

PCU Ports

UIPORTA_L

PA8	14	USART2_CTS
PA1	15	USART2_RTS
PA2	16	USART2_TX
PA3	17	USART2_RX
PA4	20	SP13_NSS
PA5	21	SP11_SCK
PA6	22	SP11_MISO
PA7	23	SP11_MOSI

UIPORTA_H

PA8	41	I2C3_SCL
PA9	42	VBUS_DETECT
PA10	43	PBES_NBDV
PA11	44	OTG_FS_DM
PA12	45	OTG_FS_DP
PA13	46	ITMS-SWDIO
PA14	49	ITCK-SWCLK
PA15	50	ITDI

UIPORTB_L

PB0	26	PPM_INPUT
PB1	27	MAG_READY
PB2	28	PB2-B00T1
PB3	55	ITDO
PB4	56	ITBST
PB5	57	SP13_MOSI
PB6	58	USART1_TX
PB7	59	USART1_RX

UIPORTB_H

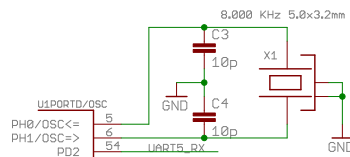
PB8	61	I2C1_SCL
PB9	62	I2C1_SDA
PB10	29	I2C2_SCL
PB11	30	I2C2_SDA
PB12	33	CAN2_RX
PB13	34	CAN2_TX
PB14	35	LFD_AHBER
PB15	36	LFD_BLUE

UIPORTC_L

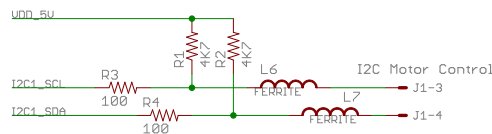
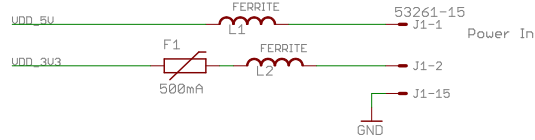
PC0	8	ADC123_IN10
PC1	9	ADC123_IN11
PC2	10	ADC123_IN12
PC3	11	ADC123_IN13
PC4	24	GPIO1
PC5	25	GPIO2
PC6	37	USART6_TX
PC7	38	USART6_RX

UIPORTC_H

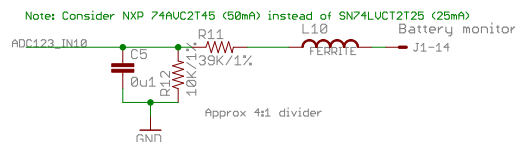
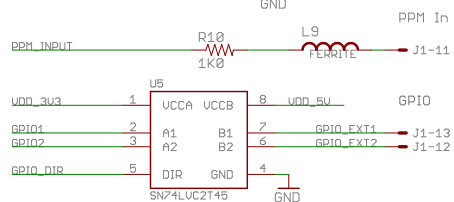
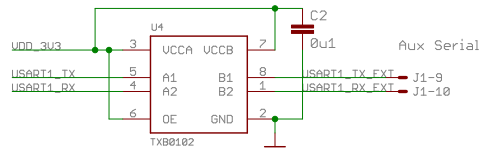
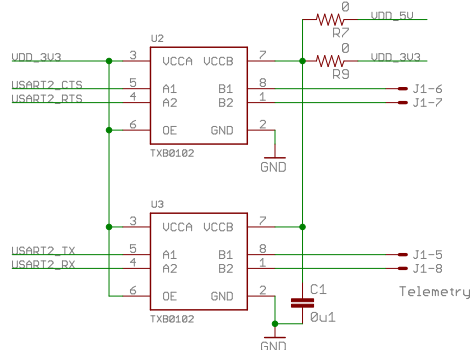
PC8	39	PCR
PC9	40	I2C3_SDA
PC10	51	SP13_SCK
PC11	52	SP13_MISO
PC12	53	UART5_TX
PC13	2	GPIO_DIR
PC14	3	GPIO_CS
PC15	4	ARCCF_CS



Universal Connector

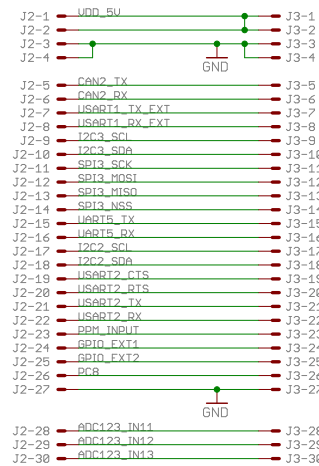


Telemetry serial voltage stuffing options: R16 = 5U R15 = 3.3V



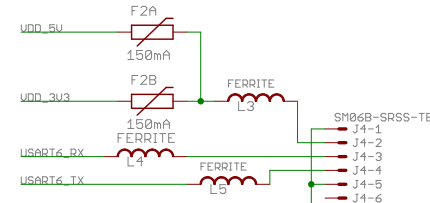
Note: Consider NXP 74AUC245 (50mA) instead of SN74LUC245 (25mA)

Expansion Connector

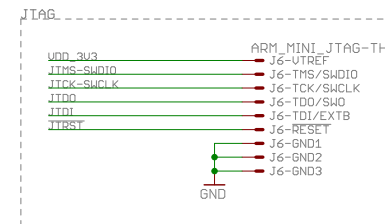
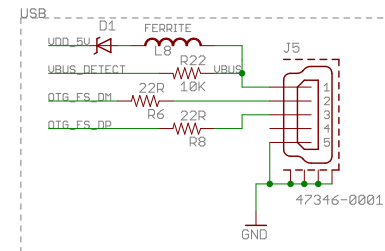


Note no pullups for I2C3, use weak pulldown on I2C3 pins to detect pullups on EXP board.

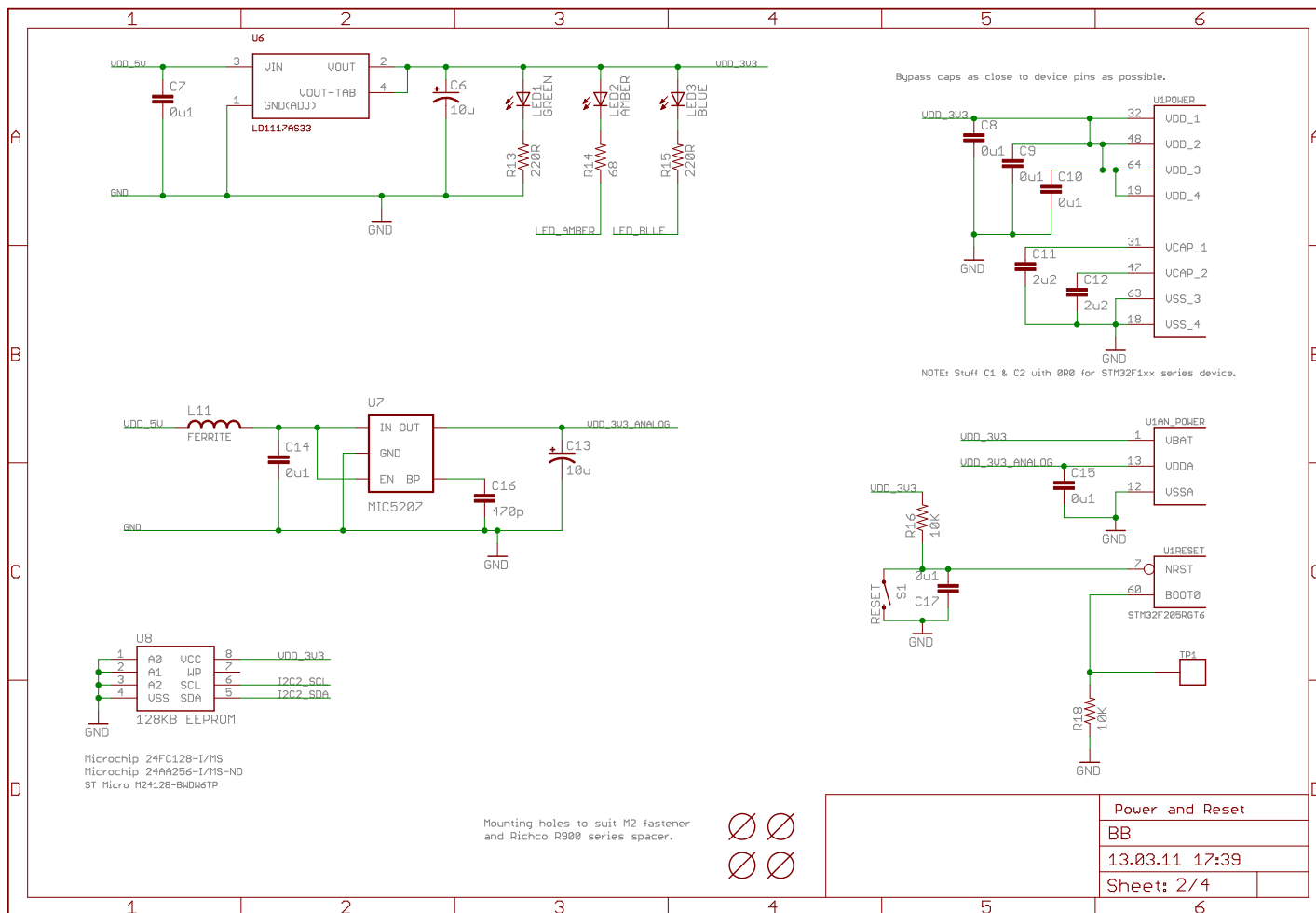
GPS

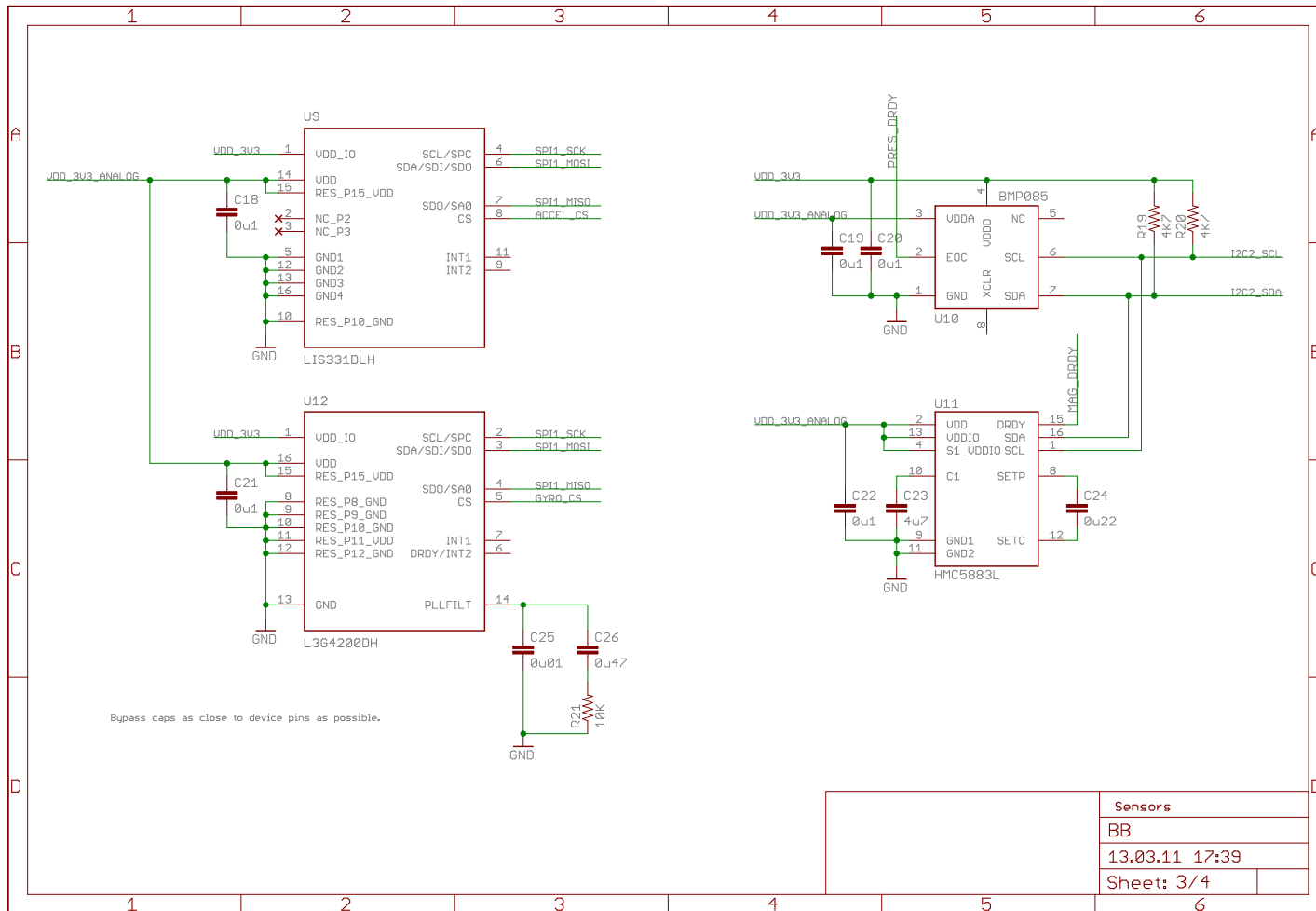


GPS voltage stuffing options: F2A = 5U F2B = 3.3V



Ports and Connectors	
BB	
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Sheet: 1/4	





PROTOTYPING ONLY SHEET - REMOVE FOR PRODUCTION REVISION

PAD1
X VDD_3V3
PAD2
X VDD_3V3
PAD3
X GND
PAD4
X GND

3.3V low-power supply - PROTOTYPING ONLY

VDD_3V3_ANALOG X3-1
I2C2_SCL X3-2
I2C2_SDA X3-3
MAG_DRDY X3-4
GND X3-5

External I2C sensor - PROTOTYPING ONLY