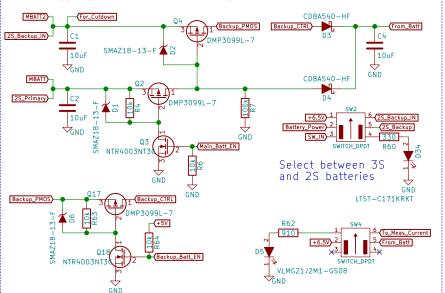
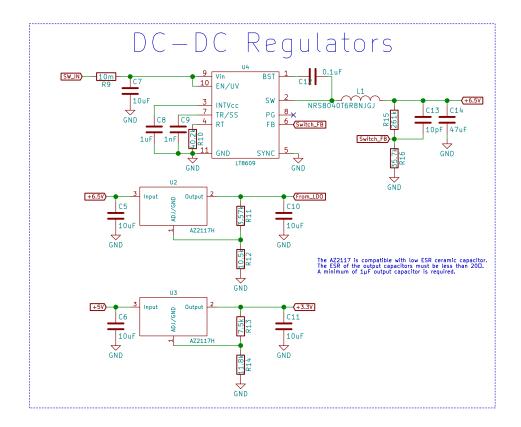


## Battery Input and Switchover

The system is initially powered off of the backup battery but then switches to the main battery during the initialization sequence by toggling the "Batt\_EN" GPIO high





Current Measurement

R5

Battery\_Power
R8

VDD

SCI

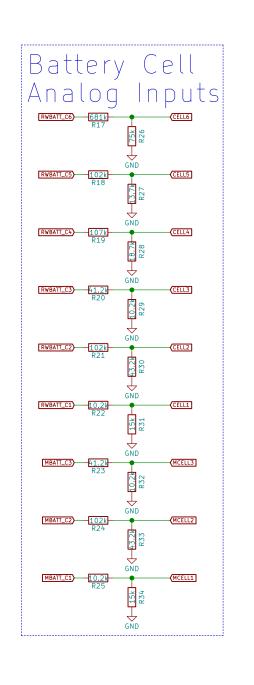
10

From\_LDD

10

F

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## Teensy 3.6

DAQCS\_MOSI) 2 0\_RX1\_MOSI1\_Touch 3 1\_TX1\_MISO1\_Touch

ALERT 4 2\_PWM 

MOTOR\_ENABLE) 9 7\_RX3\_miso0\_scl0 MOTOR\_DIRECTION 10 8\_TX3\_miso0\_sda0

IMU\_MISO 14 12\_MISO0 × 15 3.3V

TEENSY\_LED\_GREEN 16 24 TEENSY\_LED\_BLUE) 17 25 26\_tx1

IMU\_1\_CS\_M 19 27\_rx1 Main\_Batt\_EN) 20 28

RTC\_PWR) 25 VBat

CELL6 30 33\_A14\_CAN1TX\_scl0 34\_A15\_CAN1TX\_sda0

CELL3 32 35\_A16\_PWM
CELL3 33 36\_A17\_PWM CELL2) 34 37\_A18\_PWM\_SCL1

CELL1 35 38\_A19\_PWM\_SDA1 MCELL1 36 39\_A20

MCELL2 37 A21\_DAC0 MCELL3 38 A22\_DAC1 GND 39 GND

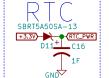
×40 13\_SCK0\_LED 20\_A6\_PWM\_CS0\_sck1 IMU\_SCLK 41 14\_A0\_PWM\_sck0 19\_A5\_SCL0\_Touch

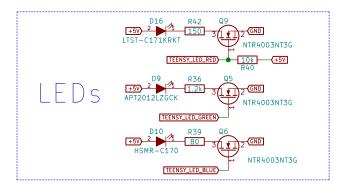
| 19\_35\_500 | 42 | 14\_30\_FWINSEN | 19\_35\_500\_FUND | 19\_45\_500\_FUND | 19\_5\_500\_FUND | 19\_5\_500\_FUND | 19\_5\_500\_FUND | 19\_5\_500\_FUND | 19\_5\_500\_FUND | 19\_5\_500\_F

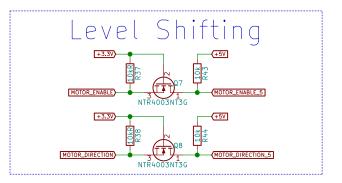
21\_A7\_PWM\_CS0\_sck1

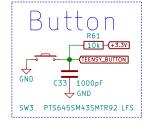
Teensy3.6

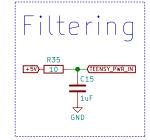












53 (TEENSY\_PWR\_IN)

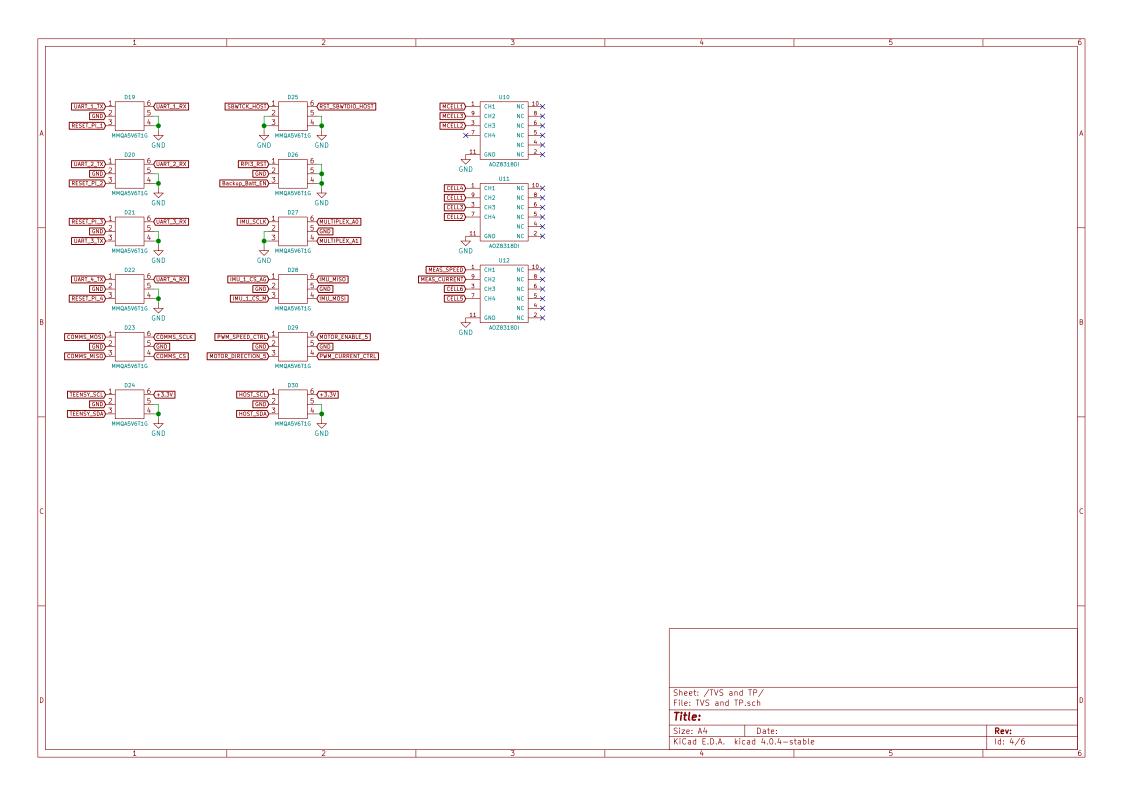
AGND 52 GND

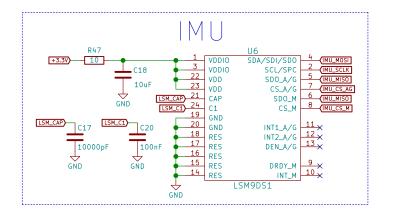
3.3V\_max250mA 51 ×

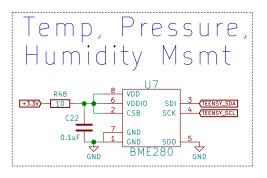
23\_A9\_PWM\_Touch 50 MSP\_GPIO\_3

22\_A8\_PWM\_Touch 49 (MSP\_GPI0\_2)

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