

123456

A

Sheet: MCU

File: MCU.sch

Sheet: HV interface

File: HV\_interface.sch

Sheet: peripherals

File: peripherals.sch

Sheet: power

File: power.sch

mechanical / graphical

H1

MountingHole

H2

MountingHole

H3

MountingHole

H4

MountingHole

H5

MountingHole

H6

MountingHole

H7

MountingHole

H8

MountingHole

G1

W logo

G2

MISL logo

G3

PurpleDrop logo

UW MISL

Sheet: /

File: PurpleDrop.sch

Title: PurpleDrop Main Board

Size: A4

Date: 2020-11-03

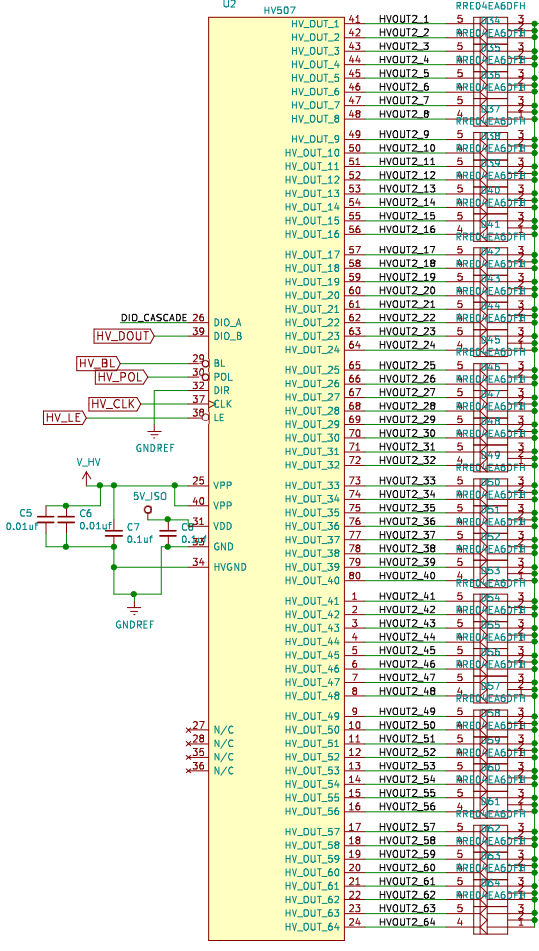
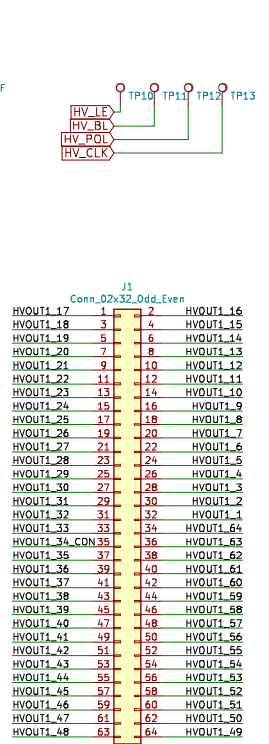
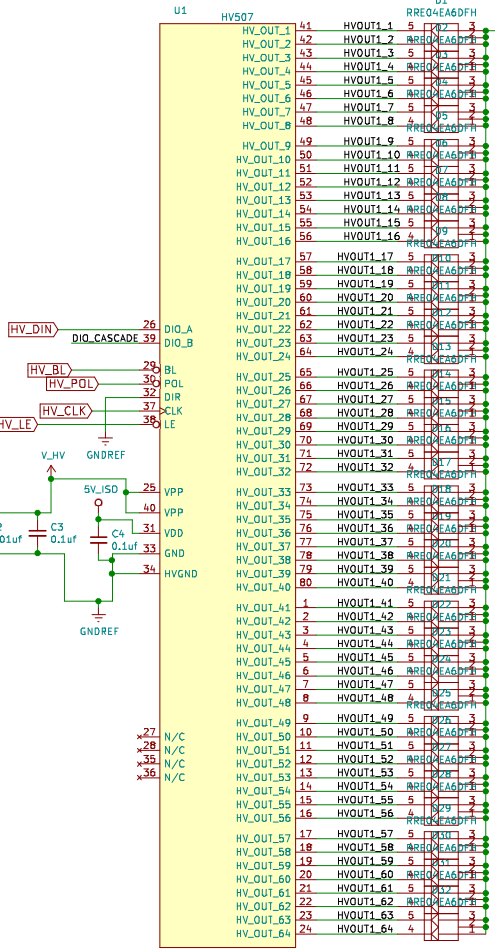
Rev: 6.1

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Id: 1/5

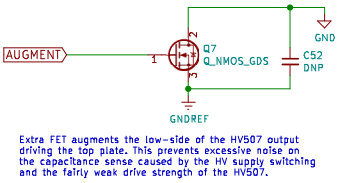
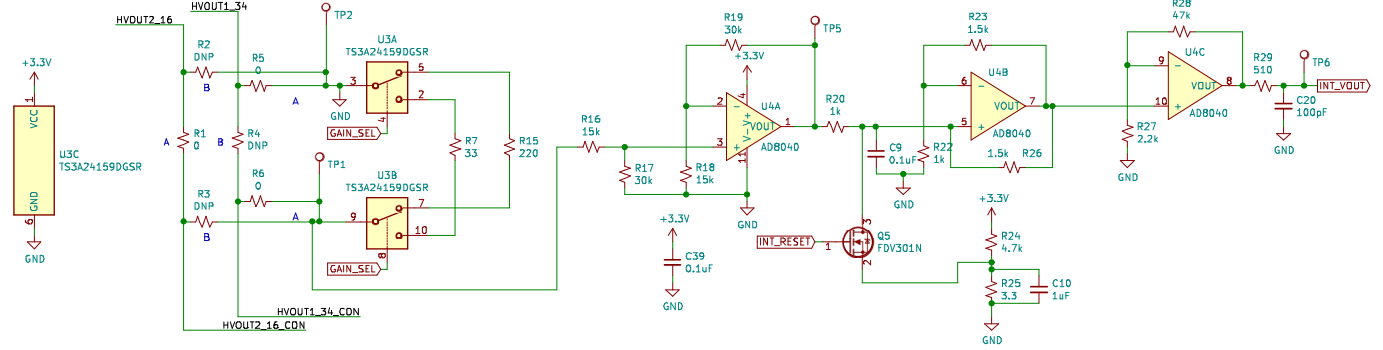
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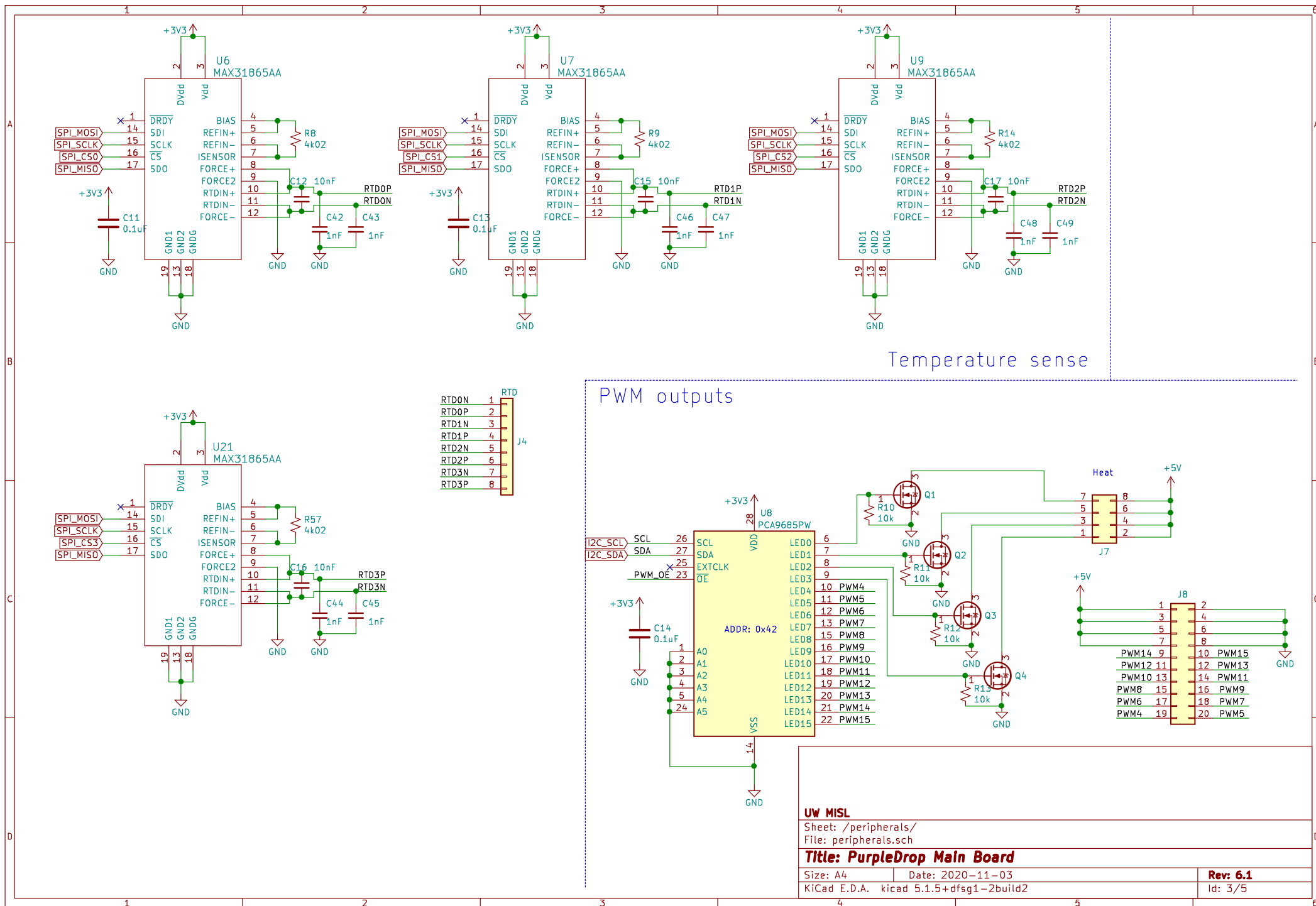
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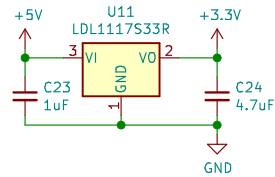


Pin	Function	Pin	Function
1	HV_OUT1	33	HV_OUT1
2	HV_OUT2	34	HV_OUT2
3	HV_OUT3	35	HV_OUT3
4	HV_OUT4	36	HV_OUT4
5	HV_OUT5	37	HV_OUT5
6	HV_OUT6	38	HV_OUT6
7	HV_OUT7	39	HV_OUT7
8	HV_OUT8	40	HV_OUT8
9	HV_OUT9	41	HV_OUT9
10	HV_OUT10	42	HV_OUT10
11	HV_OUT11	43	HV_OUT11
12	HV_OUT12	44	HV_OUT12
13	HV_OUT13	45	HV_OUT13
14	HV_OUT14	46	HV_OUT14
15	HV_OUT15	47	HV_OUT15
16	HV_OUT16	48	HV_OUT16
17	HV_OUT17	49	HV_OUT17
18	HV_OUT18	50	HV_OUT18
19	HV_OUT19	51	HV_OUT19
20	HV_OUT20	52	HV_OUT20
21	HV_OUT21	53	HV_OUT21
22	HV_OUT22	54	HV_OUT22
23	HV_OUT23	55	HV_OUT23
24	HV_OUT24	56	HV_OUT24
25	HV_OUT25	57	HV_OUT25
26	HV_OUT26	58	HV_OUT26
27	HV_OUT27	59	HV_OUT27
28	HV_OUT28	60	HV_OUT28
29	HV_OUT29	61	HV_OUT29
30	HV_OUT30	62	HV_OUT30
31	HV_OUT31	63	HV_OUT31
32	HV_OUT32	64	HV_OUT32

Current Sensing Resistor Routing  
Config "A" selects HVOUT1\_34  
Config "B" selects HVOUT2\_16  
Or, wire externally using test points

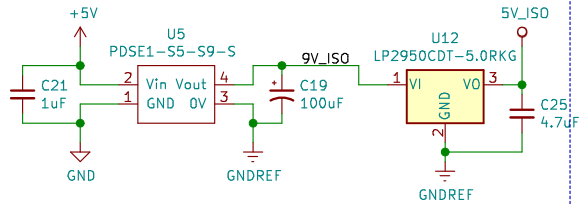




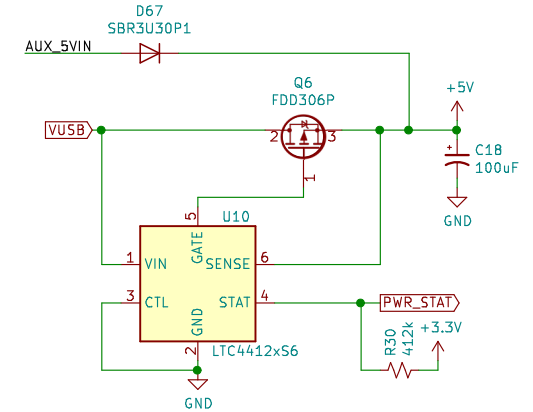
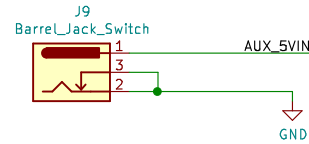


3.3V regulator

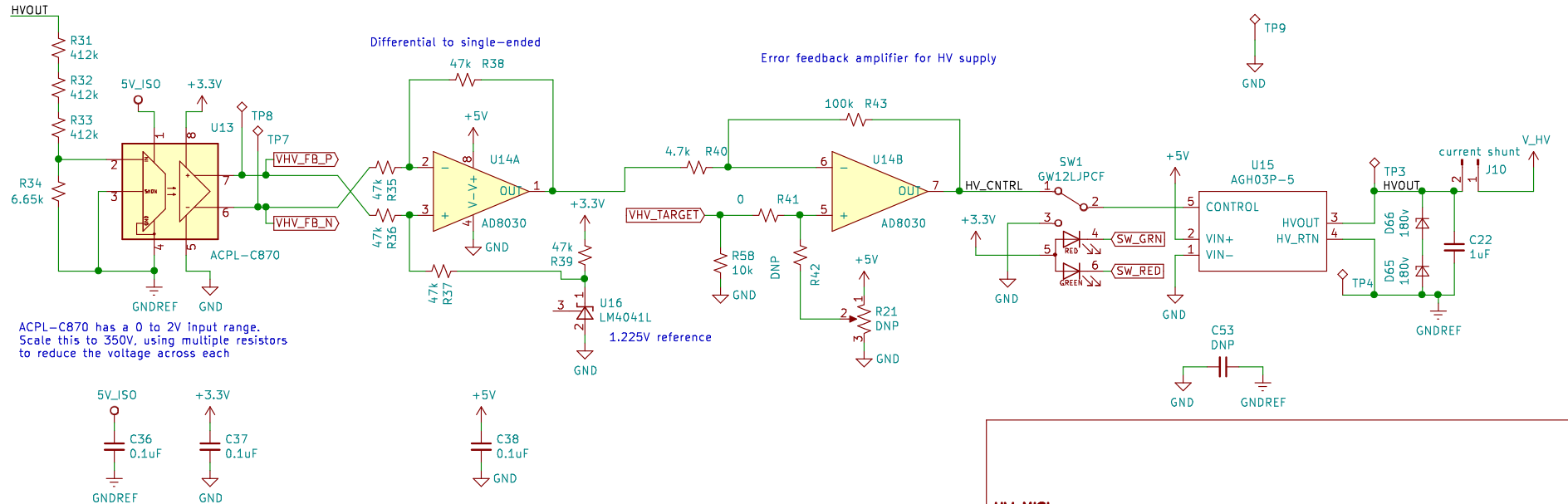
5V->9V\_ISO DC-DC convert stepped back down to 5V\_ISO, in order to allow a wider range of input voltage while keeping the 5V supply for HV507 tightly regulated.



Isolated 5V supply



Power Input Selection



UW MISL		
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Title: PurpleDrop Main Board		
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