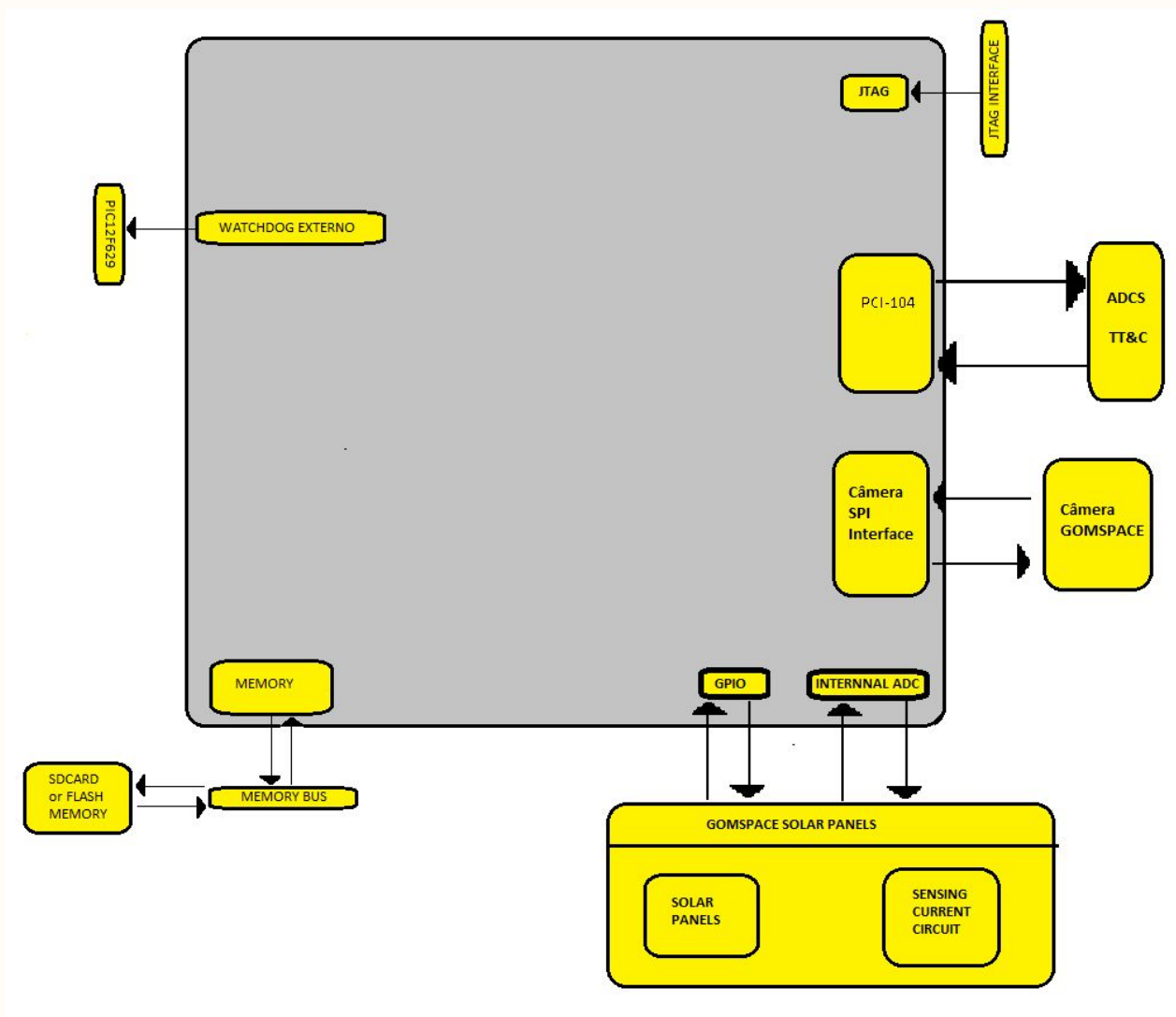


Design by SaganSat



Title			
OBC Hardware Archictecture			
Size	Number		Revision
A4	SaganSat		V1.0
Date:	5/17/2021	Sheet of	0
File:	D:\faculdade\...\Sheet1.SchDoc	Drawn By:	Felipe Juliano

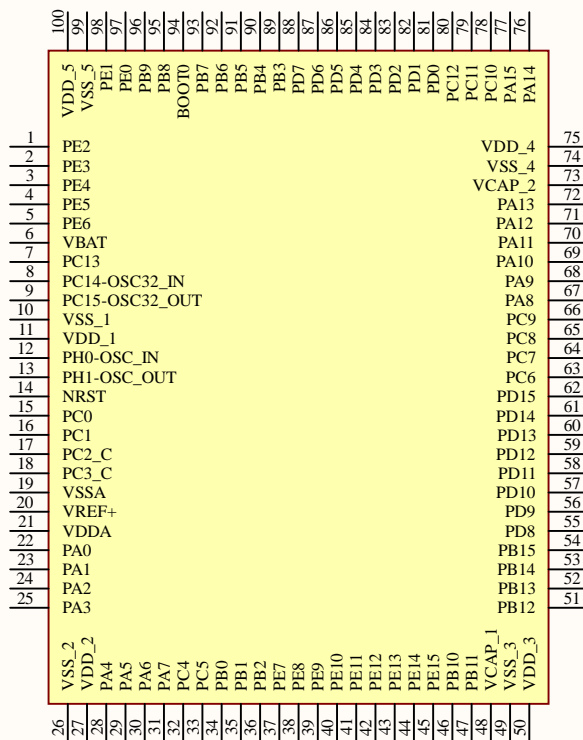
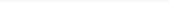
PIN DESCRIPTION

- JTMS_PIN-1PA13
- JTDO_PIN-PB3
- JTCK_PIN-PA14
- JTDI_PIN-PA15
- VCC
- GND

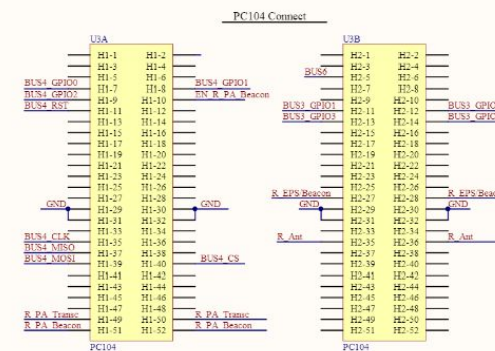
- PIN 14 NRST
- PIN 15 PC0

- PIN 47 I2C_SDA
- PIN 46 I2C_SCL
- VCC
- GND
- CANH
- CANL

- PIN 26 VSS
- PIN 27 VDD
- PIN 28 PA4
- PIN 29 PA5
- PIN 30 PA6
- PIN 31 PA7

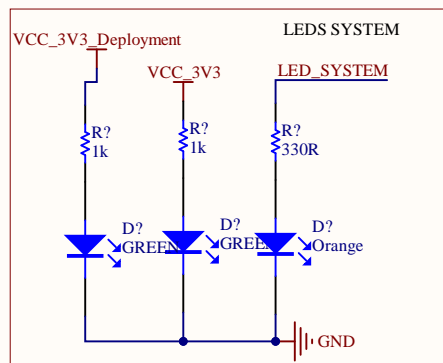
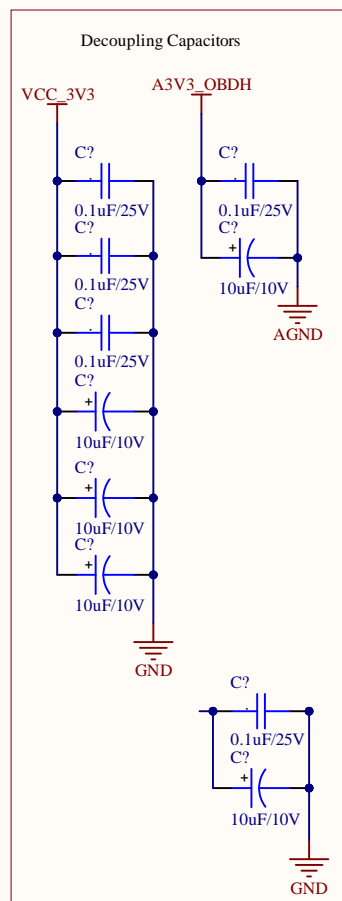
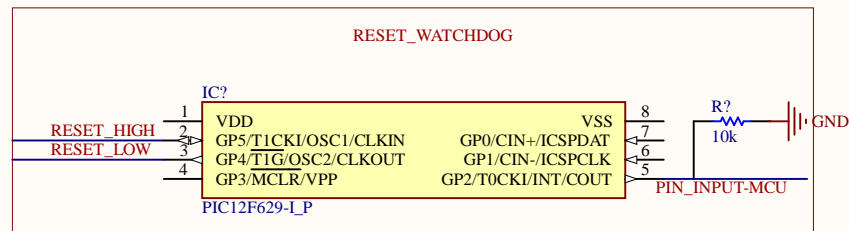


IC?
STM32H750VBT6



- GND_REF
- GND_REF
- GND_REF
- GND_REF
- BUS4_GPIO0 PD14
- BUS4_GPIO1 PD15
- BUS4_GPIO2 *
- BUS4_RST
- EN_R_PA_Beacon
- BUS4_CLK PBPD3
- BUS4_MISO PB14
- BUS4_MOSI PB15
- BUS4_CS PC11
- R_PA_TRANSAC VDD_4
- R_PA_BEACON
- R_PA_TRANSAC
- R_PA_BEACON
- BUS 6
- BUS3_GPIO0 PD10
- BUS3_GPIO1 PD11
- BUS3_GPIO2 PD12
- BUS3_GPIO3 PD13
- R_EPSBeacon
- R_EPSBeacon
- R_ANT
- R_ANT

Title				OBC MCU Main			
Size		Number			Revision		
A4		SaganSat			V1.0		
Date:		5/17/2021			Sheet of		
File:		D:\faculdade\...\Sheet2.SchDoc			Drawn By: Felipe Juliano		



Title			OBC MCU Main		
Size	Number			Revision	
A4	SaganSat			V1.0	
Date:	5/17/2021		Sheet of		
File:	D:\faculdade\...\Sheet3.SchDoc		Drawn By:		Felipe Juliano

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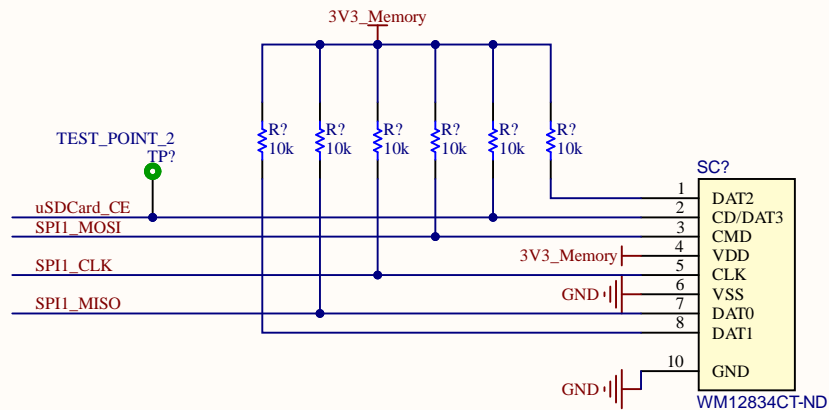
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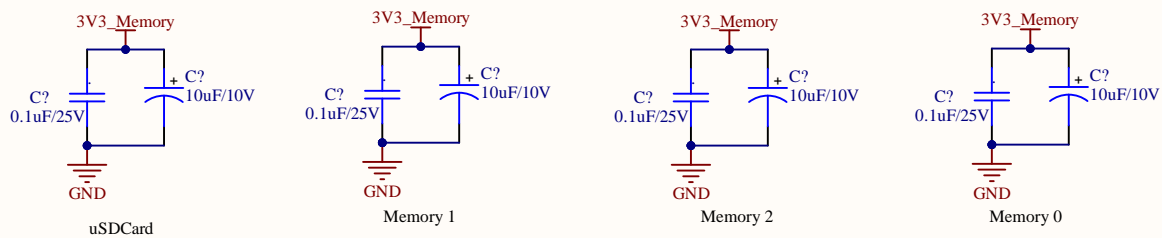
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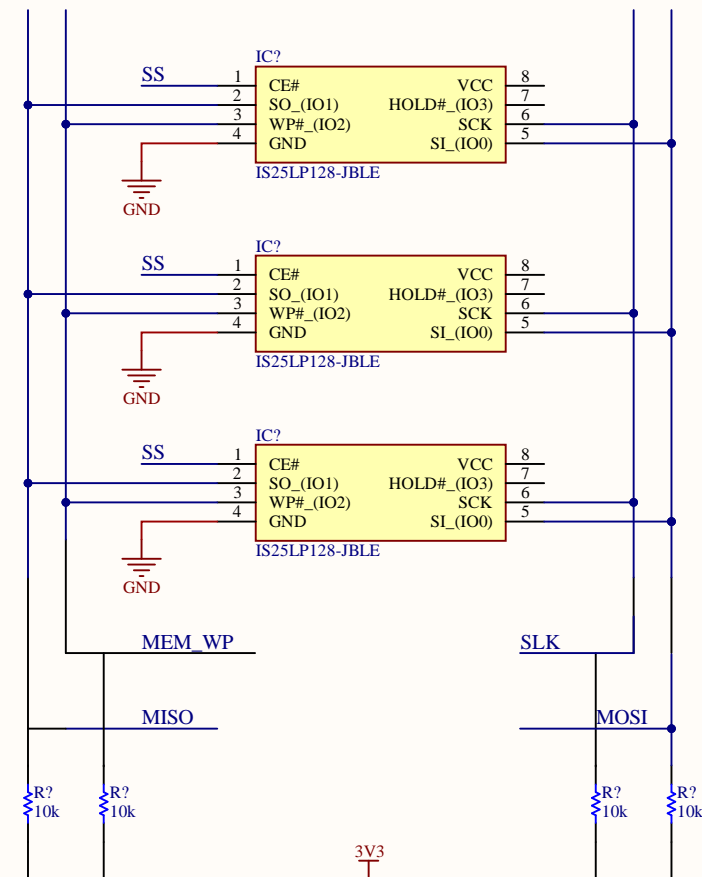
uSDCard



Decoupling Capacitors



FLASH MEMORIES



Title		
Non Volatile Memory		
Size	Number	Revision
A4		
Date:	5/17/2021	Sheet of
File:	D:\faculdade\...\Sheet5.SchDoc	Drawn By:

1

2

3

4

Comment	Description	Designator	Footprint	LibRef	Quantity
0.1uF/25V	CAP CER 0.1UF 25V 10% X7R 0805	C?	CC0805	Cap_Cer_X7R_0.1uF_25V_0805	15
10uF/10V	CAP Tantalum 10uF 6.3V 10% 0805, CAP Tantalum 10uF 10V 20% 0805	C?	CC0805_Tantalum	Cap_Tant_SMD_10uF_6V3_0805, Cap_Tant_SMD_10uF_10V_0805	10
18pF/50V	CAP CER 18pF 50V 5% X7R 0805	C?	CC0805	Cap_Cer_X7R_18pF_50V_0805	3
GREEN	SMD Green LED	D?	0805-LED	LED/G_0805	2
Orange	SMD Orange LED	D?	0805-LED	LED/R_0603	1
IS25LP128-JBLE	Integrated Circuit	IC?	SOIC127P790X216-8N	IS25LP128-JBLE	3
PIC12F629-I_P	Integrated Circuit	IC?	DIP781W56P254L950 H533Q8N	PIC12F629-I_P	1
STM32H750VBT6	Integrated Circuit	IC?	QFP50P1600X1600X160-100N	STM32H750VBT6	1
0R	RES 0R OHM 1/16W JUMPER 0805	J_V?, R?	0805	R0R_JUMPER_1/16W_0805	12
1k	RES 1.0K OHM 1/8W 1% 0805	R?	0805	R1.0k_1%_1/8W_0805	2
10k	RES 10K OHM 1/8W 1% 0805	R?	0805	R10k_1%_1/8W_0805	11
12K	RES 1.65K OHM 1/10W 0.1% 0805	R?	0805	R1.65K_1%_1/10W_0805	1
330R	RES 330R OHM 1/4W 1% 0805	R?	0805	R330R_1%_1/4W_0805	1
0.05R/0.5W	Current Sense Resistors - SMD 0.05ohm .5% 4 Terminal	RSense?	1206 - ohmite	R0.05R_0.5%_0.5W_1206	1
WM12834CT-ND	MicroSD CARD Connector	SC?	uSD_Card	MicroSD_Card_Connector	1
MAX9934TAUA+	MAX9934TAUA+	U?	MSOP-8	MAX9934TAUA+	1
TLV341AIDBVR	TLV341AIDBVR	U?	SOT-23 6L	TLV341AIDBVR	3