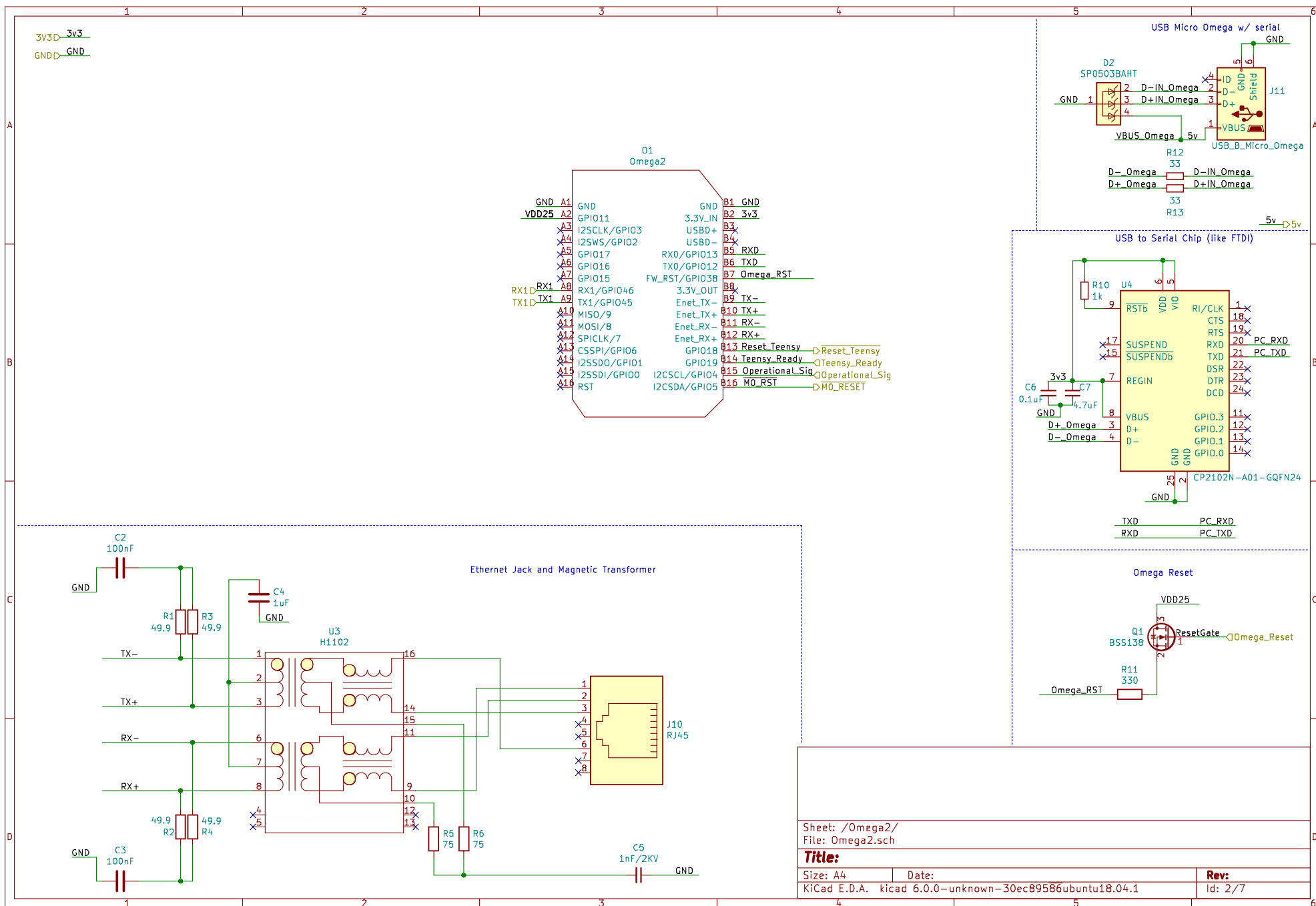
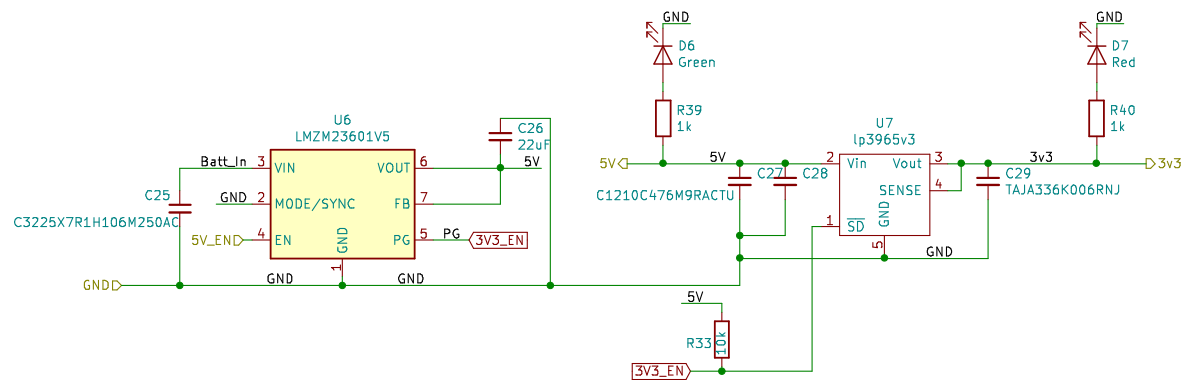


Sheet: /		
File: main_board_onion.sch		
Title:		
Size: A4	Date:	Rev:
KICad E.D.A. kicad 6.0.0-unknown-30ec89586ubuntu18.04.1		Id: 1/7



Pack+D Batt\_In



Sheet: /batteryStepDown/  
File: batteryStepDown.sch

**Title:**

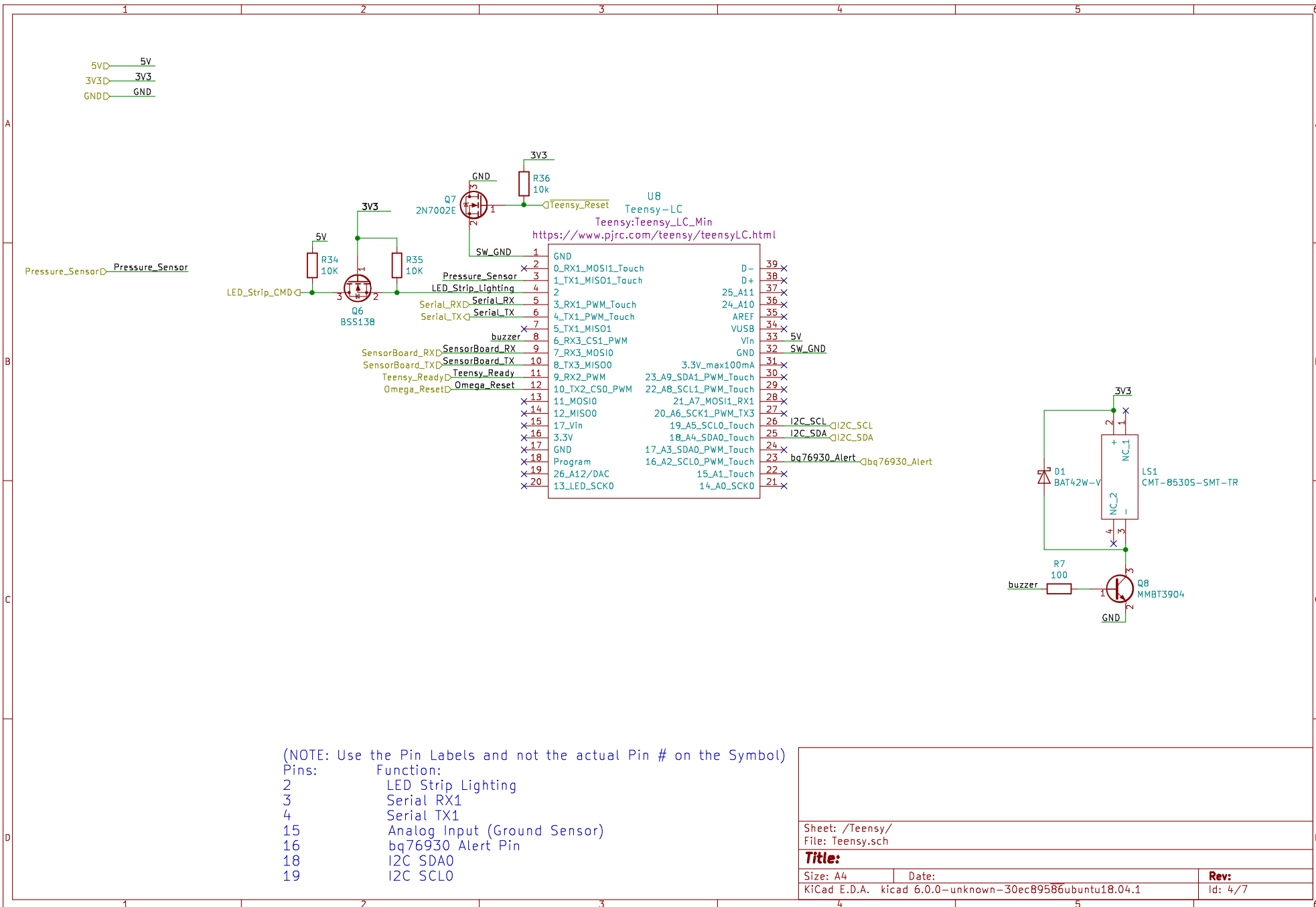
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Date:

**Rev:**

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Id: 3/7



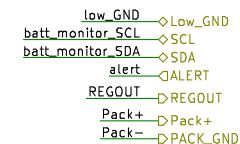
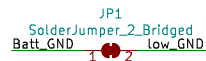
(NOTE: Use the Pin Labels and not the actual Pin # on the Symbol)

Pins:	Function:
2	LED Strip Lighting
3	Serial RX1
4	Serial TX1
15	Analog Input (Ground Sensor)
16	bq76930 Alert Pin
18	I2C SDA0
19	I2C SCL0

Sheet: /Teensy/ File: Teensy.sch		
Title:		
Size: A4	Date:	Rev:
KICad E.D.A. kicad 6.0.0-unknown-30ec89586ubuntu18.04.1		Id: 4/7







```
cell minimum volatage 3.0V
cell count 6
charge voltage 25.2
max charge current 1.75A
peak discharge current 20A
OV Protection threshold 4.3V
OV protection Delay 2s
UV Protection Threshold 2.5V
UV protection Delay 2s
OCD Protection Threshold 20A -> PROTECT2[0:3] = 0xD (89mV, 19.3A, RSNS = 1)
OCD Protection Delay 320ms -> PROTECT2[4:6] = 0x5 (320ms)
SCD Protection Threshold 35A -> PROTECT1[0:2] = 0x5 (155mV, 33.6A, RSNS = 1)
SCD Protection Delay 100us -> PROTECT1[3:4] = 0x1 (100us)
```

<b>Title:</b>		
Size: A4	Date:	<b>Rev:</b>
KiCad E.D.A.    kicad 6.0.0-unknown-30ec89586ubuntu18.04.1		Id: 7/7