

# OBDDH

A

B

C

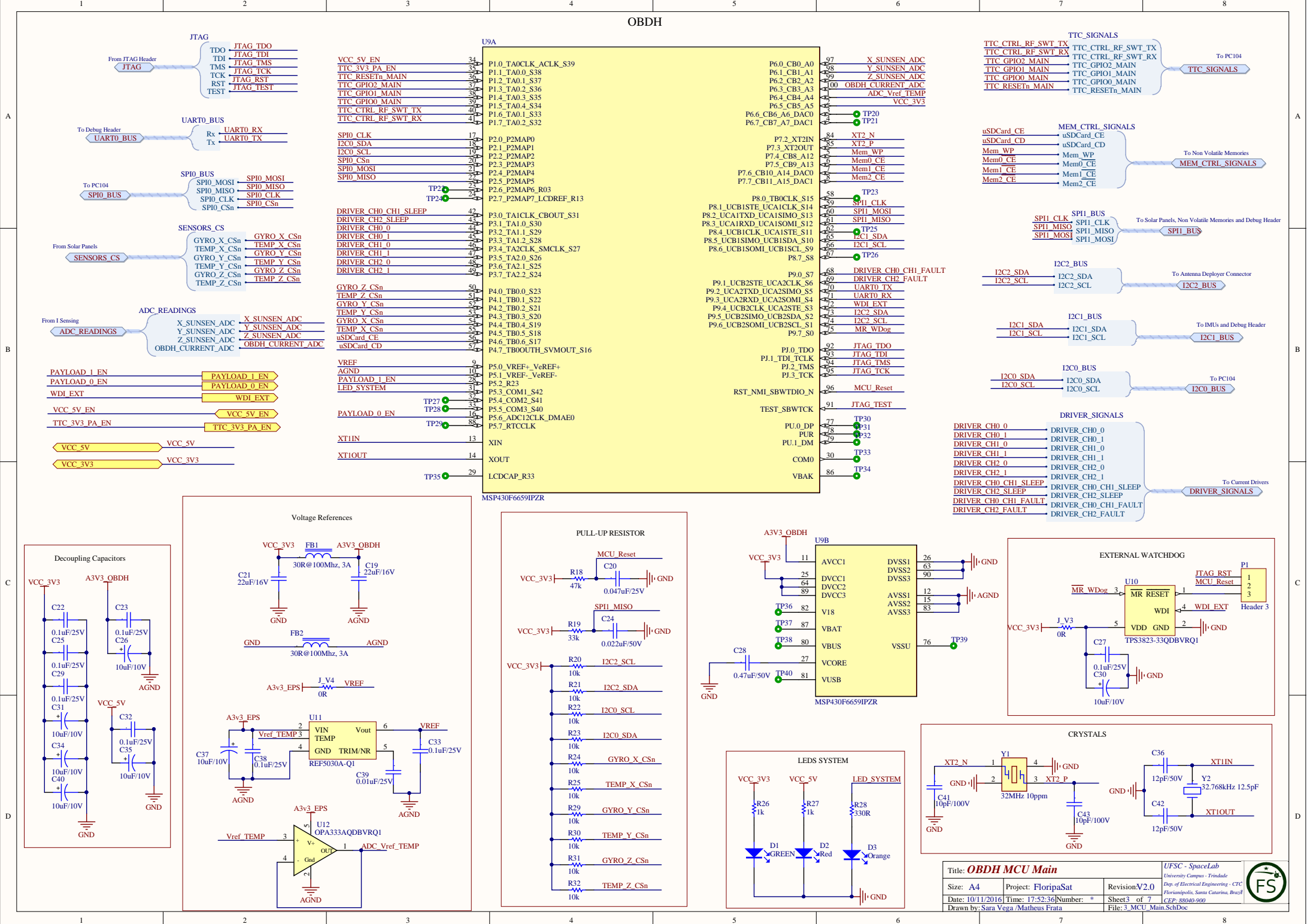
D

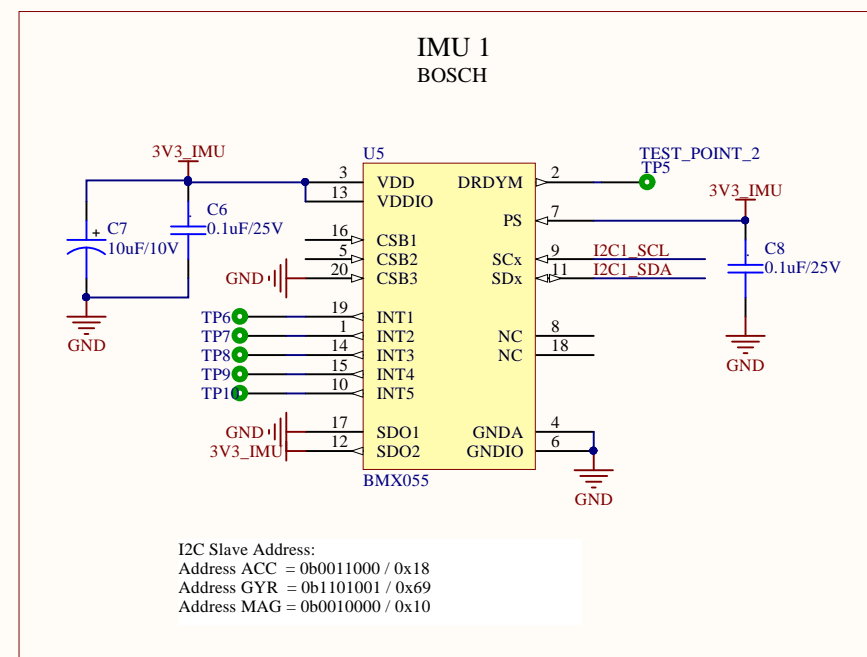
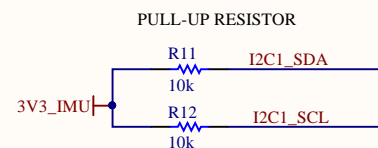
A


B

C

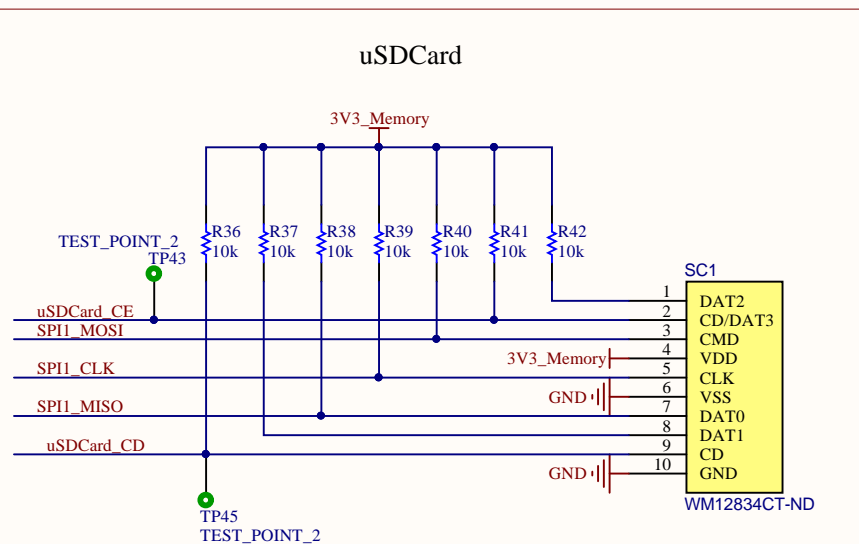
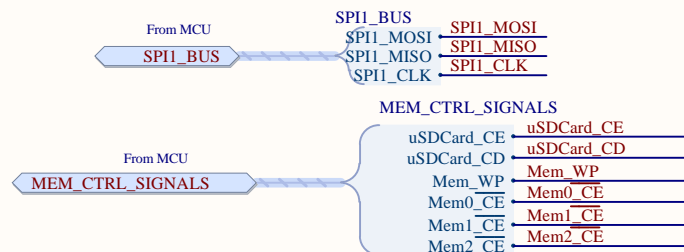
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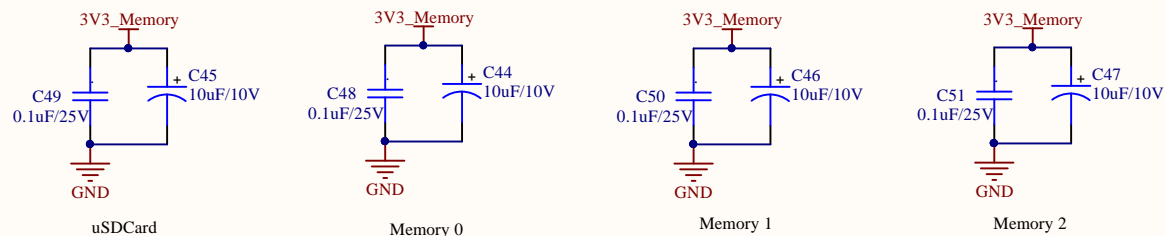


Title: <i>IMUs</i>			UFSC - SpaceLab University Campus - Trindade Dep. of Electrical Engineering - CTC Florianópolis, Santa Catarina, Brazil CEP: 88040-900		
Size: A4	Project: FloripaSat	Revision: V2.0			
Date: 10/11/2016	Time: 17:52:37	Number: *	Sheet 4 of 7		
Drawn by: Sara Vega/ Matheus Frata			File: 4_IMU.SchDoc		

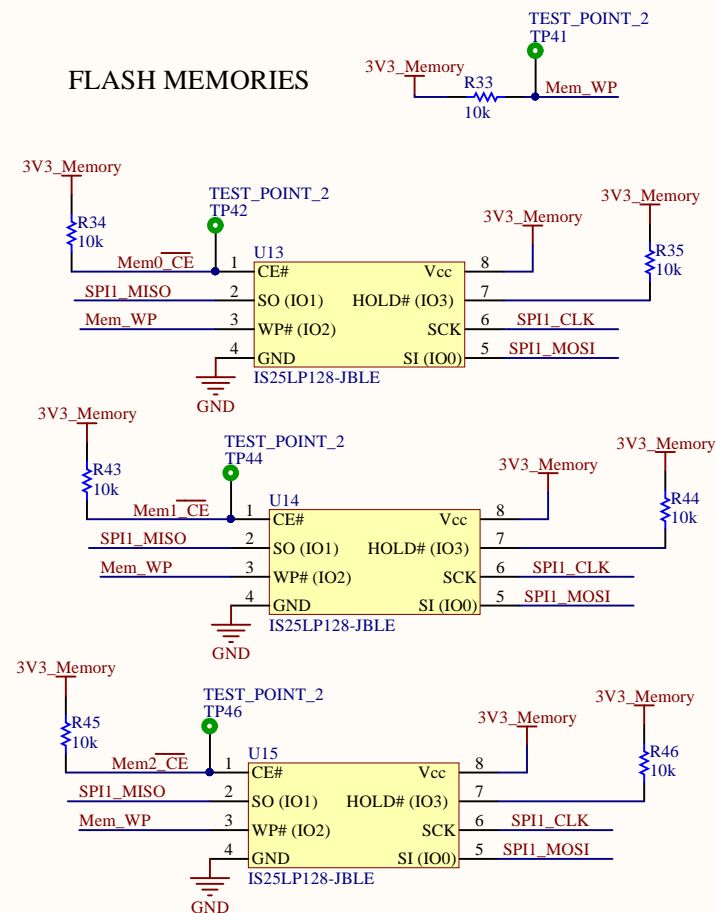




### Decoupling Capacitors



### FLASH MEMORIES



Title: **Non Volatile Memory**

Size: A4

Project: FloripaSat

Revision: V2.0

Date: 10/11/2016

Time: 17:52:37

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Sheet 5 of 7

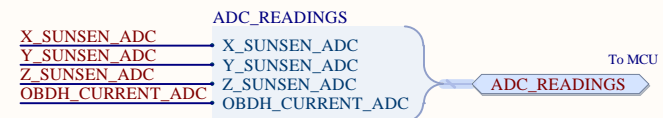
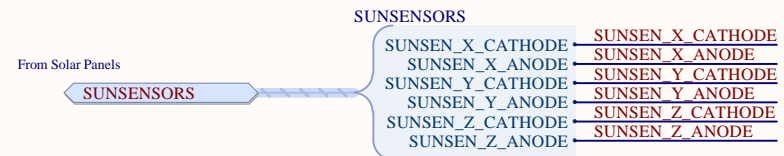
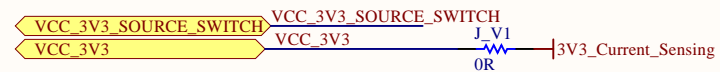
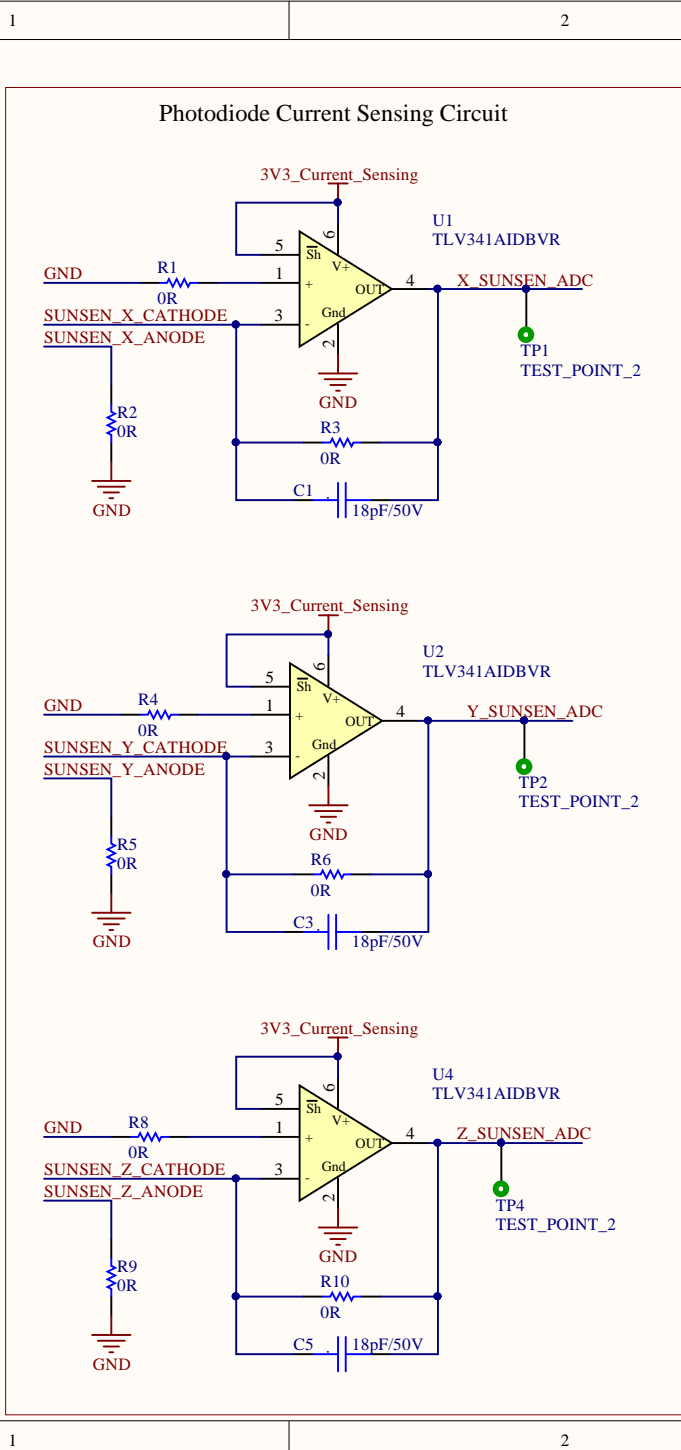
File: 5\_Non\_Volatile\_Memory.SchDoc

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

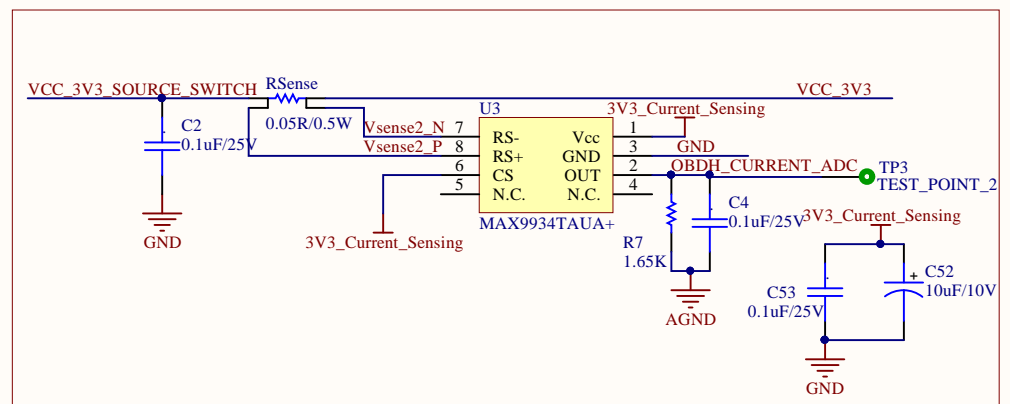








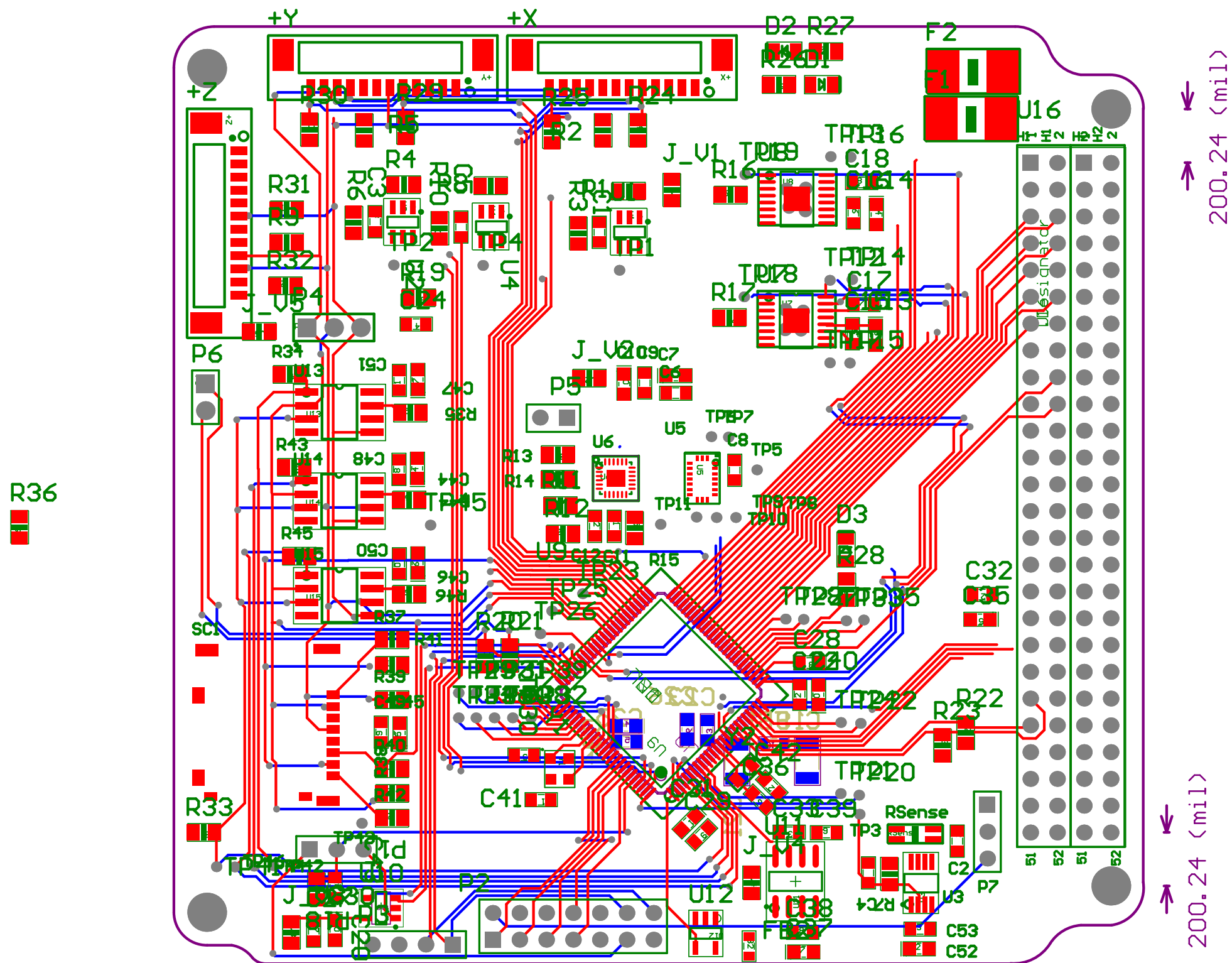
OBDH Consumption Current Circuit



Title: <b>Current Sensing</b>			UFSC - SpaceLab	
Size: A4			University Campus - Trindade	
Project: FloripaSat			Dep. of Electrical Engineering - CTC	
Date: 10/11/2016			Florianópolis, Santa Catarina, Brazil	
Time: 17:52:37			CEP: 88040-900	
Number: *				
Sheet 7 of 7				
Drawn by: Sara Vega/Matheus			File: 7_Current_Sensing.SchDoc	







# Bill of Materials

Bill of Materials For Project [PCB\_Eng\_Model\_OBDH\_2.PrjPcb] (No PCB Document Selected)

Source Data From:	PCB_Eng_Model_OBDH_2.PrjPcb
Project:	PCB_Eng_Model_OBDH_2.PrjPcb
Variant:	None

Creation Date: 10/11/2016 17:52:41  
Print Date: 10-Nov-16 5:52:44 PM

#Column Nam	Footprint	Comment	#Column Name Error:Partnumber	Designator	Description	Quantity
	HDR12 PicoBlade	Header		+X, +Y, +Z	Header, 12-Pin	3
	- duplicate	12_PicoBlade				
	CC0805	18pF/50V		C1, C3, C5	CAP CER 18pF 50V 5% X7R 0805	3
	CC0805	0.1uF/25V		C2, C4, C6, C8, C9, C12, C22, C23, C25, C27, C29, C32, C33, C38, C48, C49, C50, C51, C53	CAP CER 0.1UF 25V 10% X7R 0805	19
	CC0805_Tantalum	10uF/10V		C7, C10, C13, C14, C26, C30, C31, C34, C35, C37, C40, C44, C45, C46, C47, C52	CAP Tantalum 10uF 10V 20% 0805, CAP Tantalum 10uF 10V 20% 0805, CAP Tantalum 10uF 10V 20% 0805, CAP Tantalum 10uF 10V 20% 0805, CAP Tantalum 10uF 6.3V 10% 0805, CAP Tantalum 10uF 6.3V 10% 0805, CAP Tantalum 10uF 6.3V 10% 0805, CAP Tantalum 10uF 6.3V 10% 0805, CAP Tantalum 10uF 6.3V 10% 0805, CAP Tantalum 10uF 6.3V 10% 0805, CAP Tantalum 10uF 6.3V 10% 0805, CAP Tantalum 10uF 6.3V 10% 0805, CAP Tantalum 10uF 6.3V 10% 0805, CAP Tantalum 10uF 10V 20% 0805, CAP Tantalum 10uF 10V 20% 0805, CAP Tantalum 10uF 10V 20% 0805, CAP Tantalum 10uF 10V 20% 0805, CAP Tantalum 10uF 10V 20% 0805, CAP Tantalum 10uF 10V 20% 0805, CAP Tantalum 10uF 10V 20% 0805	16
	CC0805	0.01uF/25V		C11, C39	CAP CER 0.01uF 25V 10% X7R 0805	2
	CC0805	0.01uF/50V		C15, C16	CAP CER 0.01uF 50V 10% X7R 0805	2
	CC0805	2.2uF/16V		C17, C18	CAP CER 2.2uF 16V 0805	2
	CC1210	22uF/16V		C19, C21	CAP CER 22uF 16V 10% X7R 1210	2
	CC0805	0.047uF/25V		C20	CAP CER 0.047UF 25V 5% X7R 0805	1
	CC0805	0.022uF/50V		C24	CAP CER 0.022UF 50V 5% X7R 0805	1
	CC0805	0.47uF/50V		C28	CAP CER 0.47UF 50V 10% X7R 0805	1
	CC0805	12pF/50V		C36, C42	CAP CER 12pF 50V 0805	2
	CC0805	10pF/100V		C41, C43	CAP CER 10pF 100V 0805	2
	0805-LED	GREEN		D1	SMD Green LED	1
	0805-LED	Red		D2	SMD Green LED	1
	0805-LED	Orange		D3	SMD Orange LED	1
	fuse	Fuse/4A		F1, F2	Surface Mount Fuses SMD FA 4A	2
	IND0805	30R@100Mhz, 3A		FB1, FB2	Ferrite Bead 30 OHM 3A 100MHz	2
	0805	0R		J_V1, J_V2, J_V3, J_V4, J_V5, R1, R2, R3, R4, R5, R6, R8, R9, R10, R13, R14, R15	RES 0R OHM 1/16W JUMPER 0805	17
	HDR1X3	Header 3		P1, P7	Header, 3-Pin	2
	HDR2X7	Header 7X2		P2	Header, 7-Pin, Dual row	1
	HDR1X4	Header 4		P3	Header, 4-Pin	1
	HDR 1X3	Header 3H		P4	Header, 3-Pin, Right Angle	1
	HDR1X2H	Header 2H		P5	Header, 2-Pin, Right Angle	1
	HDR 1X2	Header 2		P6	Header, 2-Pin	1
	0805	1.65K		R7	RES 1.65K OHM 1/10W 0.1% 0805	1
	0805	10k		R11, R12, R20, R21, R22, R23, R24, R25, R29, R30, R31, R32, R33, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46	RES 10K OHM 1/8W 1% 0805	26
	0805	0.2R/200mW		R16, R17	RES 0.2 OHM -0.2W 1% 0805, RES 0.2 OHM - 0.2W 1% 0805	2
	0805	47k		R18	RES 47k OHM 1/10W 1% 0805	1
	0805	33k		R19	RES 33K OHM 1/10W 1% 0805	1
	0805	1k		R26, R27	RES 1.0K OHM 1/8W 1% 0805	2
	0805	330R		R28	RES 330R OHM 1/4W 1% 0805	1
	1206 - ohmite	0.05R/0.5W		RSense	Current Sense Resistors - SMD 0.05ohm .5% 4 Terminal	1
	uSD_Card	WM12834CT-ND		SC1	MicroSD CARD Connector	1
	SOT-23 6L	TLV341AIDBVR		U1, U2, U4	TLV341AIDBVR	3
	MSOP-8	MAX9934TAUA+		U3	MAX9934TAUA+	1
	LSA20	BMX055		U5		1
	QFN24P300X300X	MPU-9250		U6	SMD Gyroscope/Accelerometer/Magnetometer Sensor, 9-AXIS	1
	105-25N					
	16TTSOP	DRV8833PWPR		U7, U8	DRV8833PWPR	2
	PZ0100A_N	MSP430F6659IPZ		U9	Imported	1
	DBV0005A_N	TPS3823-33QDBVRQ1		U10	Processor Supervisory Circuit, 1 Supply Monitored, -40 to 85 degC, 5-Pin SOT-23 (DBV), Green (RoHS & no Sb/Br)	1
	SOIC-8	REF5030A-Q1		U11	REF5030A-Q1	1
	SOT-23 5L	OPA333AQDBVR		U12	Op Amps AC 1.8V17uA2uV microPwr CMOS	1
	SOIC8	IS25LP128-JBLE		U13, U14, U15	IC FLASH 128MBIT 133MHZ 8SOIC	3
	PC104	PC104_INTERNAL		U16	PC104	1
	XTAL_AB8X	32MHz 10ppm		Y1	32MHz ±10ppm Crystal 10pF 60 Ohm - 40°C ~ 125°C	1
	ABS06 0805	32.768kHz 12.5pF		Y2	32.768kHz ±20ppm Crystal 12.5pF 70 kOhm -40°C ~ 125°C	1

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Approved	Notes