

CPU Ports

UIPORTA_L
 PA8 14 USART2_CTS
 PA1 15 USART2_RTS
 PA2 16 USART2_TX
 PA3 17 USART2_RX
 PA4 20 SPI3_NSS
 PA5 21 SPI1_SCK
 PA6 22 SPI1_MISO
 PA7 23 SPI1_MOSI

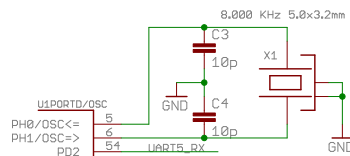
UIPORTA_H
 PA8 41 I2C3_SCL
 PA9 42 USART1_TX
 PA10 43 USART1_RX
 PA11 44 CAN1_RX
 PA12 45 CAN1_TX
 PA13 46 ITMS-SWDIO
 PA14 49 JTCK-SWCLK
 PA15 50 JTDI

UIPORTB_L
 PB0 26 PPM_INPUT
 PB1 27 PB1
 PB2 28 PB2-BOOT1
 PB3 55 JTD0
 PB4 56 ITBST
 PB5 57 SPI3_MOSI
 PB6 58 LED_AMBER
 PB7 59 LED_BLUE

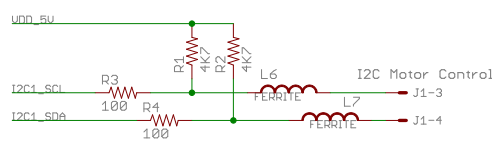
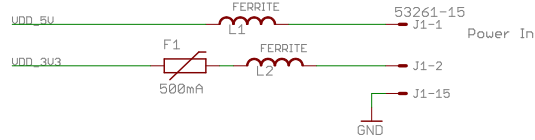
UIPORTB_H
 PB8 61 I2C1_SCL
 PB9 62 I2C1_SDA
 PB10 29 I2C2_SCL
 PB11 30 I2C2_SDA
 PB12 33 PB12
 PB13 34 VBUS_DETECT
 PB14 35 OTG_HS_DM
 PB15 36 OTG_HS_DP

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

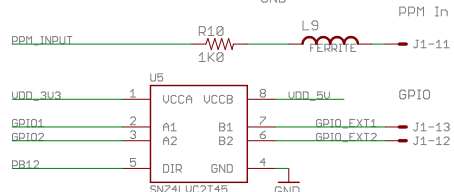
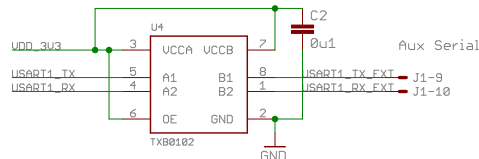
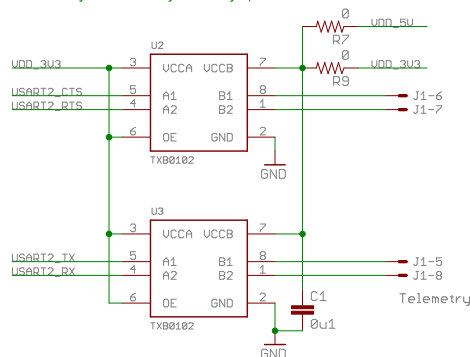
UIPORTC_H
 PC8 39 PC8
 PC9 40 I2C3_SDA
 PC10 51 SPI3_SCK
 PC11 52 SPI3_MISO
 PC12 53 UART5_TX
 PC13 2 PC13
 PC14 3 GPIO_CS
 PC15 4 AFCCF_CS



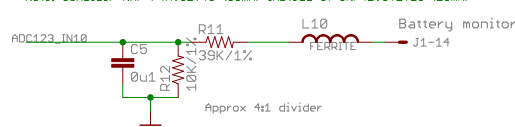
Universal Connector



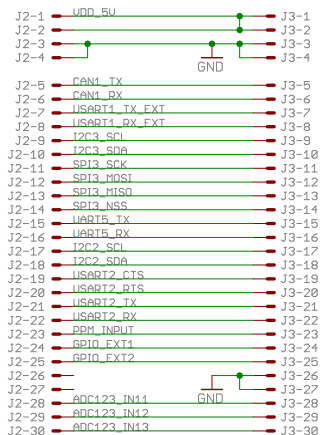
Telemetry serial voltage stuffing options: R16 = 5V R15 = 3.3V



Note: Consider NXP 74AUC2T45 (50mA) instead of SN74LUC2T25 (25mA)

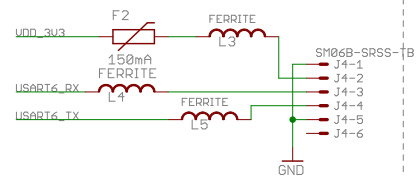


Expansion Connector

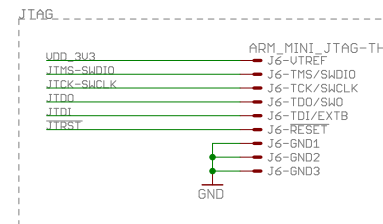
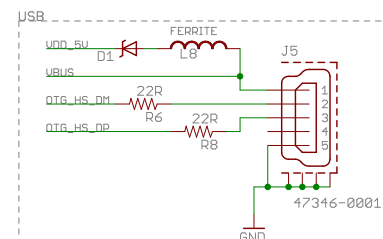


Note no pullups for I2C3, use weak pulldown on I2C3 pins to detect pullups on EXP board.

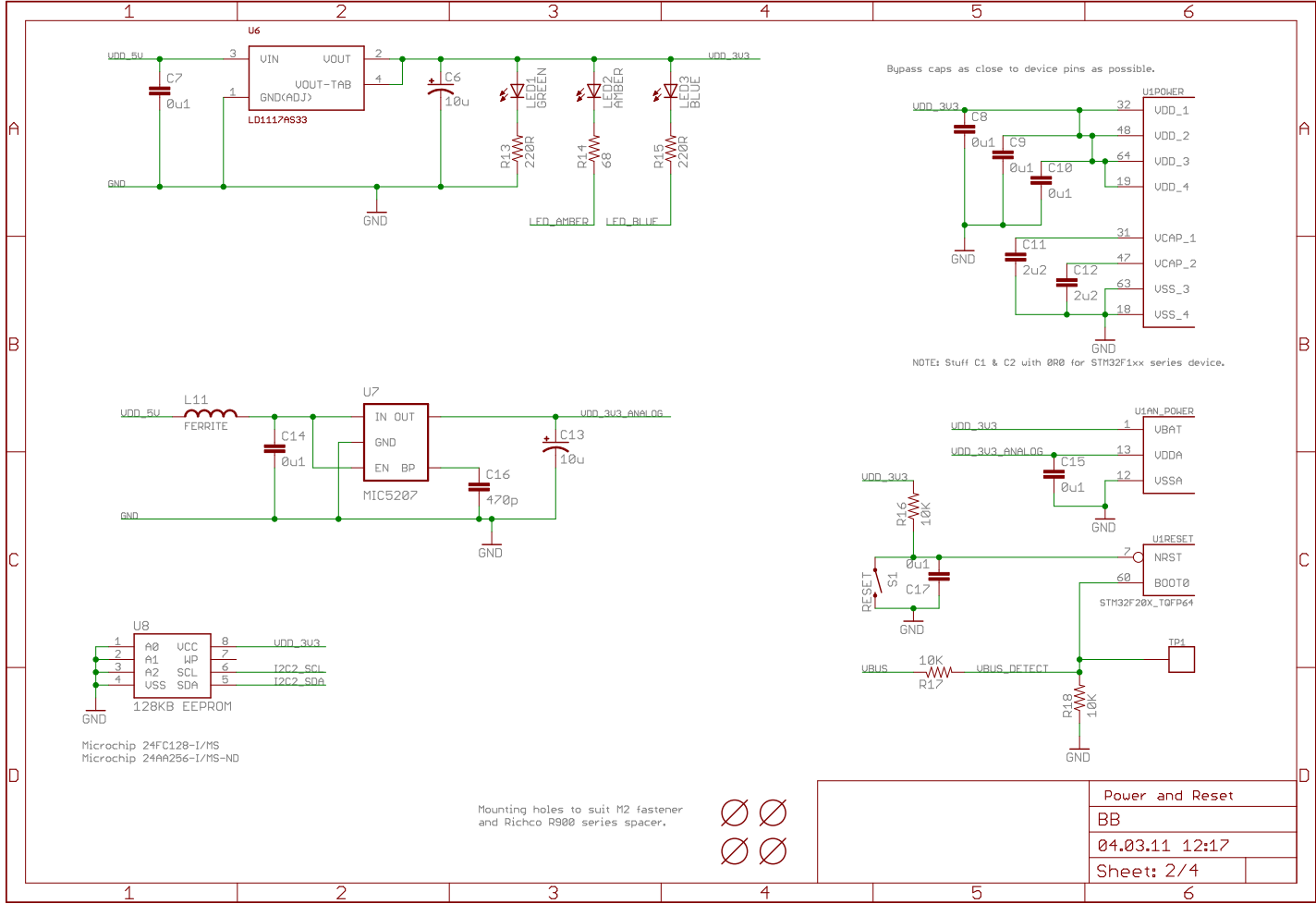
GPS

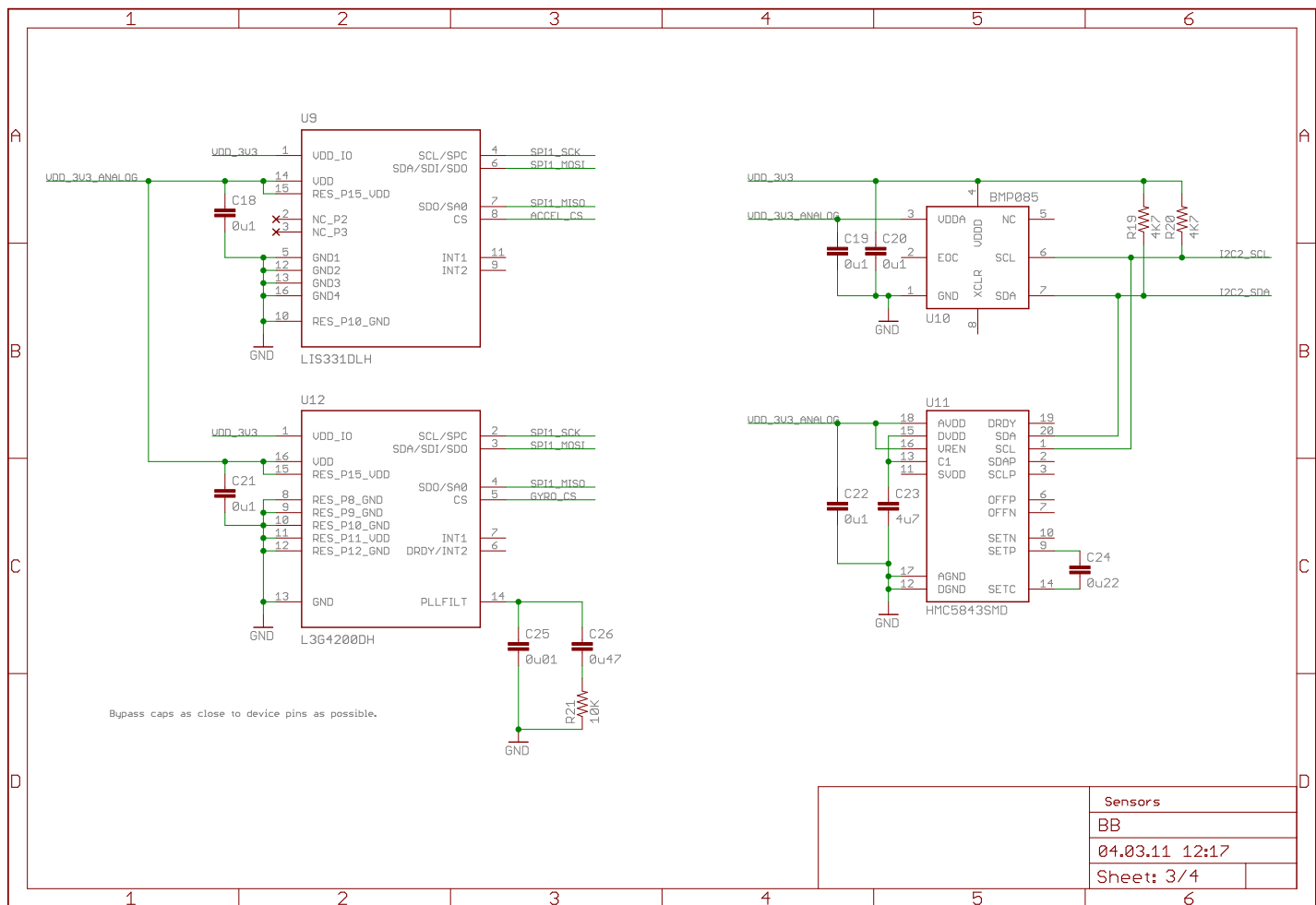


GPS voltage stuffing options: R17 = 5V R18 = 3.3V



Ports and Connectors	
BB	
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Sheet: 1/4	





PROTOTYPING ONLY SHEET - REMOVE FOR PRODUCTION REVISION

PAD1
X UDD_3V3
PAD2
X UDD_3V3
PAD3
X GND
PAD4
X GND

3.3V low-power supply - PROTOTYPING ONLY

UDD_3V3_ANALOG X2-1
I2C2_SCL X2-2
I2C2_SDA X2-3
GND X2-4

External I2C sensor - PROTOTYPING ONLY