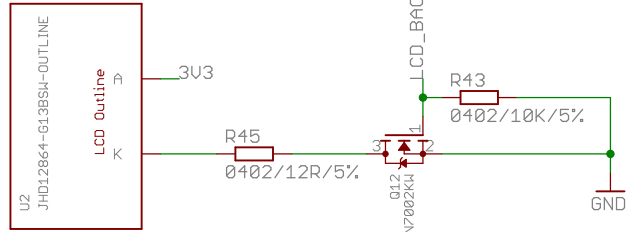
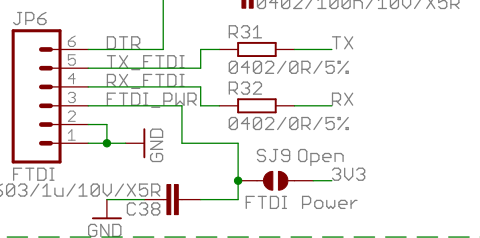


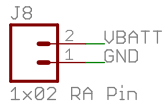
### LCD Backlight



### FTDI

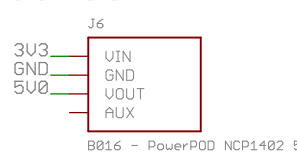


### LiPo Connector



### 5V0 Power

Optional Step up regulator  
3V3 > 5V0

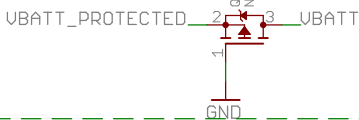


### 3V3 Power

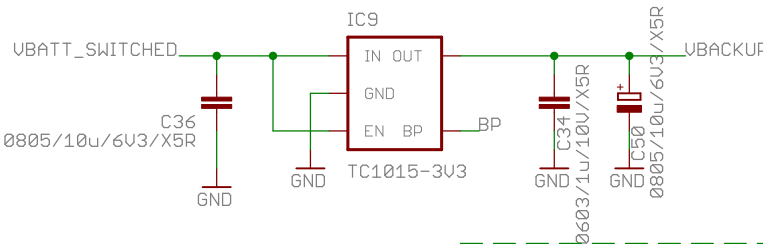
3V3 generated from the PMIC OUTPUT  
Shutdown during Sleep



### Polarity Protection



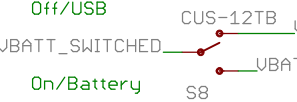
### Charge



### Backup power

100mA

### Power switch



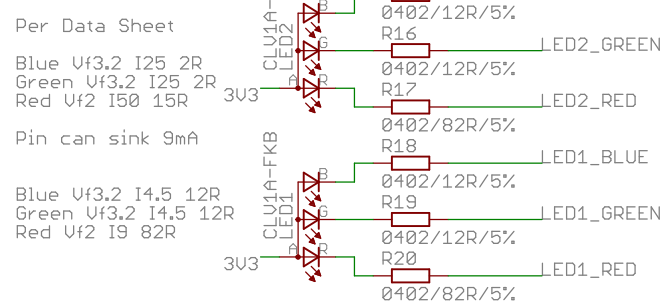
### SRF and programming header



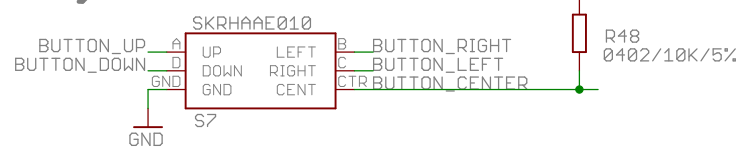
### Light Switch Batt Voltage Mon



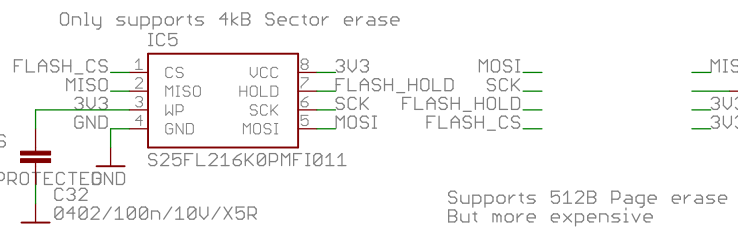
### RGB LED's



### Joystick

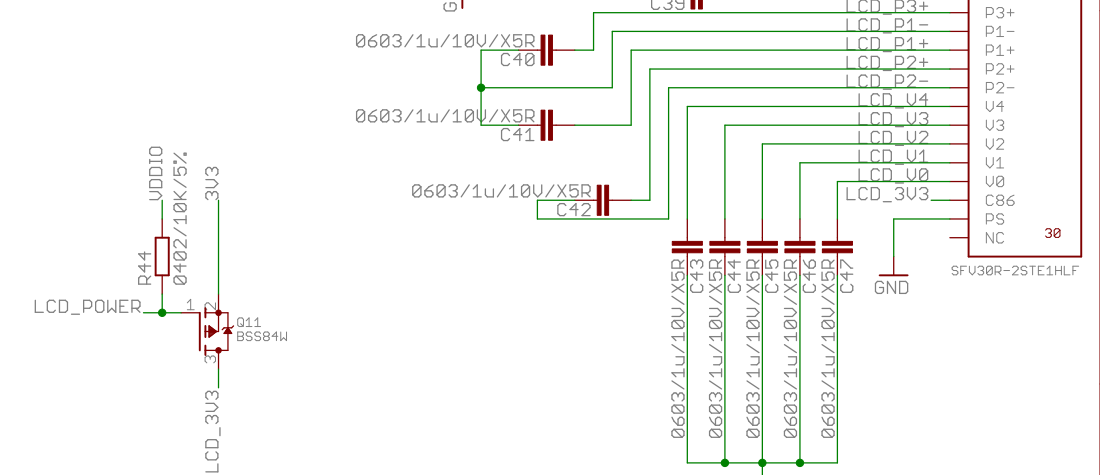


### SPI FLASH

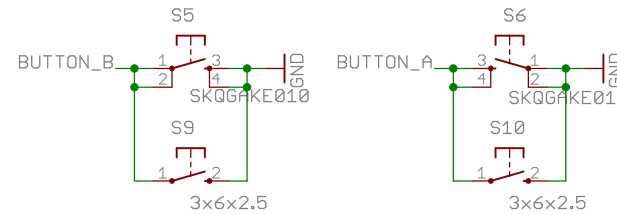


### LCD Connector

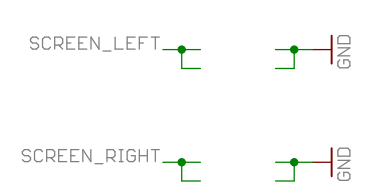
Connector and support parts  
Taken from the Repaper Dev Board



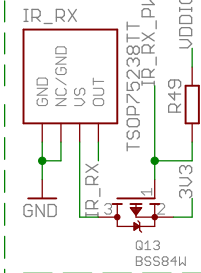
### A B Buttons



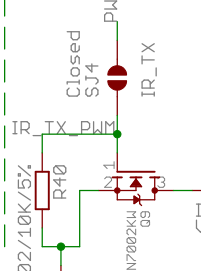
### Screen Buttons



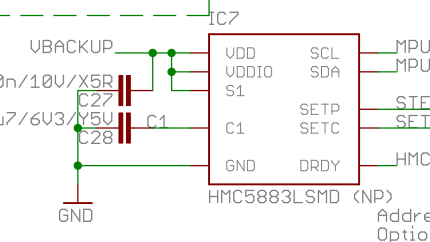
### IR RX



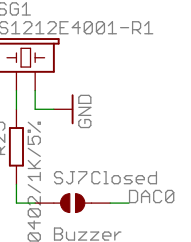
### IR TX LED



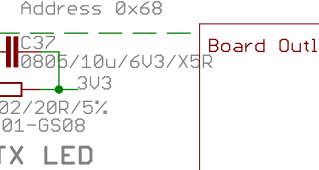
### HMC5883L



### Buzzer

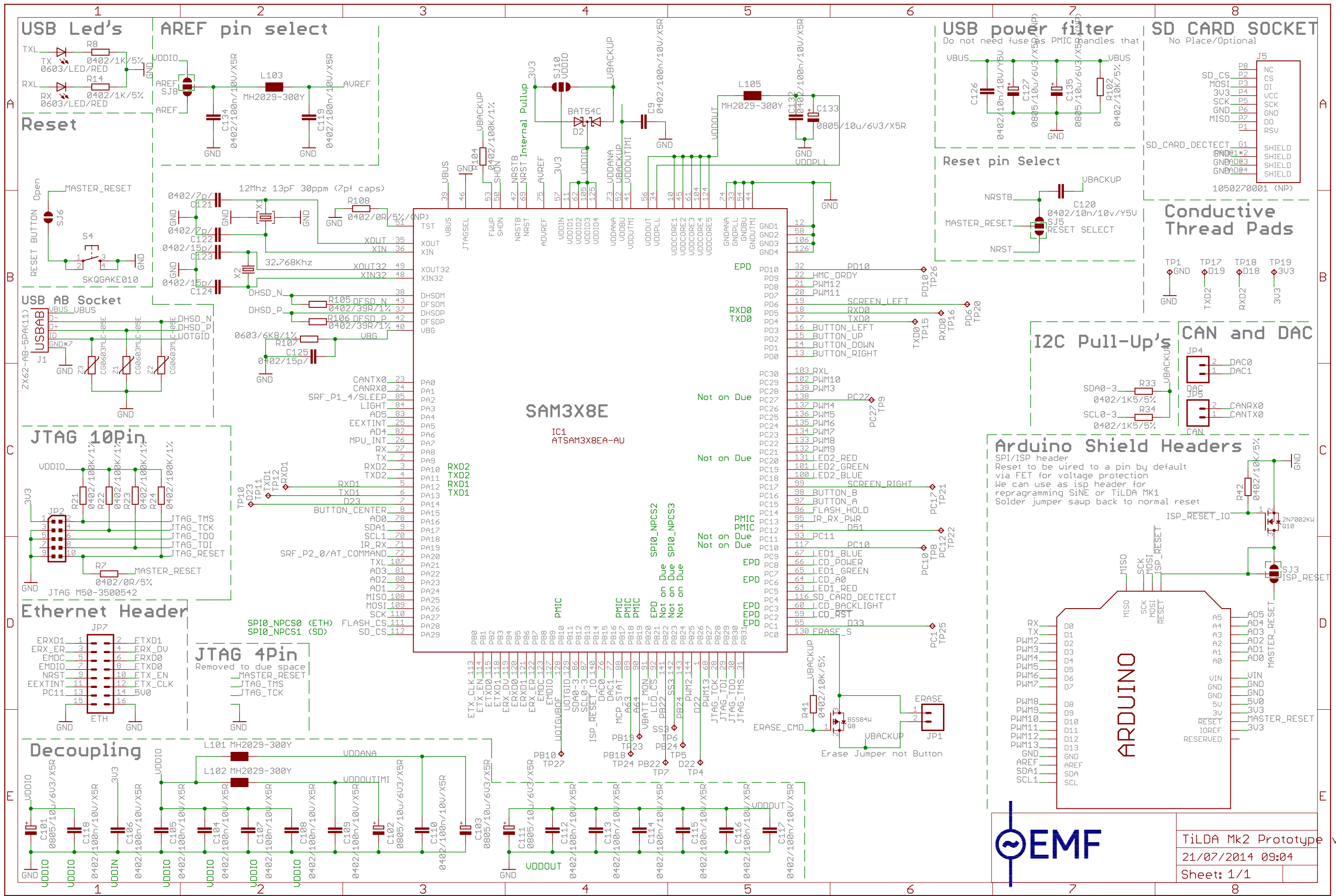


### MPU-6050 IMU



### Board Outline





### SAM3X8E

IC1  
ATSAM3X8EA-UR

CANTX0	23	PA0
CANRX0	24	PA1
SRF_P1_4/SLEEP	85	PA2
LIGHT	84	PA3
AD5	83	PA4
EEXTINT	25	PA5
AD4	82	PA6
MPU_INT	26	PA7
RX	27	PA8
TX	2	PA9
RXD2	3	PA10
TXD2	4	PA11
RXD1	5	PA12
TXD1	6	PA13
D23	7	PA14
BUTTON_CENTER	8	PA15
AD0	78	PA16
SDA1	9	PA17
SCL1	20	PA18
IR_RX	71	PA19
SRF_P2_0/AT_COMMAND	72	PA20
TXL	107	PA21
AD3	81	PA22
AD2	80	PA23
AD1	79	PA24
MISO	108	PA25
MOSI	109	PA26
SCK	110	PA27
FLASH_CS	111	PA28
SD_CS	112	PA29

PB0	ETX_CLK_113
PB1	ETX_EN_114
PB2	ETXD0_115
PB3	ETXD1_118
PB4	ERX_DU_119
PB5	ERXD0_120
PB6	ERXD1_121
PB7	ERX_ER_122
PB8	EMDIO_123
PB9	UOTGID_128
PB10	SDA0-3_86
PB11	SCL0-3_87
PB12	SDA0-3_86
PB13	SCL0-3_87
PB14	DAC0_76
PB15	DAC1_77
PB16	MCP_STM1_88
PB17	A63_90
PB18	A64_91
PB19	VBATT_MON_91
PB20	SS_92
PB21	LCD_CS_92
PB22	SS3_142
PB23	SS3_142
PB24	PWM2_144
PB25	D22_1
PB26	PWM1_58
PB27	JTAG_TCK_28
PB28	JTAG_TDI_29
PB29	JTAG_TDO_30
PB30	JTAG_TMS_31
PB31	JTAG_TMS_31



TiLDA Mk2 Prototype v0.1  
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