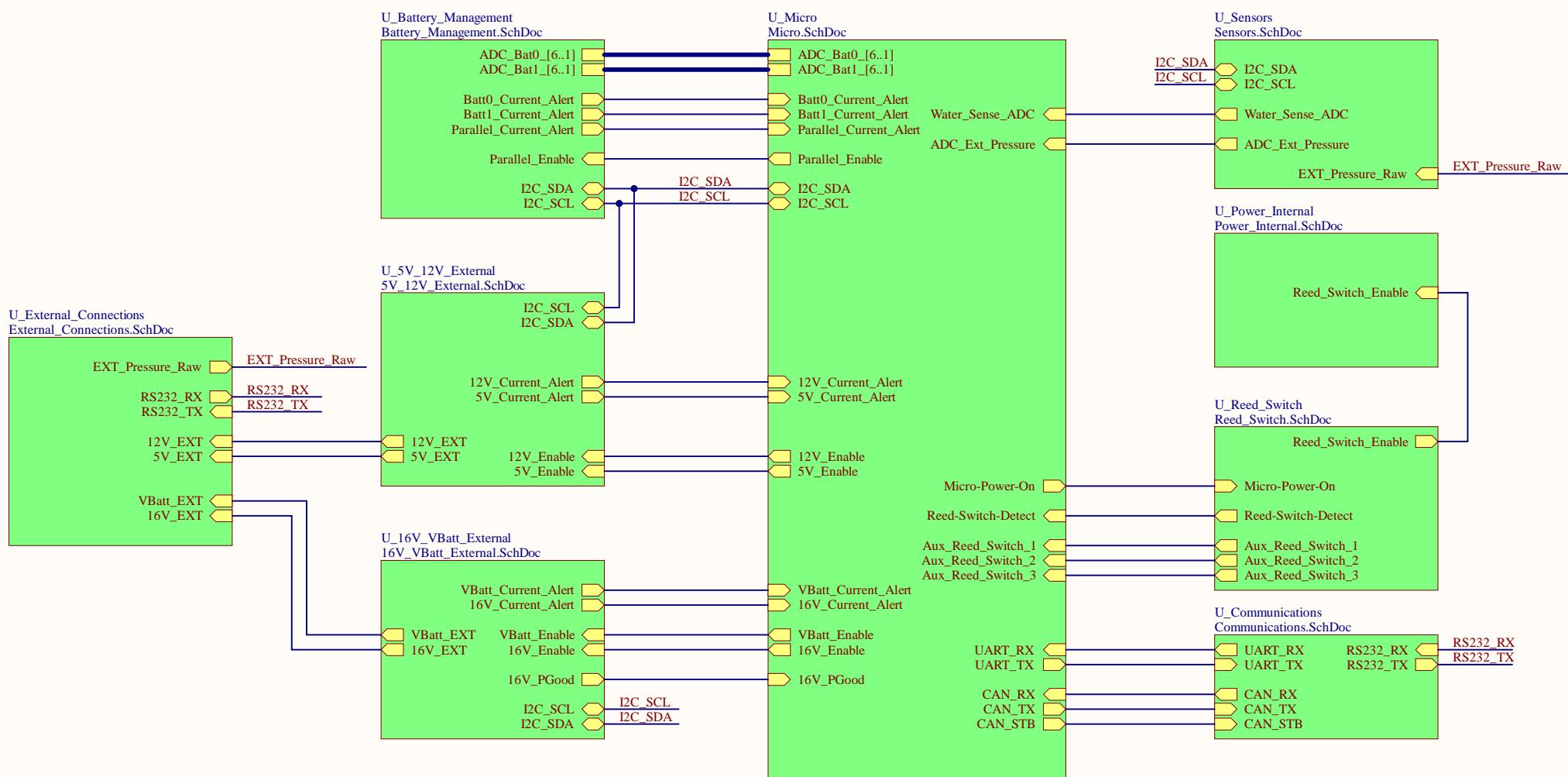


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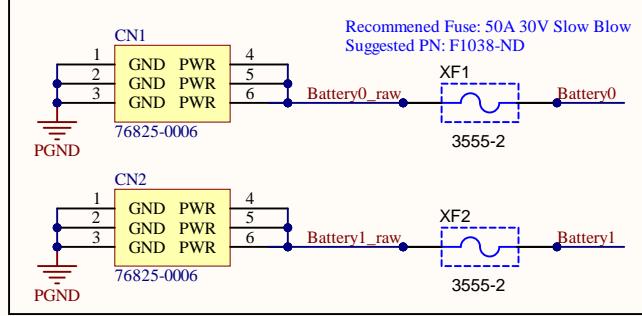
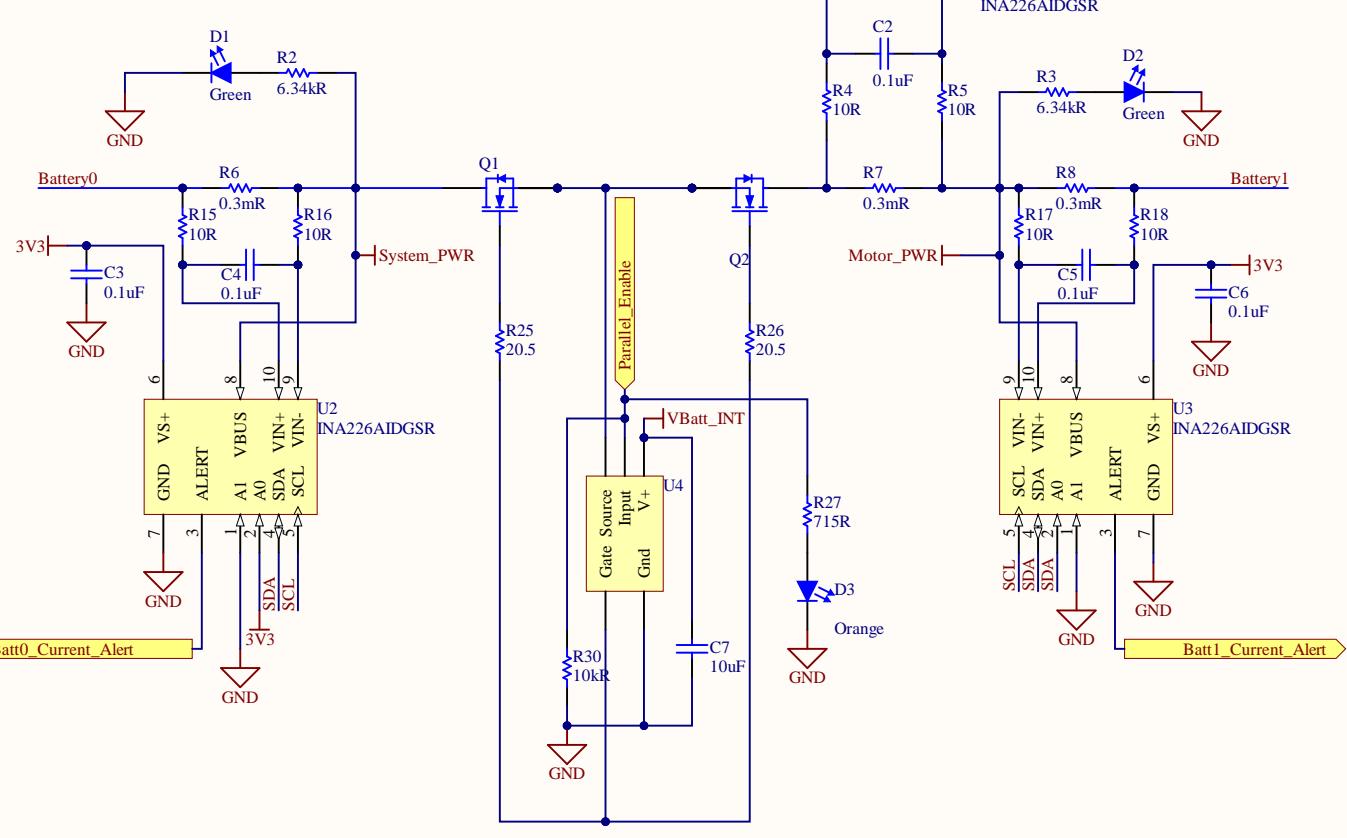
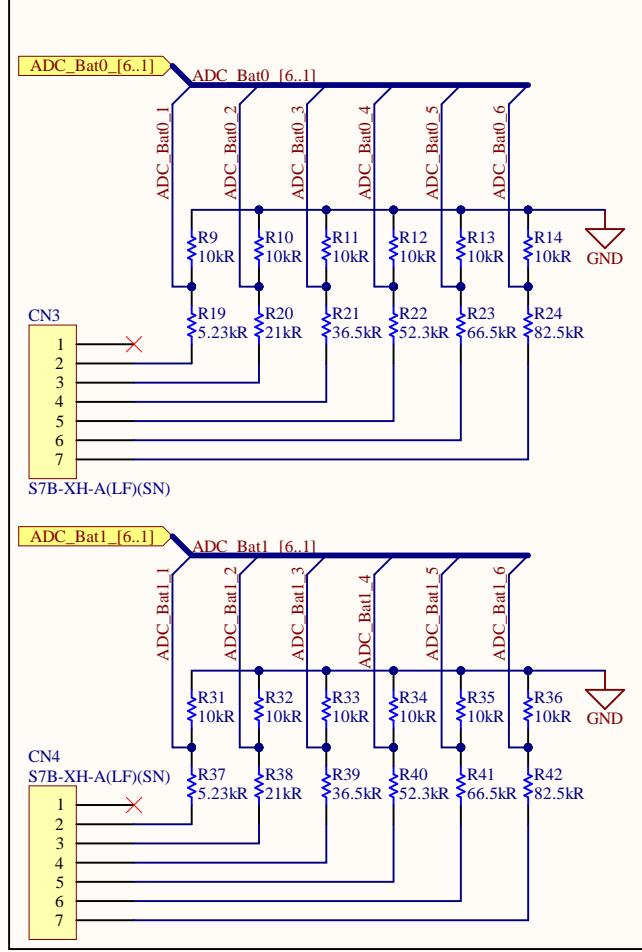
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Size	Number	Revision
A4		
Date:	12-08-2020	Sheet of
File:	C:\Poorna...\\Master.SchDoc	Drawn By:

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Battery Input Terminal and Fuse, Input Voltage Range 18V to 28V

Battery Current Monitor, Battery Bridge

Battery Cell Voltage Monitor


Title

Size	Number	Revision
A4		
Date:	12-08-2020	Sheet of
File:	C:\Poorna...\Battery_Management.SchDoc	Drawn By: Gurdeep Sihota

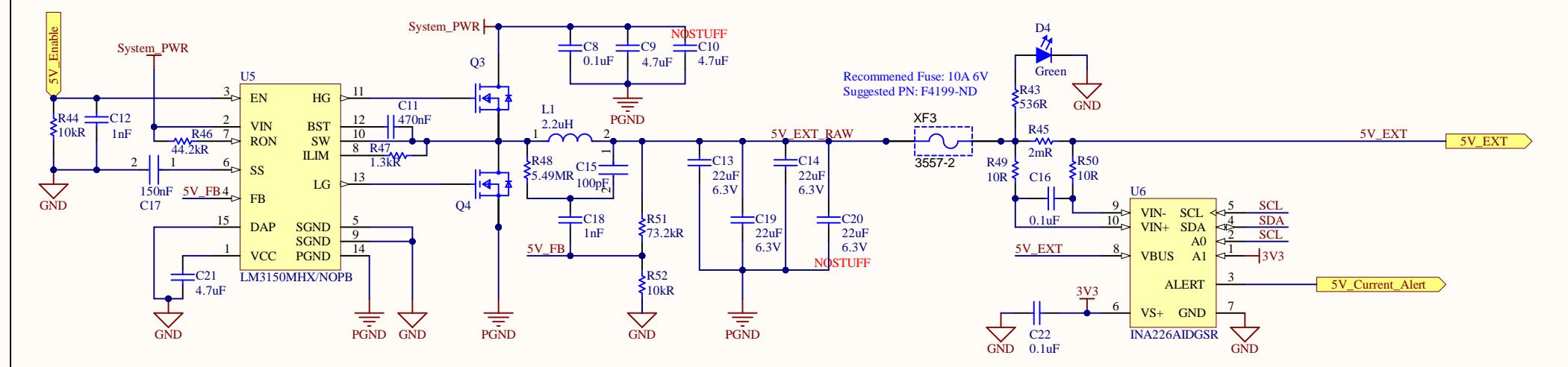
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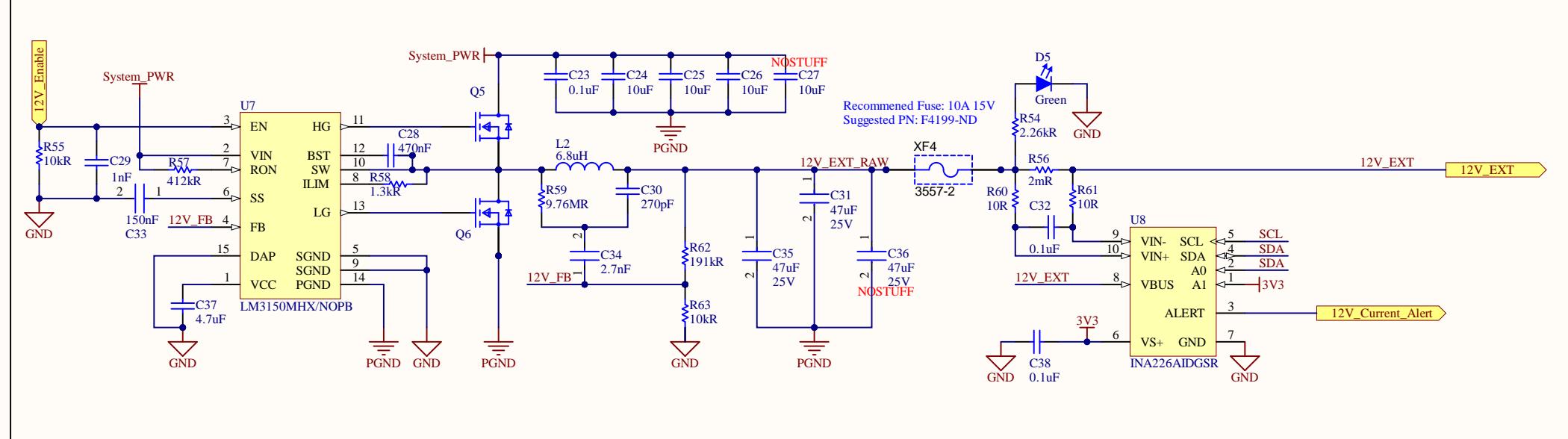
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5V External Supply, 10A



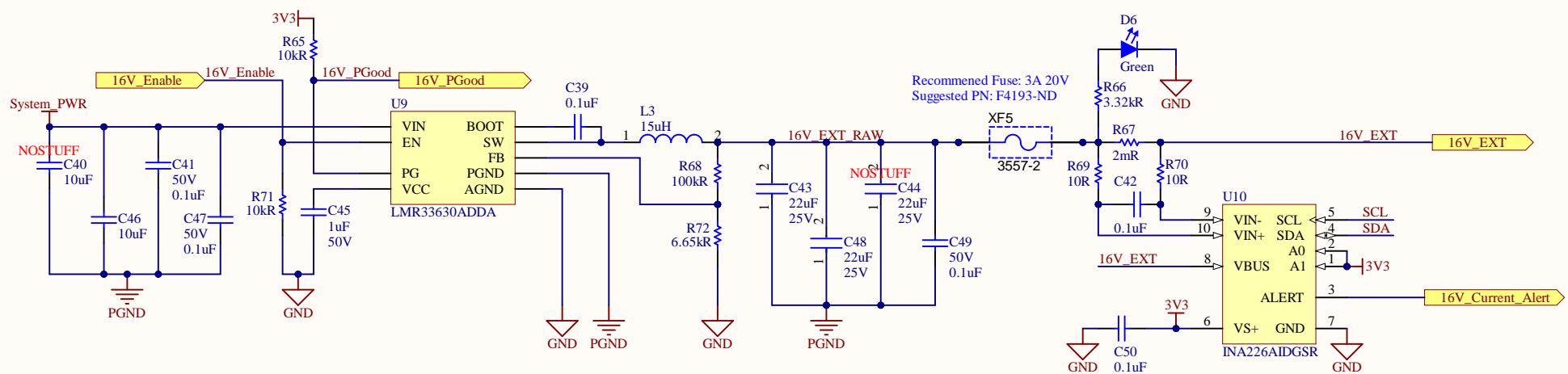
12V External Supply, 10A



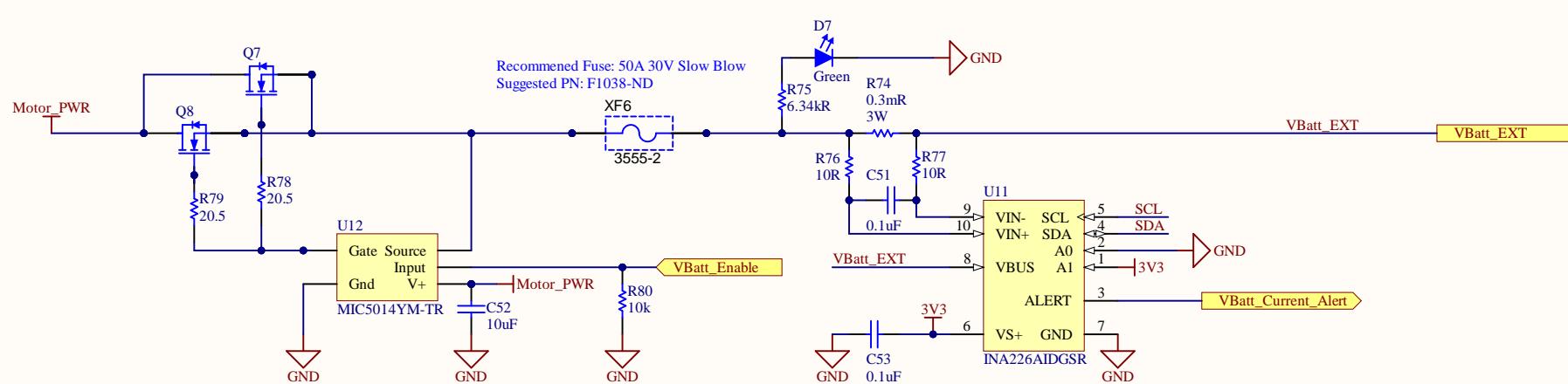
I₂C_SCL SCL
I₂C_SDA SDA

Title		
Size	Number	Revision
A4		
Date:	12-08-2020	Sheet of
File:	C:\Poorna\..\\5V_12V_External.SchDoc	Drawn By: Poorna Chander Kalidas

16V External Supply, 3A



VBatt External Supply, 18V to 28V, 60A

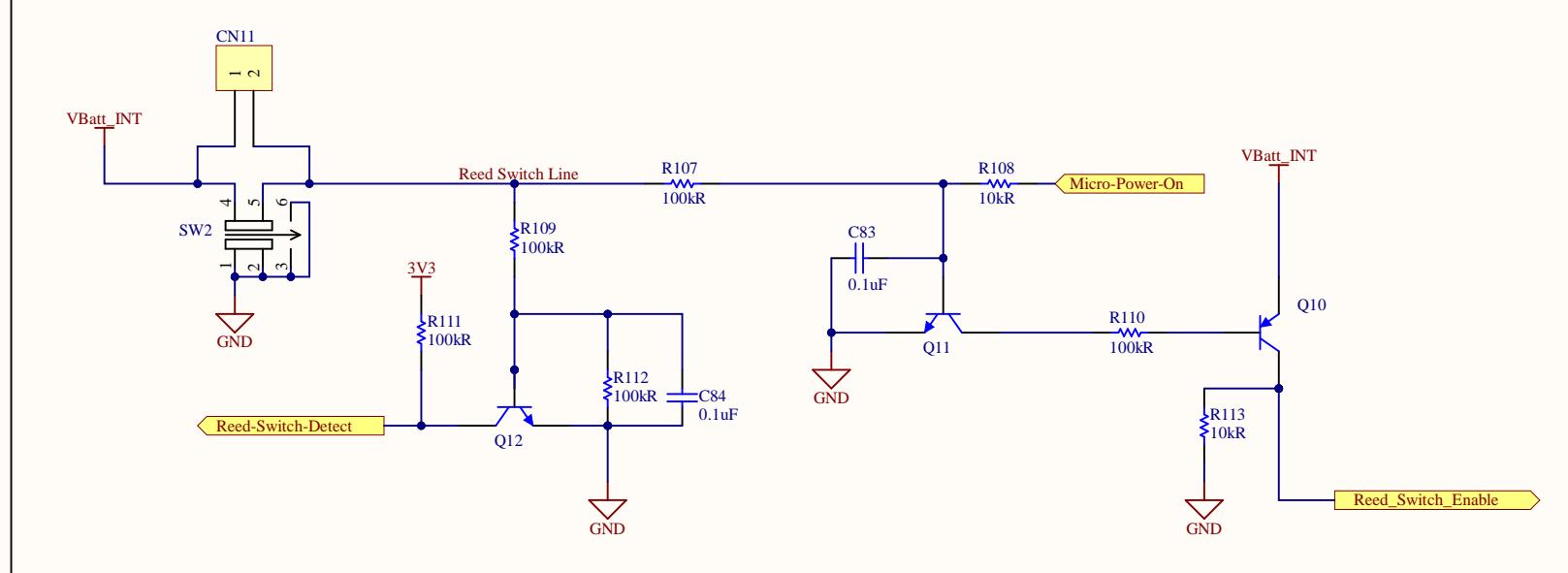


I2C_SCL
I2C_SDA

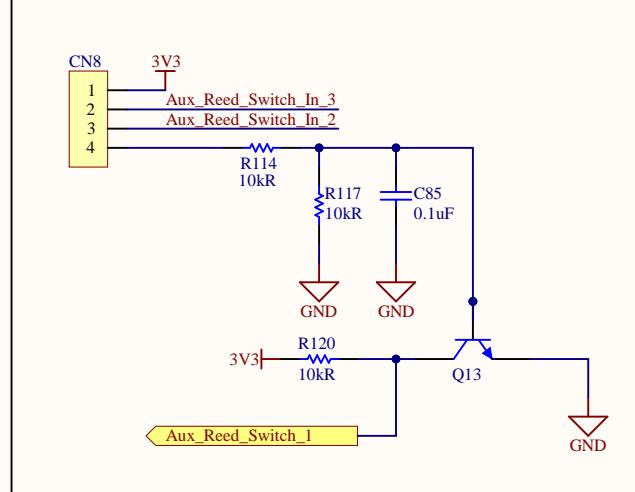
SCL
SDA

Title		
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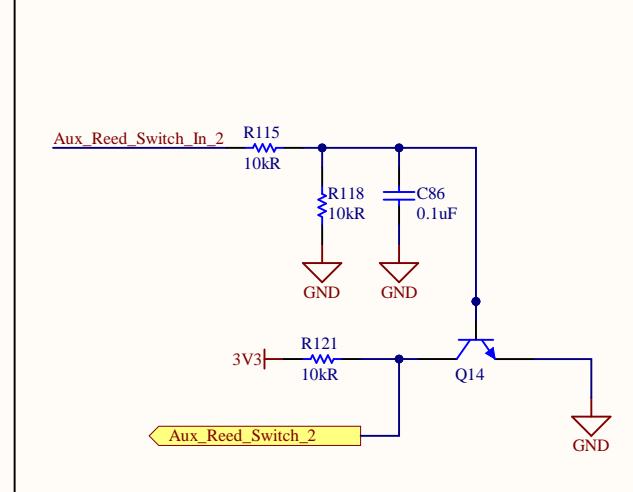
Power Reed Switch



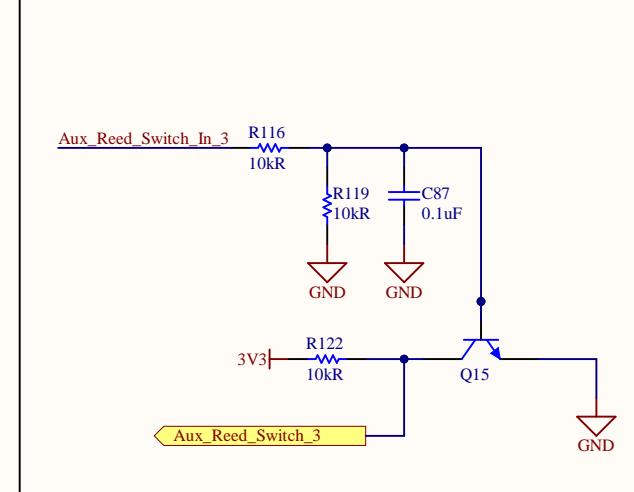
Auxiliary Reed Switch 1



Auxiliary Reed Switch 2



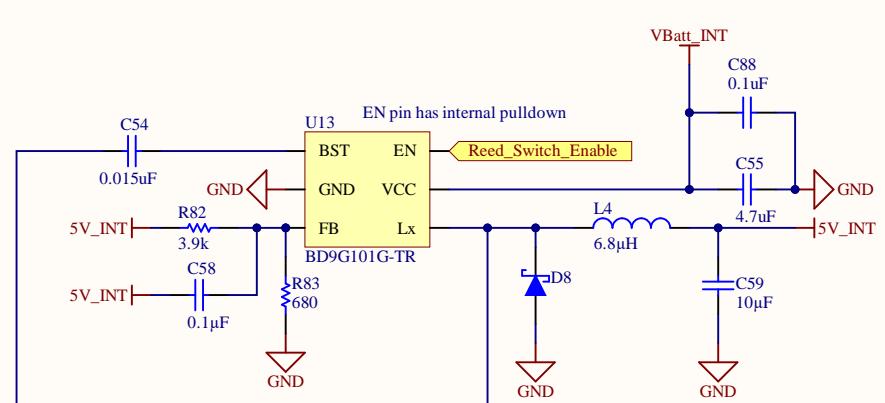
Auxiliary Reed Switch 3



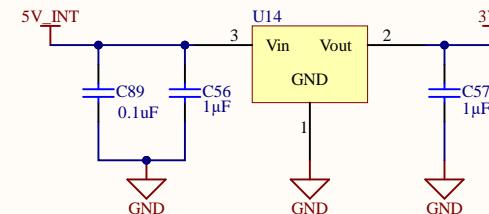
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Size	Number	Revision
A4		
Date:	12-08-2020	Sheet of
File:	C:\Poorna\Reed_Switch.SchDoc	Drawn By: Jessica Jiang

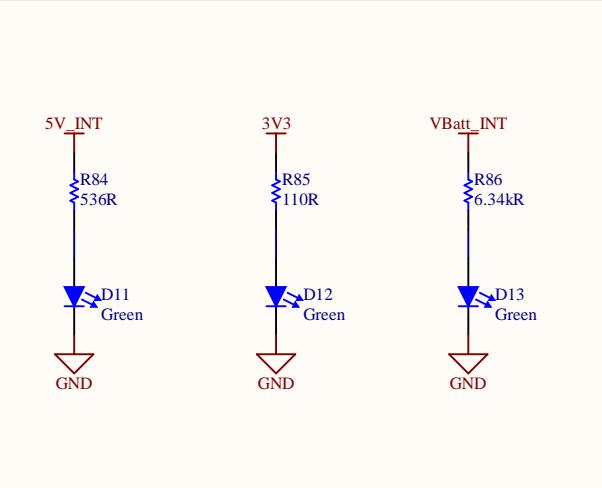
5V Internal Supply, 500mA



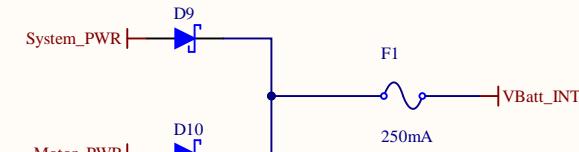
3V3 Internal Supply, 250mA



Status LEDs

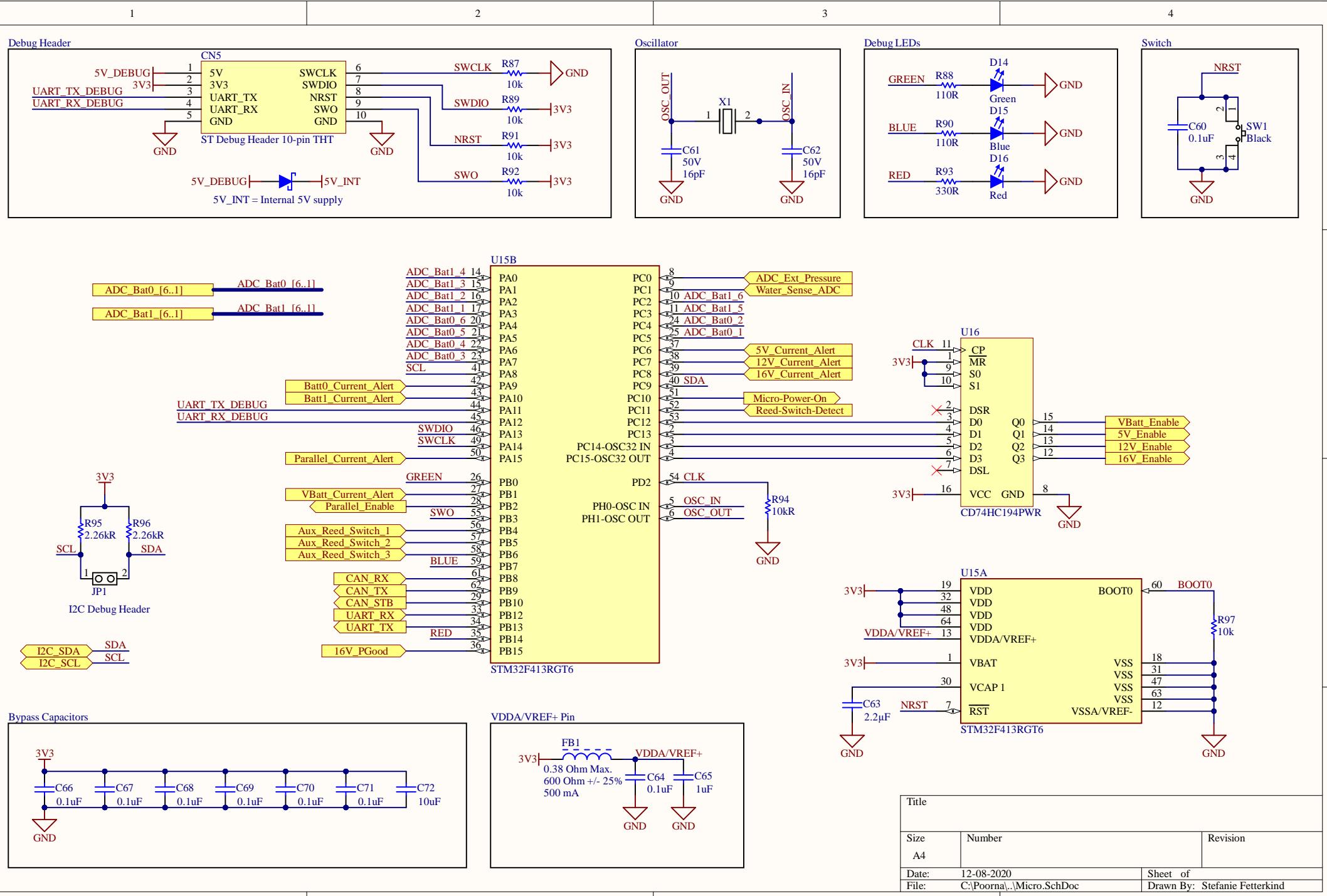


VBatt Internal Supply, 500mA



Title

Size	Number	Revision
A4		
Date: 12-08-2020	Sheet of	
File: C:\Poorna\Power_Internal.SchDoc		Drawn By: Poorna Chander Kalidas



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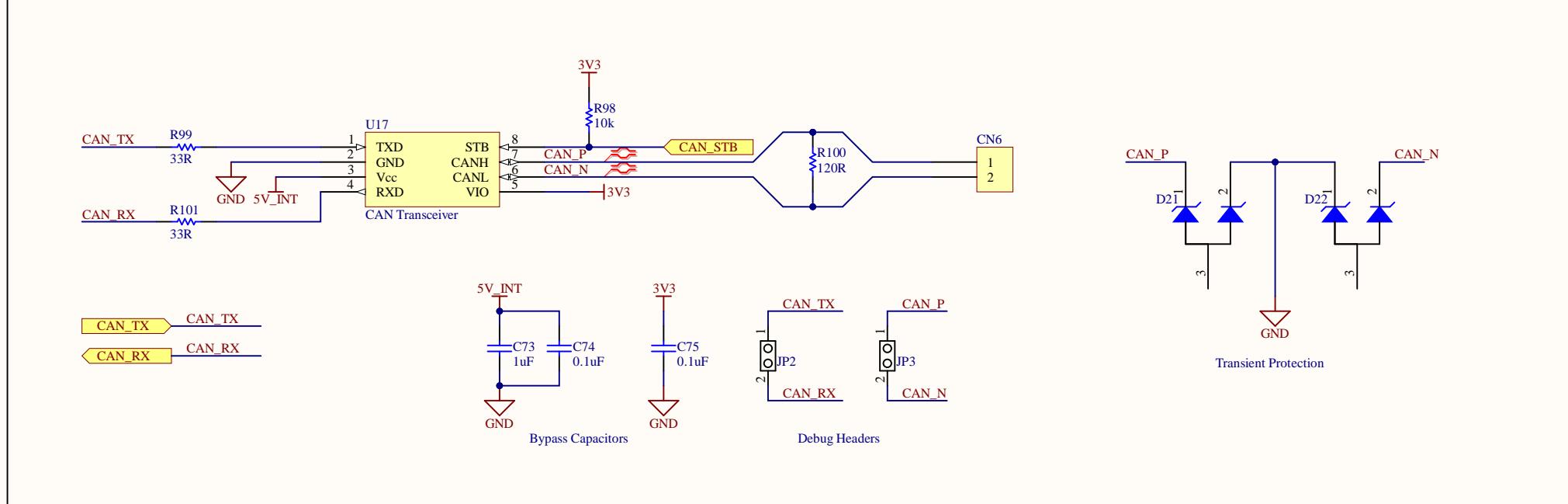
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CAN Tranceiver



Title		
Size	Number	Revision
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Date:	12-08-2020	Sheet of
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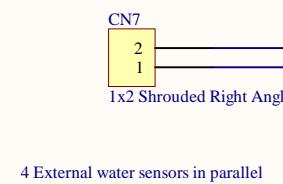
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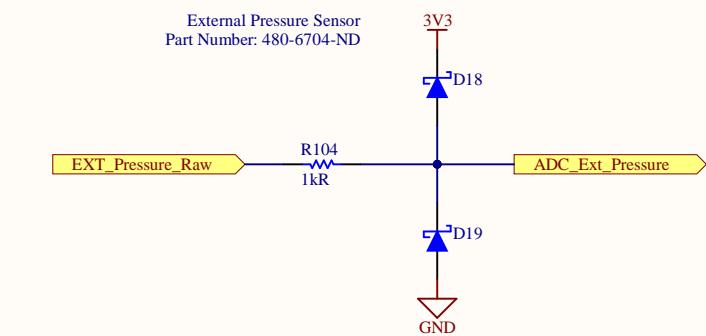
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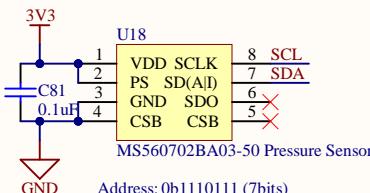
Water Sensor



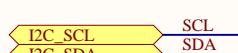
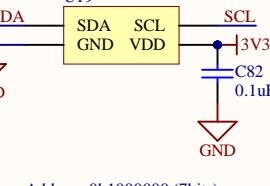
External Pressure Sensor



Internal Pressure Sensor (Housing Pressure)



Internal Pressure Sensor (Housing Pressure)



Title

Size	Number	Revision
A4		
Date:	12-08-2020	Sheet of
File:	C:\Poorna...\\Sensors.SchDoc	Drawn By: Jessica Jiang

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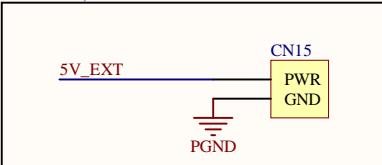
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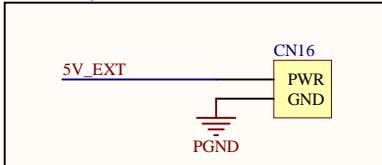
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5V

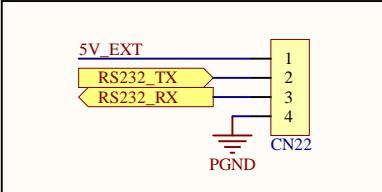
LCD Board, 5V @ 4A



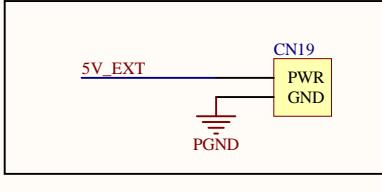
Unallocated, 5V



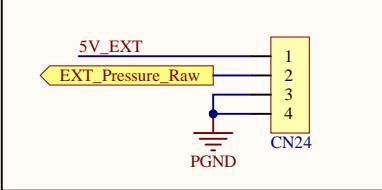
IMU, 5V @ 500mA



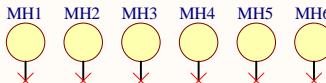
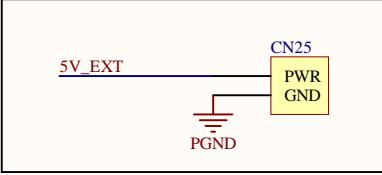
Unallocated, 5V



Depth Sensor, 5V @ 3mA



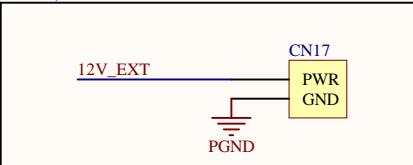
Hydrophones, 5V @ 250mA



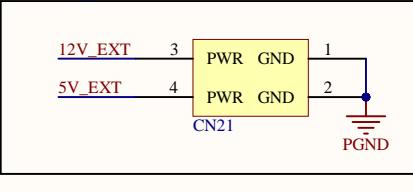
5V_EXT → 5V_EXT
12V_EXT → 12V_EXT
16V_EXT → 16V_EXT
VBatt_EXT → VBatt_EXT

12V

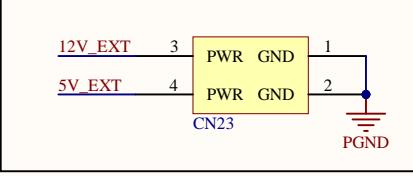
DVL, 12V @ 3A



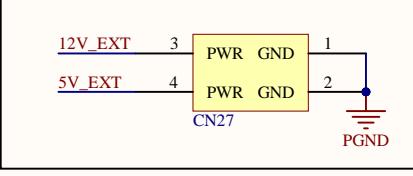
Ball Dropper and Grabber Arm, 12V @ 3A



Unallocated, 12V

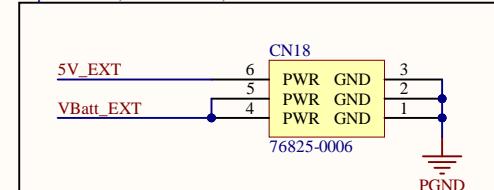


Unallocated, 12V

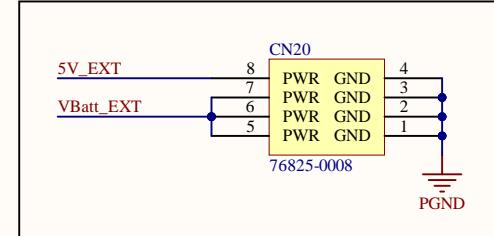
**VBatt**

18V to 28V

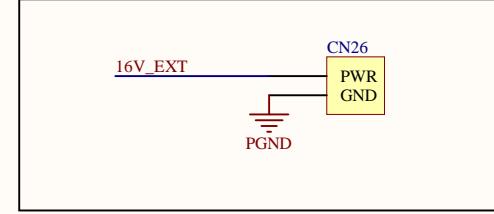
Topedo Board, VBatt @ 30A, 5V @ 250mA



Motor Controller, VBatt @ 60A, 5V @ 250mA

**16V**

Nvidia Jetson TX2, 16V @ 3A



Title

Size

A4

Number

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Date: 12-08-2020

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File: C:\Poorna...\\External_Connections.SchDoc

Drawn By: Poorna Chander Kalidas

