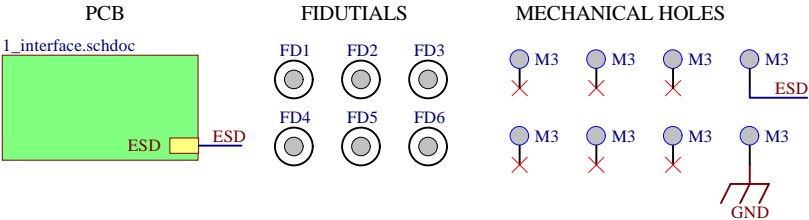


Rev	Description	Date	Author
0.5	- Update templates. - Add missing schematic to layout elements. - Update PC-104 interface. - Review circuits and architecture.	26-Aug-2020	Andre M. P. Mattos

Revision History

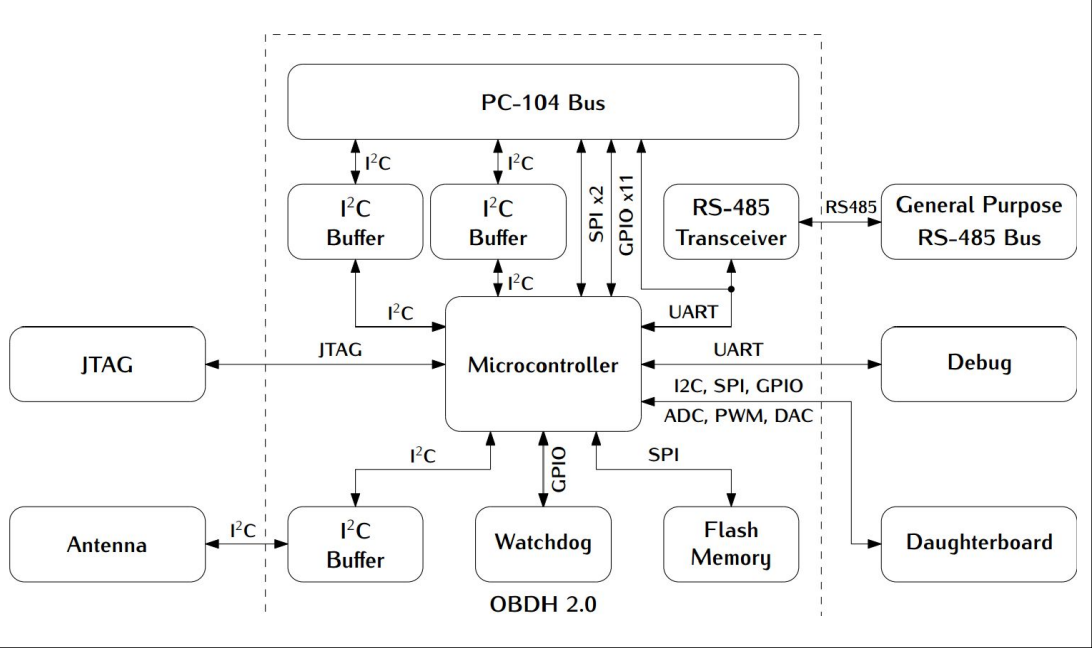


PCB Elements

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

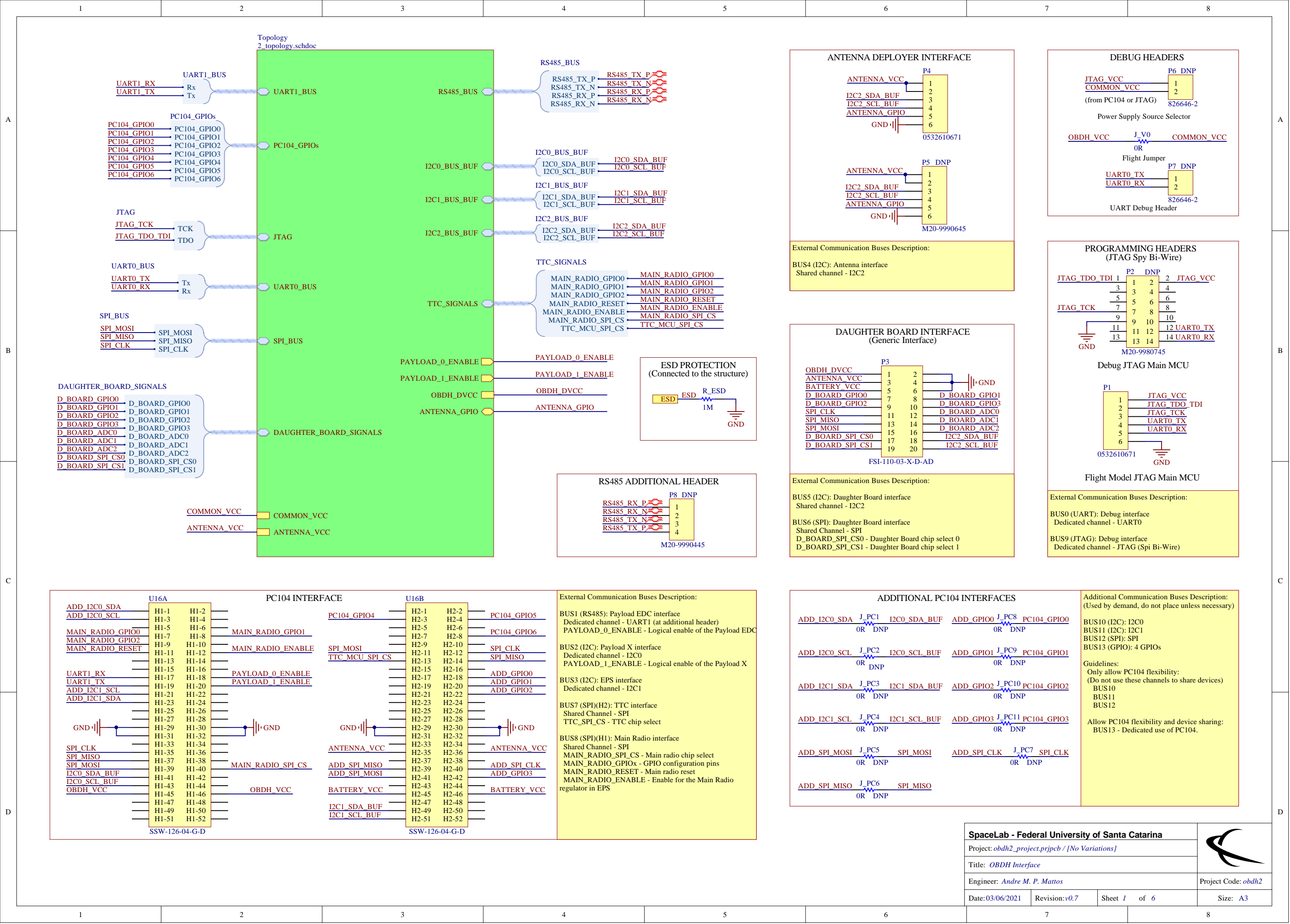
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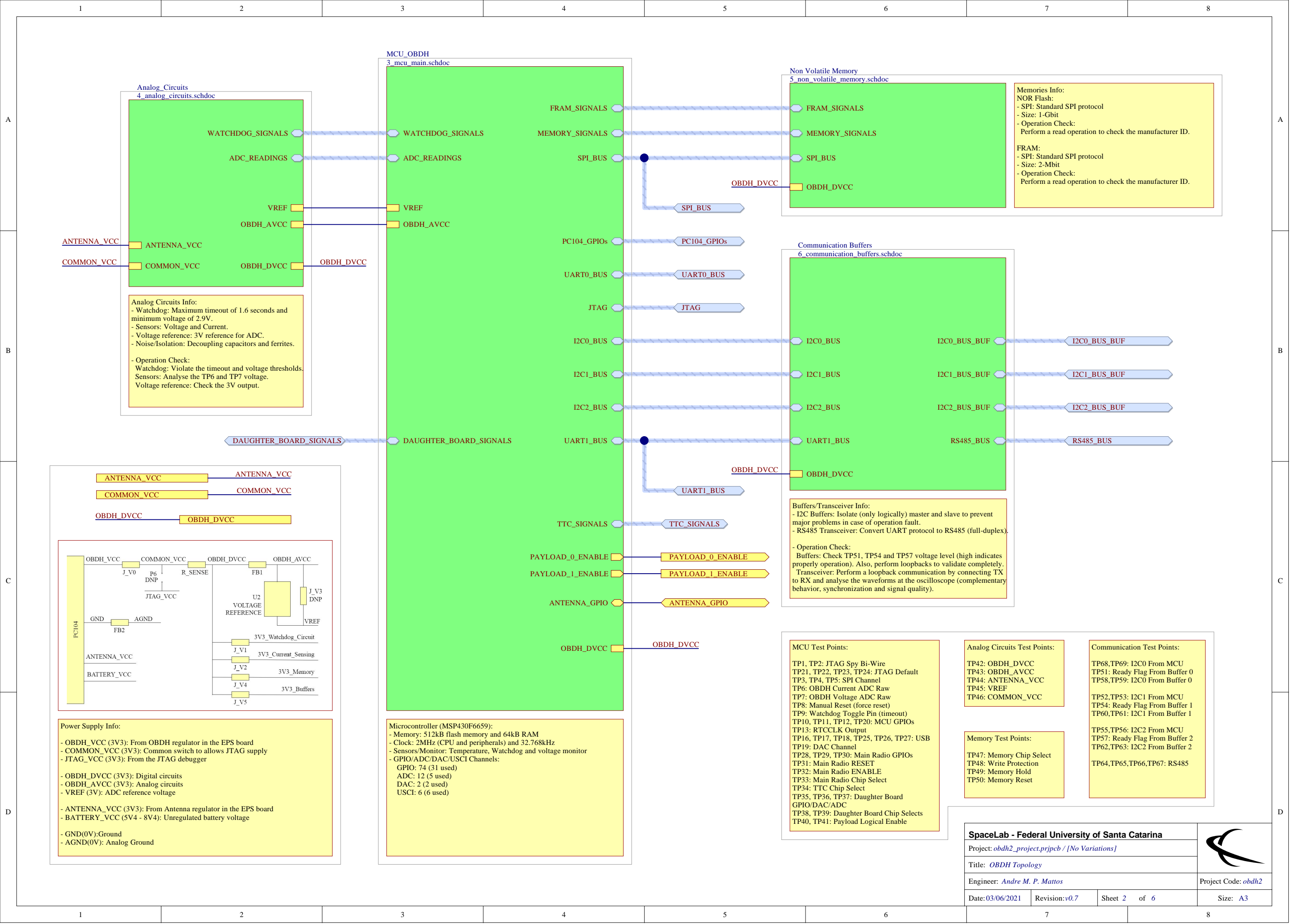
OBDH2 Hardware  
Based on the FloripaSat-I OBDH 2.0

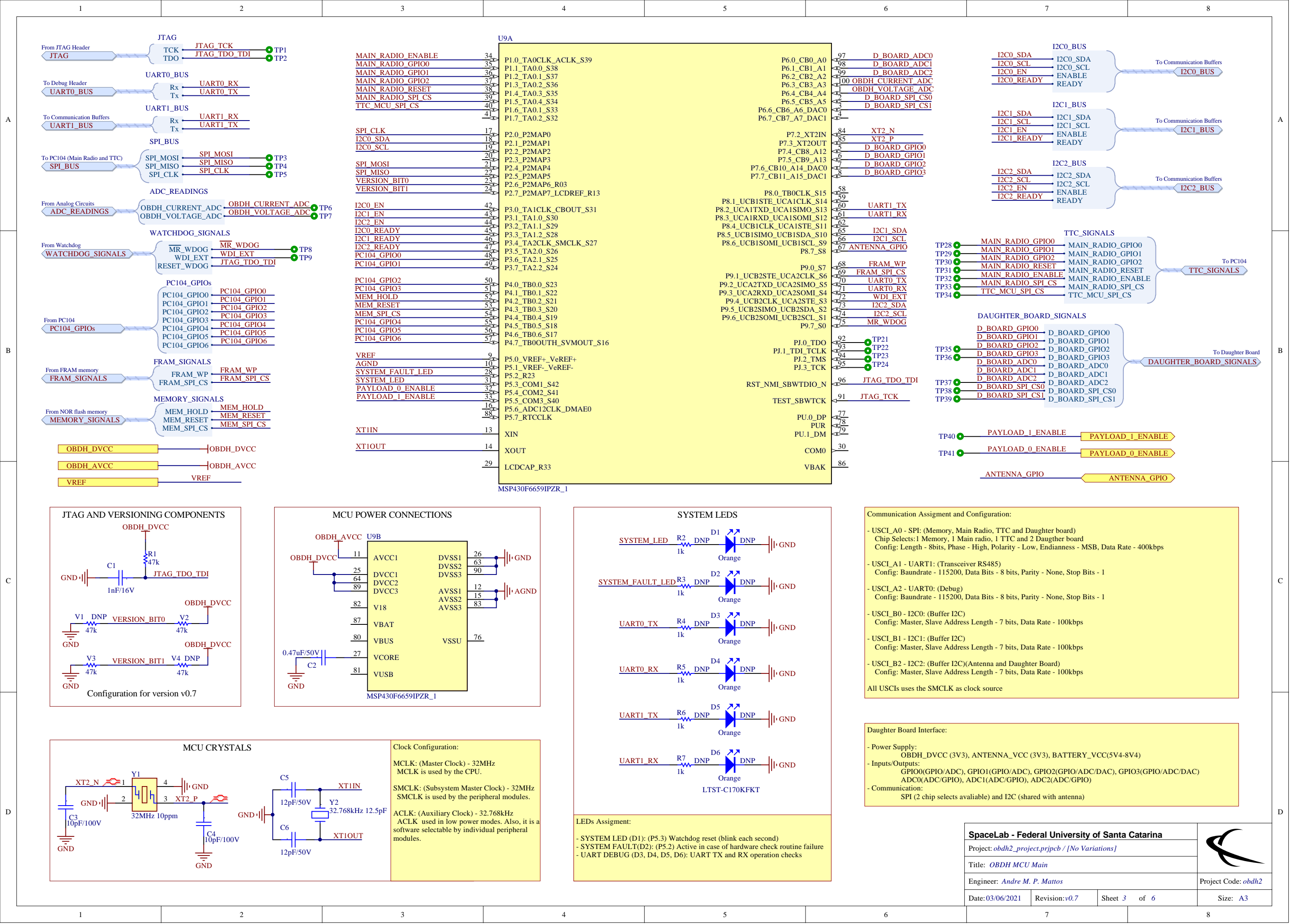
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Project Information

SpaceLab - Federal University of Santa Catarina			
Project: <i>obdh2_project.pripcb</i> / [No Variations]			
Title: <i>OBDH Hardware Architecture</i>			
Designed by: <i>Andre M. P. Mattos</i>			Project Code: <i>obdh2</i>
Date: <i>03/06/2021</i>	Revision: <i>v0.7</i>	Sheet <i>0</i> of <i>6</i>	Size: <i>A4</i>









A

B

C

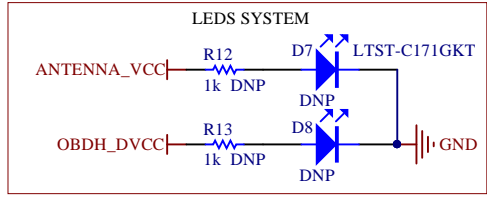
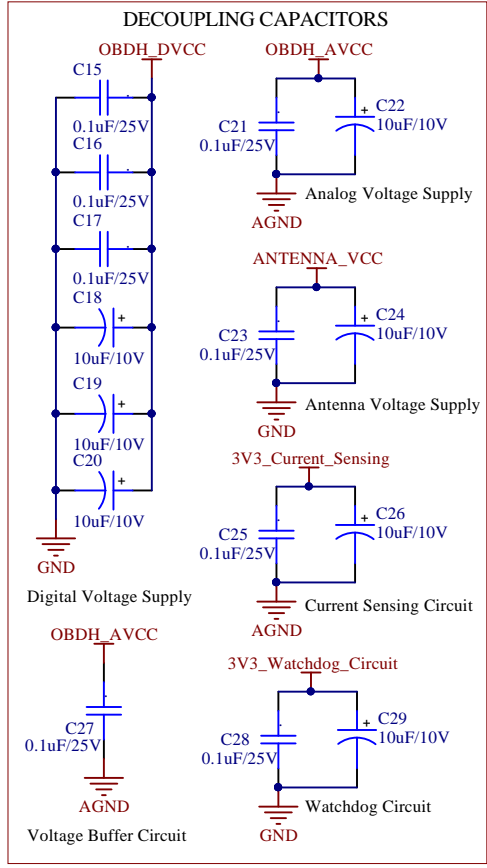
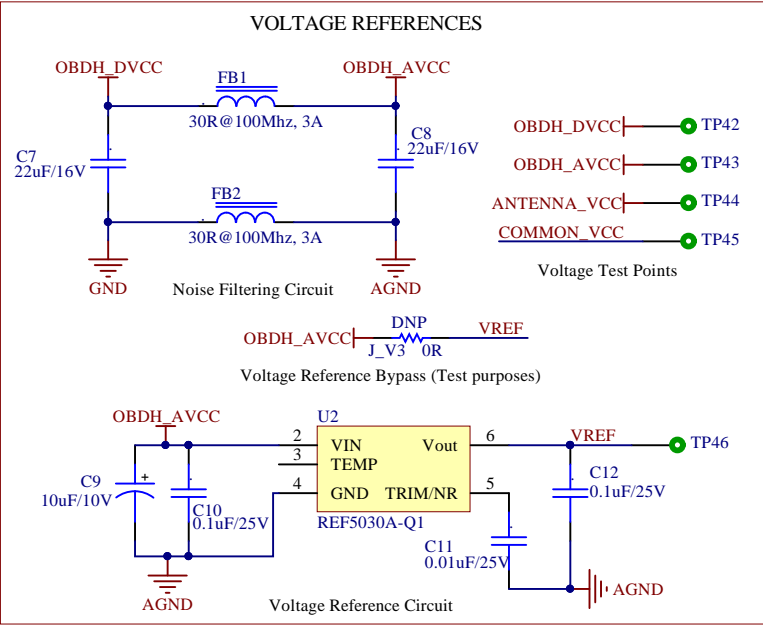
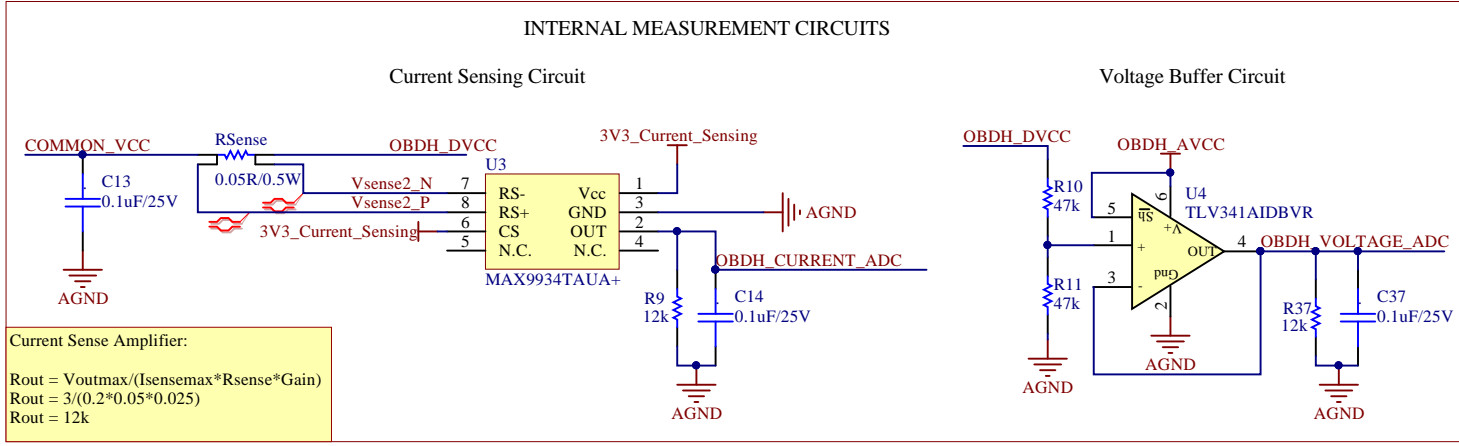
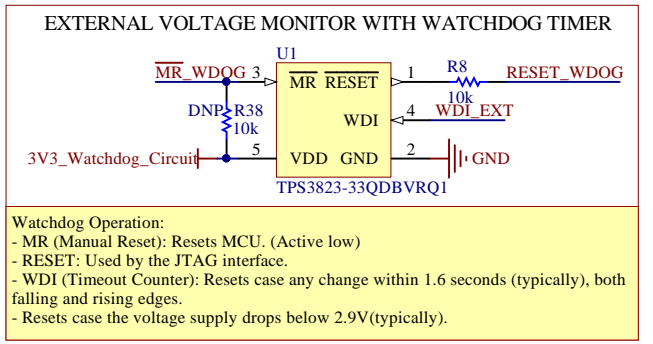
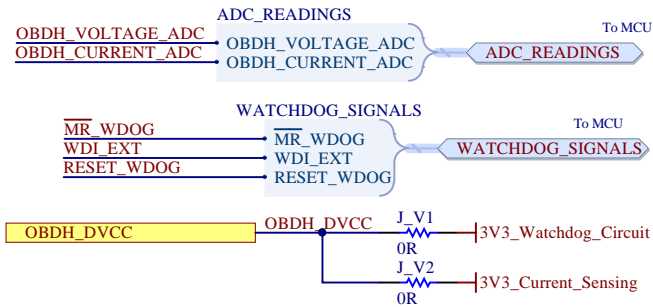
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A

B

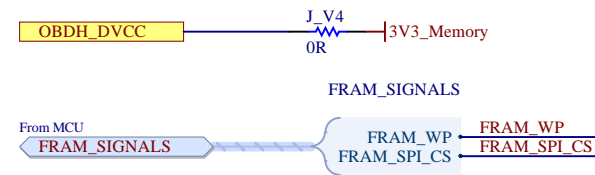
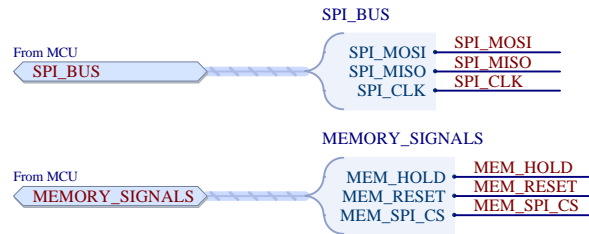
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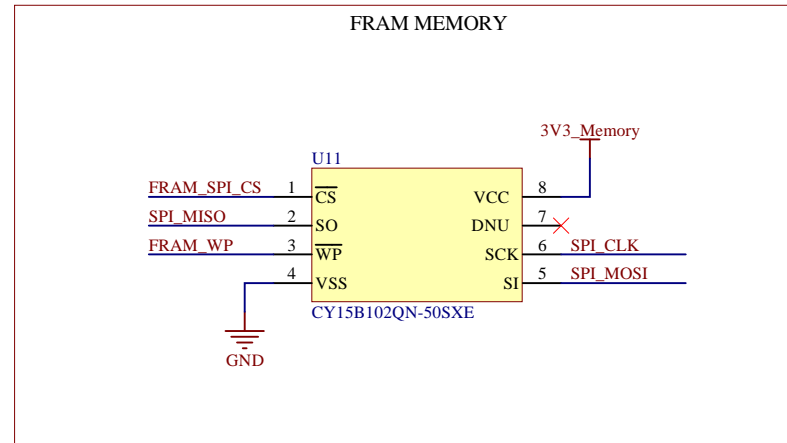
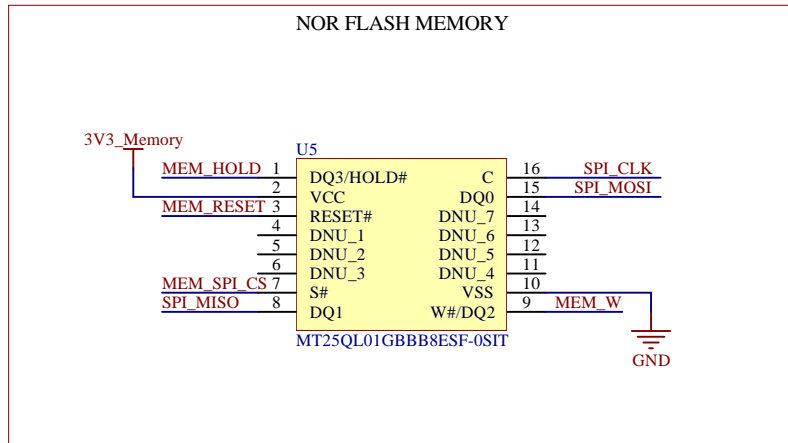


SpaceLab - Federal University of Santa Catarina			
Project: <i>obdh2_project.pripcb</i> / <i>[No Variations]</i>			
Title: <i>Analog Circuits</i>			
Designed by: <i>Andre M. P. Mattos</i>			
			Project Code: <i>obdh2</i>
Date: <i>03/06/2021</i>	Revision: <i>v0.7</i>	Sheet <i>4</i> of <i>6</i>	Size: <i>A4</i>

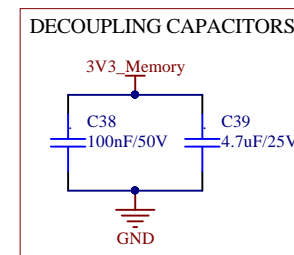
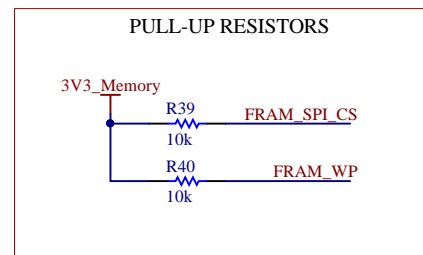
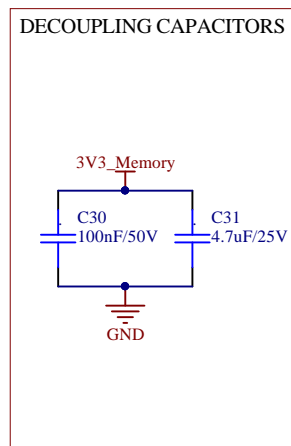
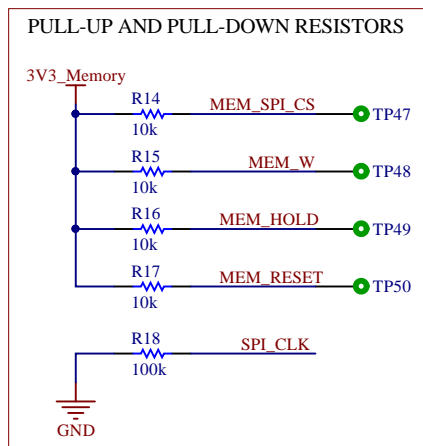
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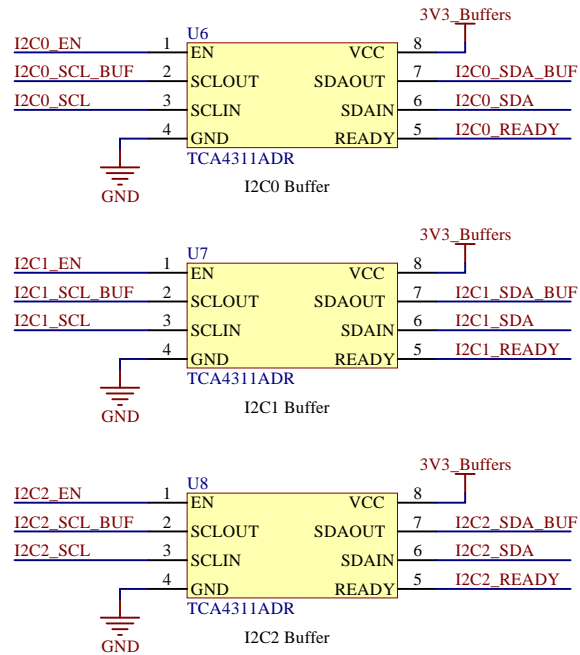
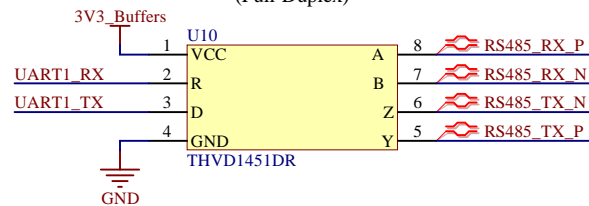
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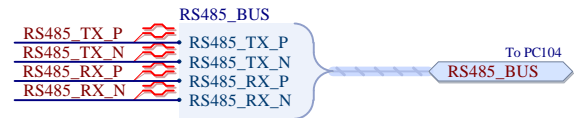
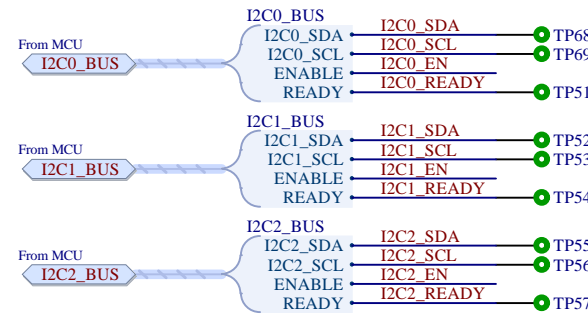
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SpaceLab - Federal University of Santa Catarina			
Project: <i>obdh2_project.pripcb / [No Variations]</i>			
Title: <i>Non Volatile Memory</i>			
Designed by: <i>Andre M. P. Mattos</i>			
Date: 03/06/2021	Revision: v0.7	Sheet 5 of 6	Project Code: <i>obdh2</i>
			Size: A4

## I2C BUFFERS

RS485 TRANSCEIVER  
(Full-Duplex)

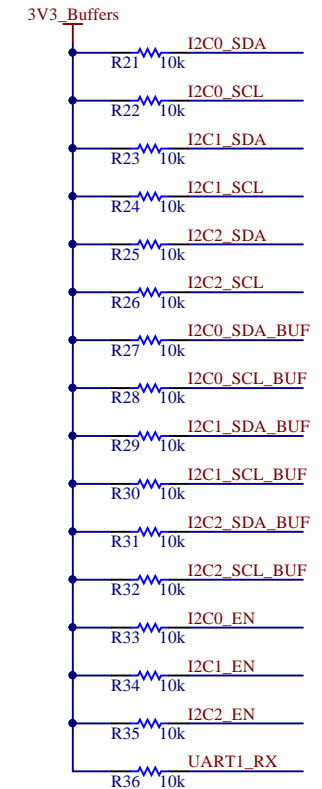
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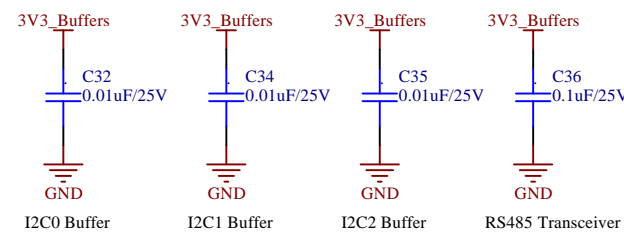
## TERMINATION RESISTORS



## PULL-UP RESISTORS



## DECOUPLING CAPACITORS



SpaceLab - Federal University of Santa Catarina

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

Title: Communication Buffers

Designed by: Andre M. P. Mattos

Date: 03/06/2021

Revision: v0.7

Sheet 6 of 6

Project Code: obdh2

Size: A4