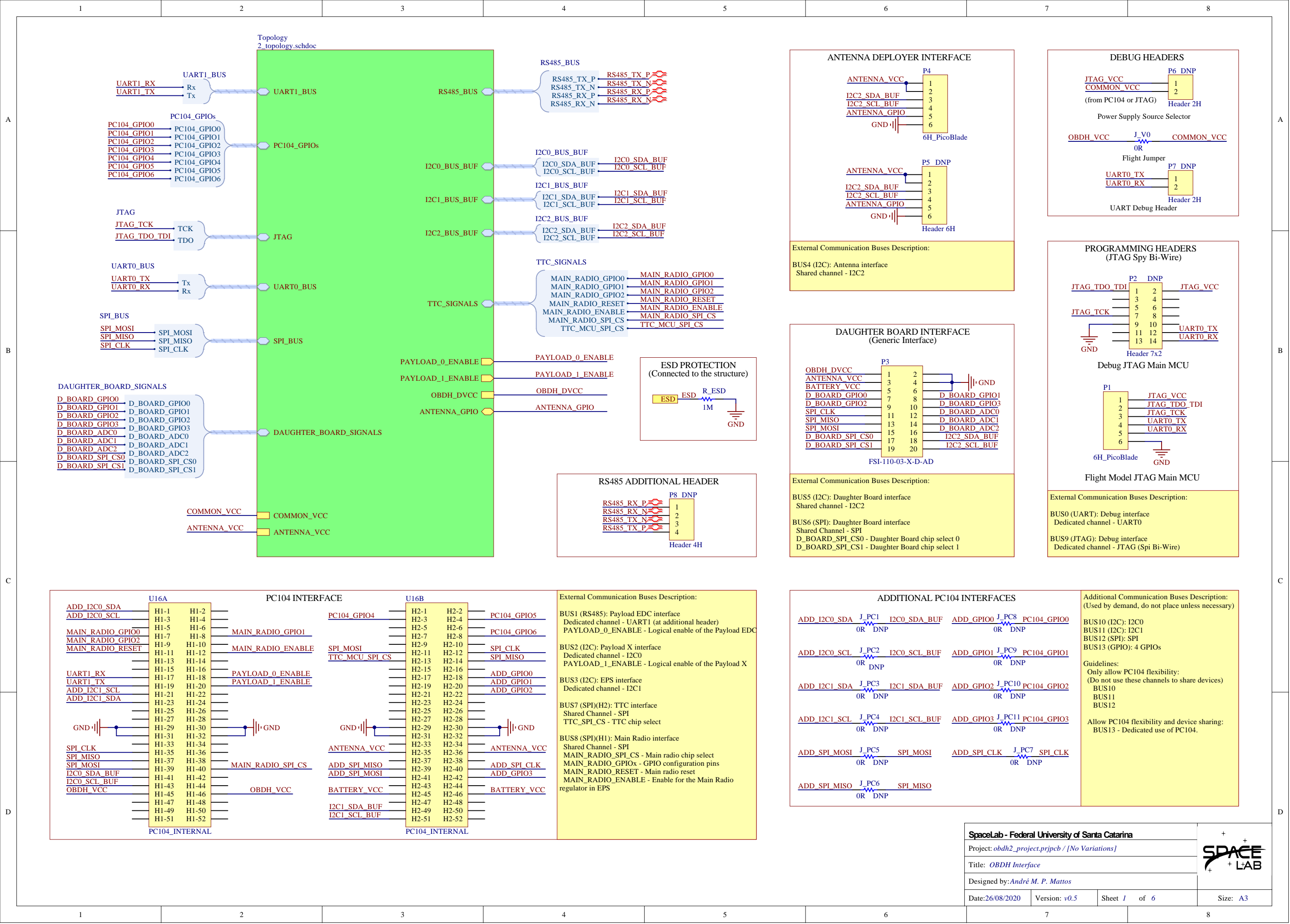
Copyright © 2019  
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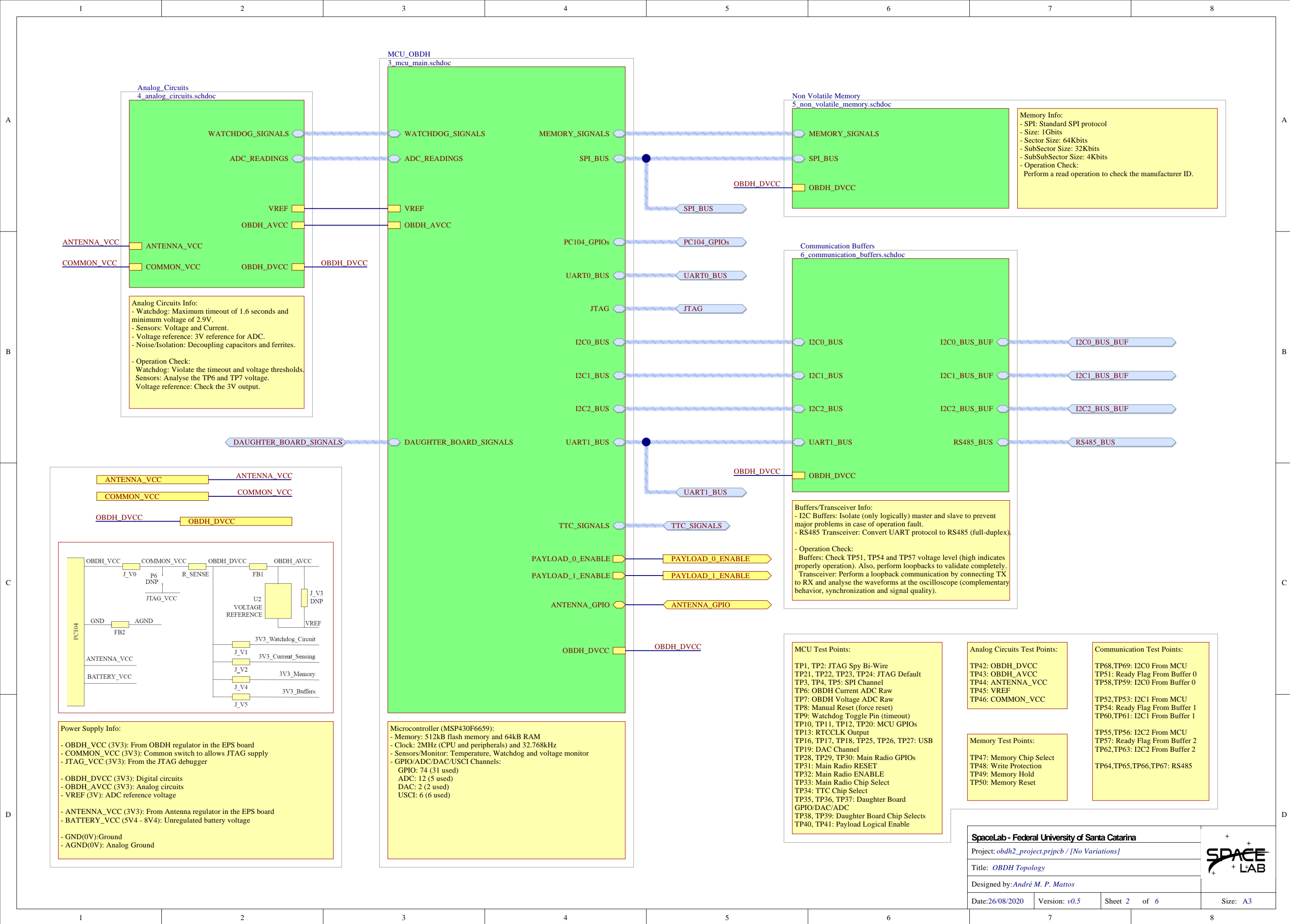
OBDH2 Hardware  
Based on the FloripaSat-I OBDH 2.0

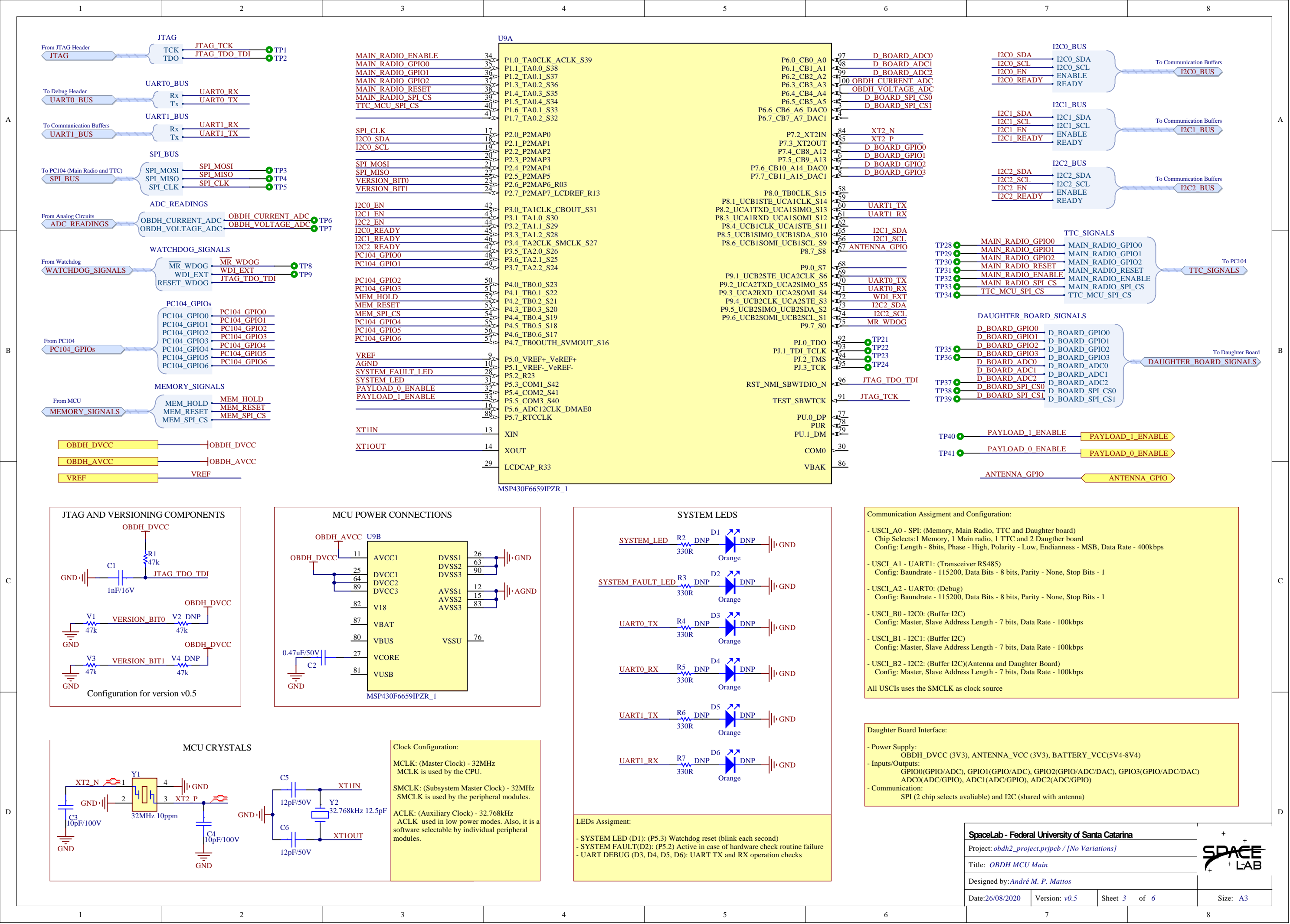
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Project Information

SpaceLab - Federal University of Santa Catarina			
Project: <i>obdh2_project.pripcb</i> / [No Variations]			
Title: <i>OBDH Hardware Architecture</i>			
Designed by: <i>André M. P. Mattos</i>			
Date: <i>26/08/2020</i>	Version: <i>v0.5</i>	Sheet <i>0</i> of <i>6</i>	Size: <i>A4</i>









A

B

C

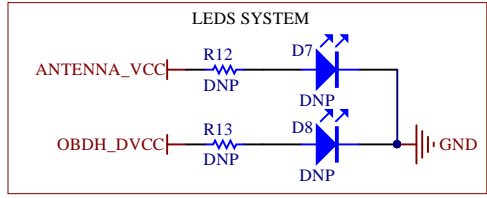
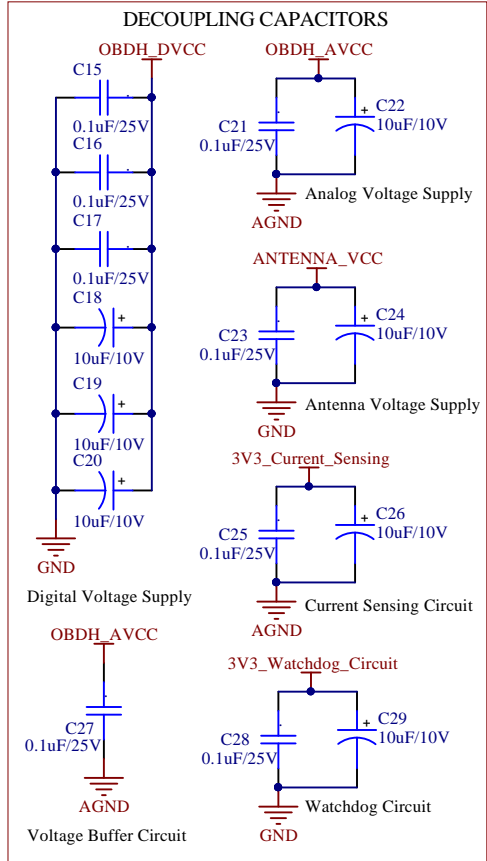
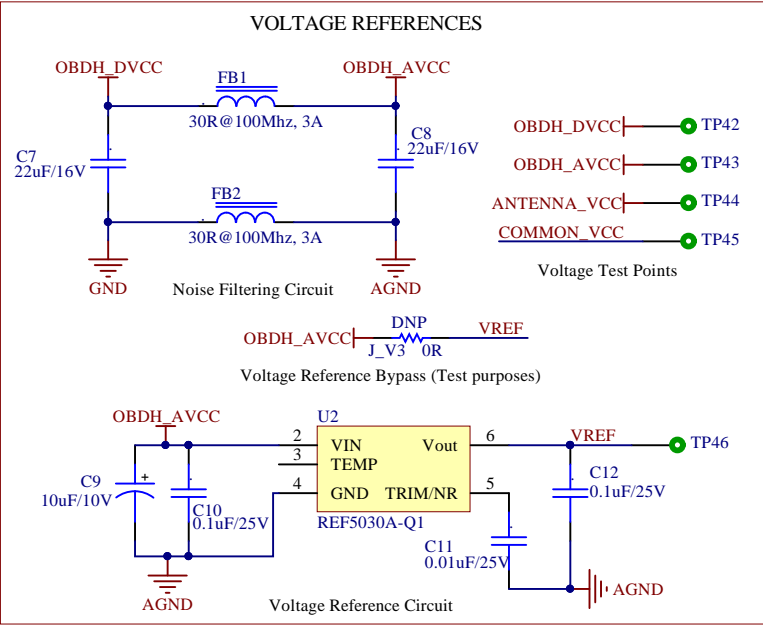
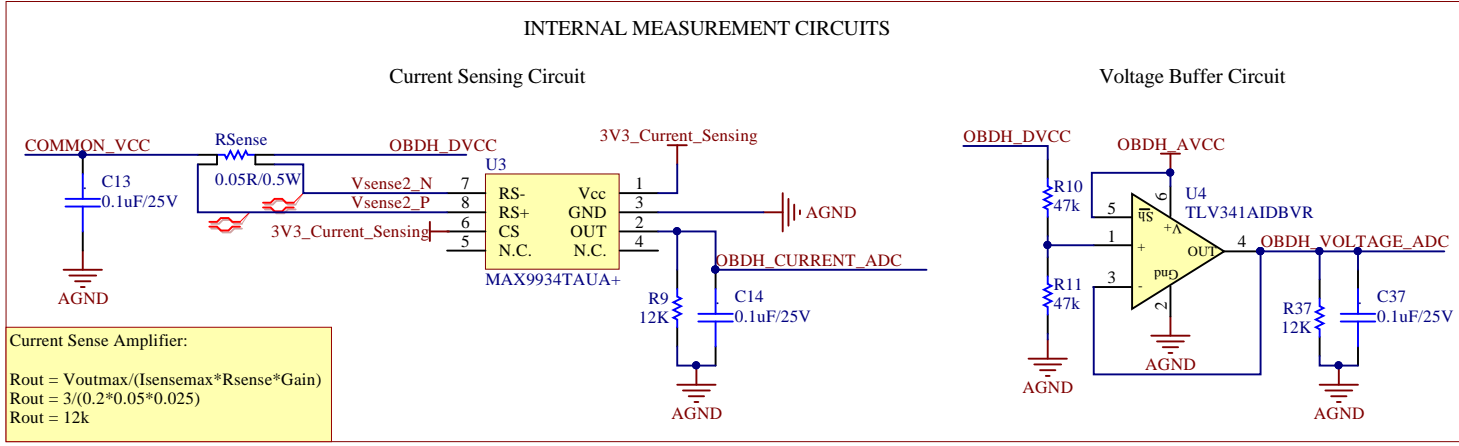
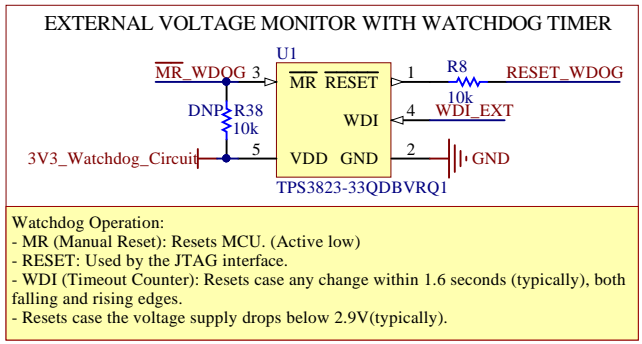
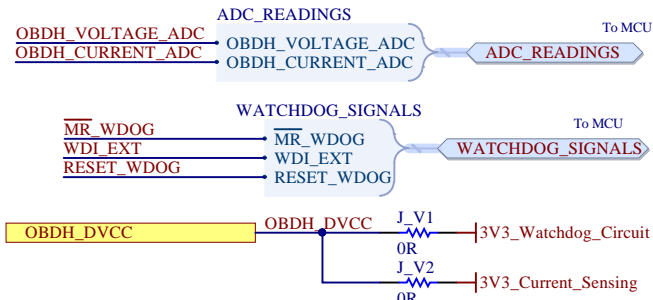
D

A

B

C

D



A

A

B

B

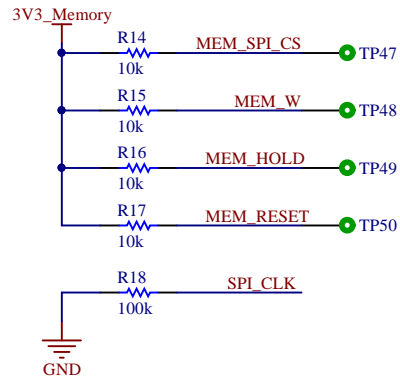
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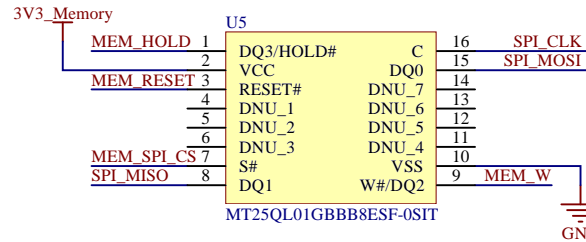
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D

PULL-UP AND PULL-DOWN RESISTORS

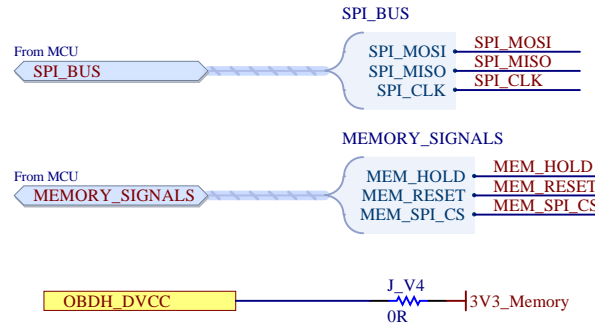
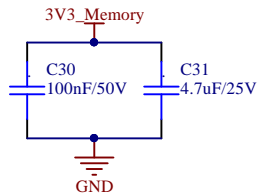


NON-VOLATILE MEMORY



Memory Operation:  
To be defined

DECOUPLING CAPACITORS



SpaceLab - Federal University of Santa Catarina

Project: obdh2\_project.pripcb / [No Variations]

Title: Non Volatile Memory

Designed by: André M. P. Mattos

Date: 26/08/2020

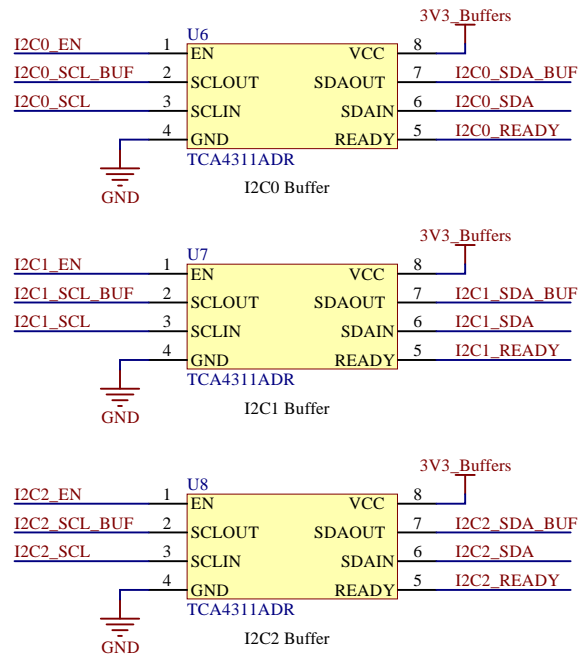
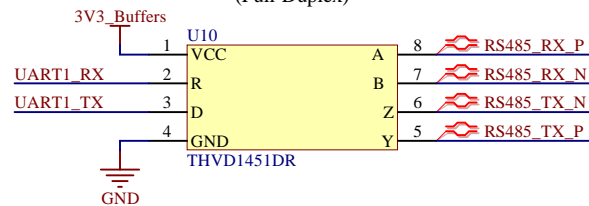
Version: v0.5

Sheet 5 of 6

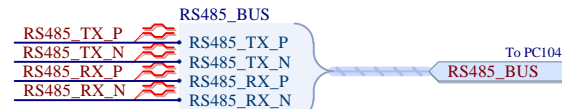
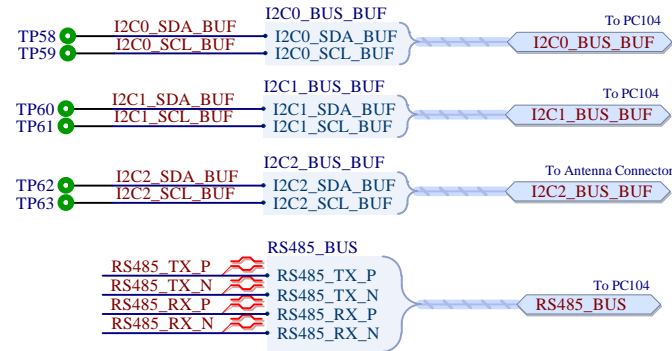
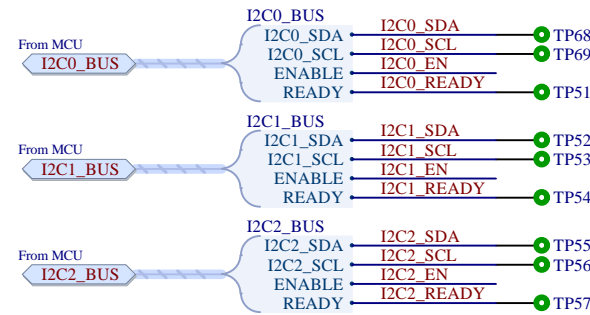
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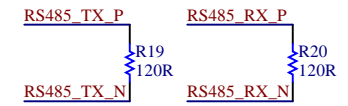
## I2C BUFFERS

RS485 TRANSCEIVER  
(Full-Duplex)

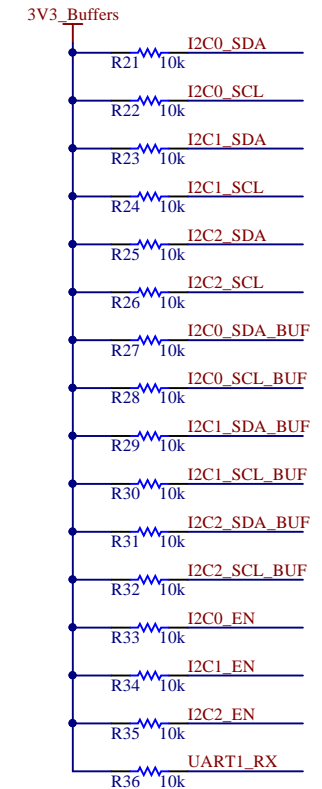
## UART1\_BUS



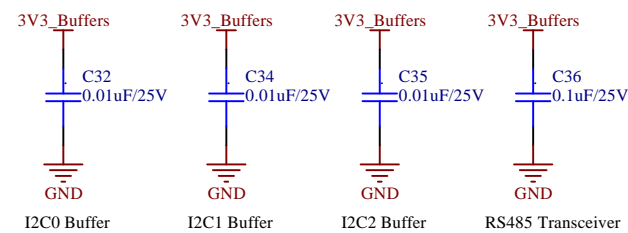
## TERMINATION RESISTORS



## PULL-UP RESISTORS



## DECOUPLING CAPACITORS



SpaceLab - Federal University of Santa Catarina

Project: obdh2\_project.pripcb / [No Variations]

Title: Communication Buffers

Designed by: André M. P. Mattos

Date: 26/08/2020

Version: v0.5

Sheet 6 of 6

Size: A4

