

ATMEL XMEGA A3U

DECOUPLING_2

DECOUPLING_1

MICROCONTROLLER POWER PINS

SPI DATAFLASH 2MBYTES

SPI SRAM 32KBYTES

U1A

PA0/SYNC/ADC0/AC0/AREF
PA1/SYNC/ADC1/ADC9/AC1
PA2/SYNC/ASYN/ADC2/ADC10/AC2
PA3/SYNC/ADC3/ADC11/AC3
PA4/SYNC/ADC4/ADC12/AC4
PA5/SYNC/ADC5/ADC13/AC5
PA6/SYNC/ADC6/ADC14/AC6
PA7/SYNC/ADC7/ADC15/AC7/AC0OUT

PB0/SYNC/ADC8/ADC0/AC0/AREF
PB1/SYNC/ADC9/ADC1/AC1
PB2/SYNC/ASYN/ADC10/ADC2/AC2
PB3/SYNC/ADC11/ADC3/AC3/DAC1
PB4/SYNC/ADC12/ADC4/AC4
PB5/SYNC/ADC13/ADC5/AC5/TDI
PB6/SYNC/ADC14/ADC6/AC6/AC1OUT/TCK
PB7/SYNC/ADC15/ADC7/AC7/AC0OUT/TDO

PC0/SYNC/OC0A/OC0ALS/SDA
PC1/SYNC/OC0B/OC0AHS/XCK0/SCL
PC2/SYNC/ASYN/OC0C/OC0BLS/RXD0
PC3/SYNC/OC0D/OC0BHS/TXD0
PC4/SYNC/OC0CL/OC1A/SS
PC5/SYNC/OC0CHS/OC1B/XCK1/MOSI
PC6/SYNC/OC0DLS/RXD1/MISO/RTCOU
PC7/SYNC/OC0DHS/TXD1/SCK/gkPER

PD0/SYNC/OC0A/SDA
PD1/SYNC/OC0B/XCK0/SCL
PD2/SYNC/ASYN/OC0C/RXD0
PD3/SYNC/OC0D/TXD0
PD4/SYNC/OC1A/SS
PD5/SYNC/OC1B/XCK1/MOSI
PD6/SYNC/D-/RXD1/MISO
PD7/SYNC/D+/TXD1/SCK/gkPER

PE0/SYNC/OC0A/OC0ALS/SDA
PE1/SYNC/OC0B/OC0AHS/XCK0/SCL
PE2/SYNC/ASYN/OC0C/OC0BLS/RXD0
PE3/SYNC/OC0D/OC0BHS/TXD0
PE4/SYNC/OC0CL/OC1A/SS
PE5/SYNC/OC0CHS/OC1B/XCK1/MOSI
PE6/SYNC/OC0DLS/RXD1/MISO
PE7/SYNC/OC0DHS/TXD1/SCK/gkPER

PF0/SYNC/OC0A
PF1/SYNC/OC0B/XCK0
PF2/SYNC/ASYN/OC0C/RXD0
PF3/SYNC/OC0D/TXD0
PF4/SYN
PF5/SYN
PF6/SYN
PF7/SYN

PDI/PDI_DATA
RESET/PDI_CLOCK
PRO/SYN/XTAL2
PRI/SYN/XTAL1

ATxmega256A3U-AU

TP22
1
GND

TP20
1
RX

TP21
1
TX

P1
Programming PDI 3x2, 0.1

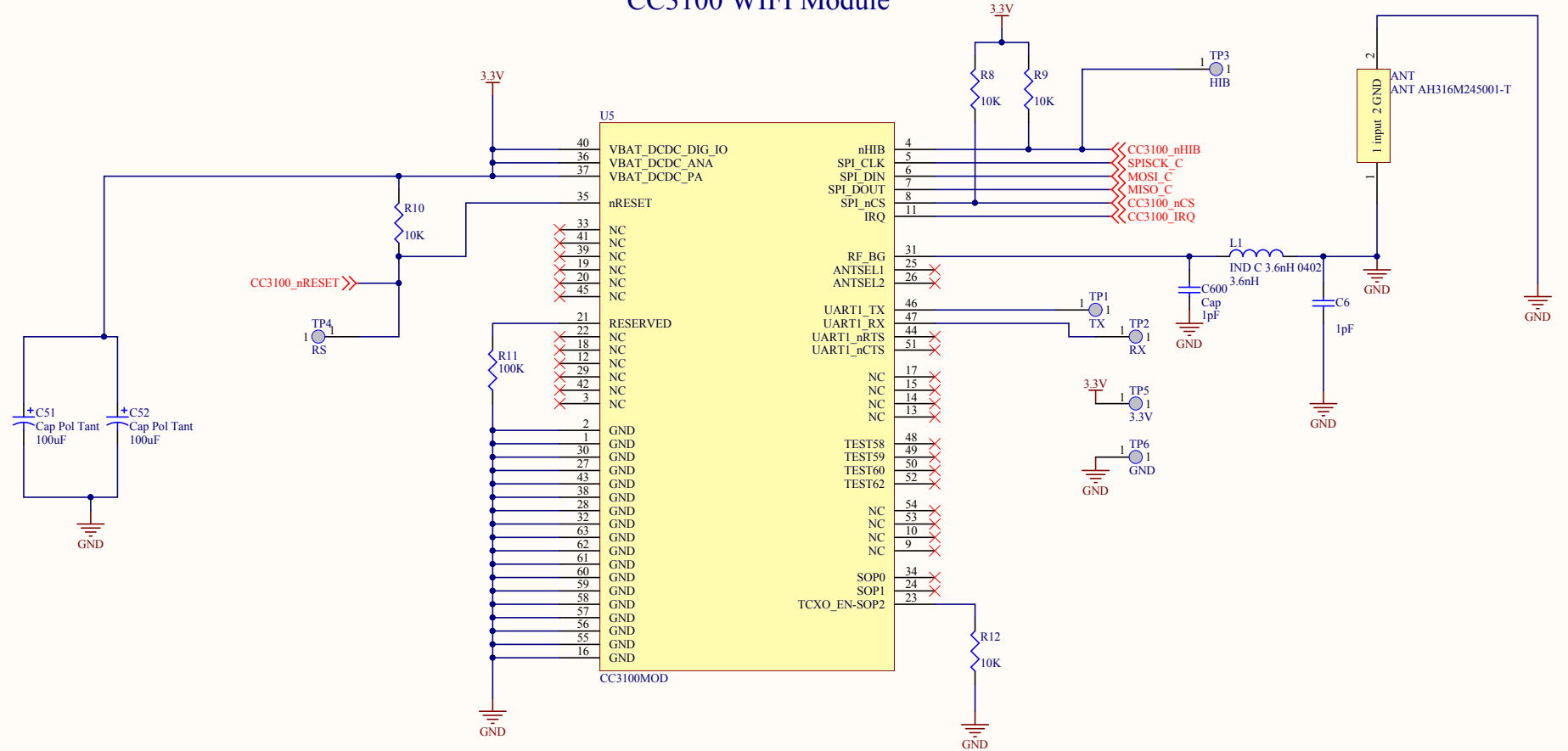
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Title **PNW DEVICE**
Size: Legal Number: Revision:3
Date: 21/10/2015 Time: 11:10:26 Sheet 1 of 4
File: C:\Users\gerald\Documents\p9pcb\p9pcb\Sheet1p9.SchDoc


KELSEC SYSTEMS INC
FOR P9

Altium

CC3100 WIFI Module

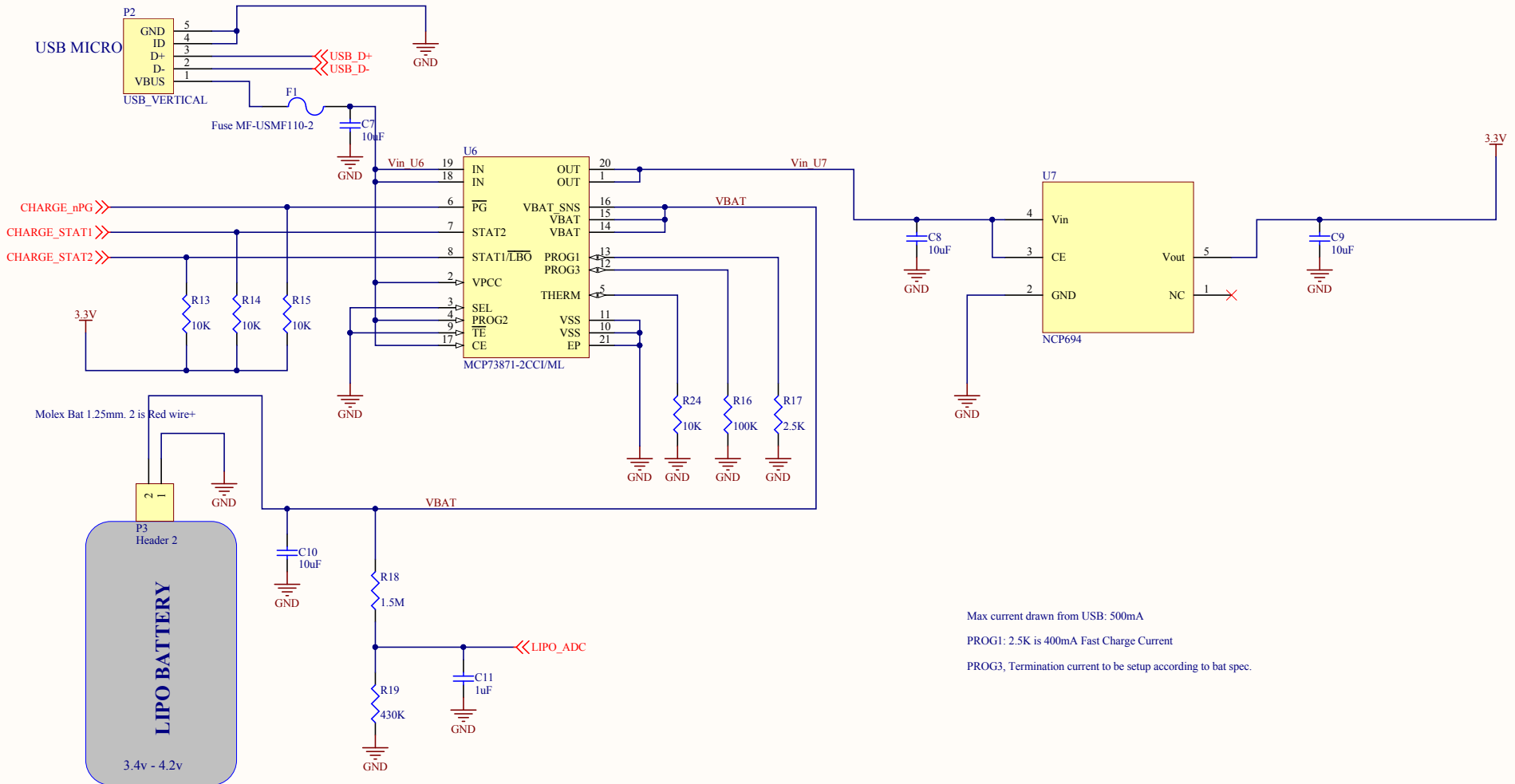


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BATTERY, CHARGING & POWER CIRC.

USB VOLTAGE IN ONLY (MAX 5.0V)



Max current drawn from USB: 500mA

PROG1: 2.5K is 400mA Fast Charge Current

PROG3, Termination current to be setup according to bat spec.

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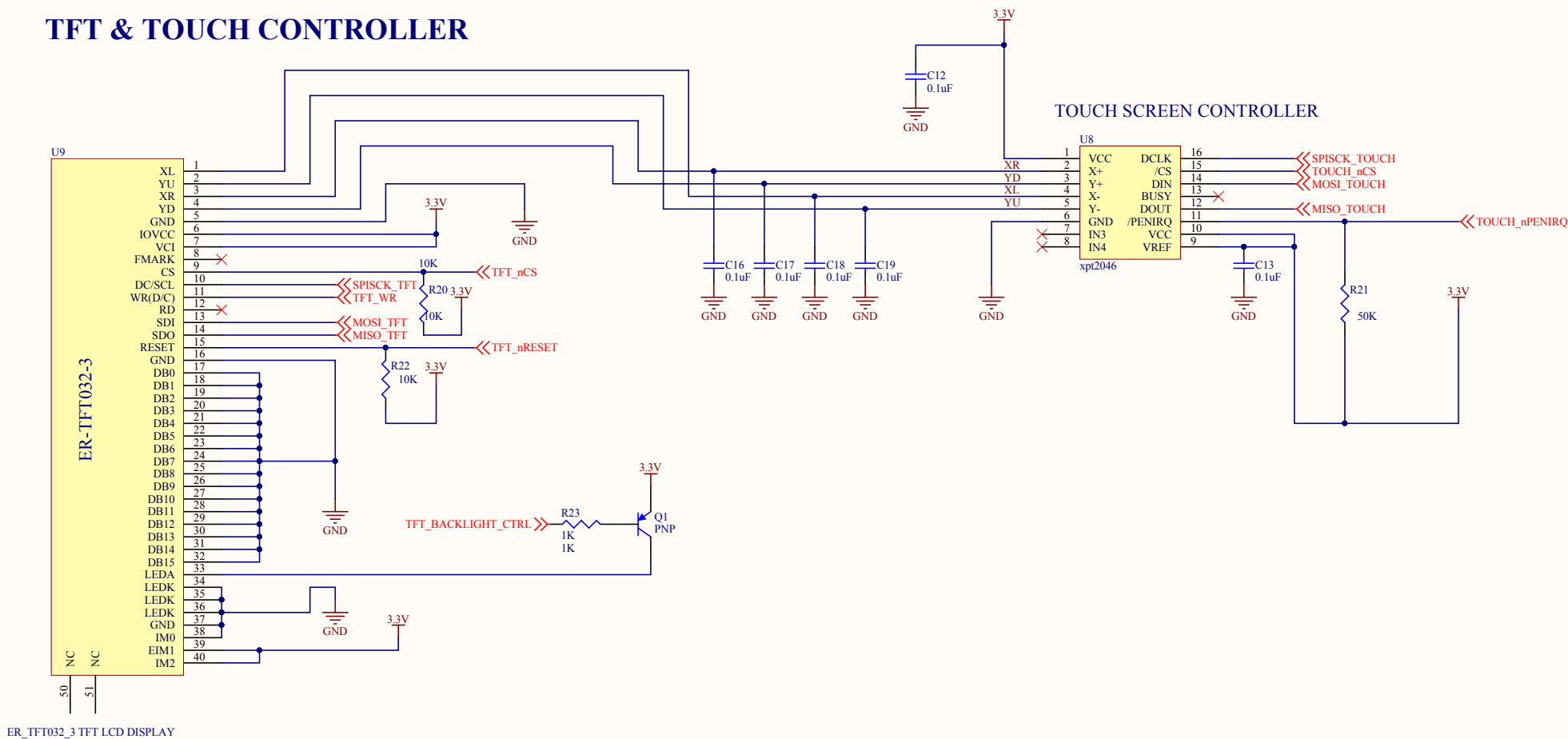
BH1 BATHOLDER
BATHOLDER
BH2 BATHOLDER
BATHOLDER
BH3 BATHOLDER
BATHOLDER
BH4 BATHOLDER
BATHOLDER


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TFT & TOUCH CONTROLLER

TOUCH SCREEN CONTROLLER



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