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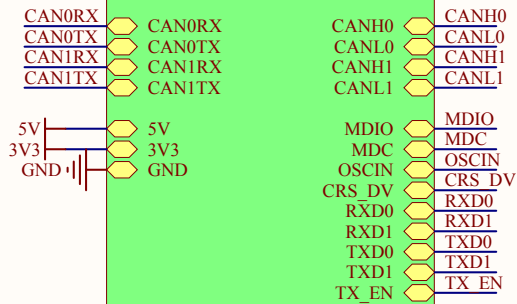
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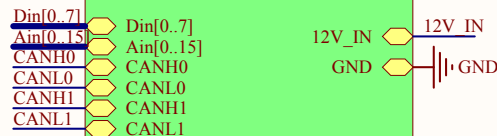
D

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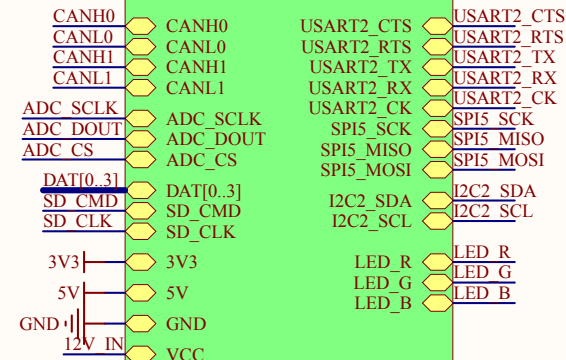
Digital Communications DigitalComm.SchDoc



Main Connectors Connectors.SchDoc



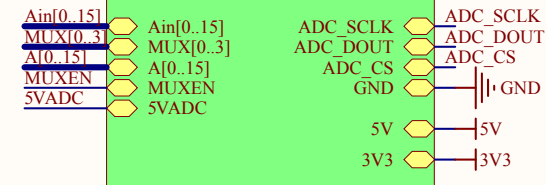
Breakouts and Probes Breakouts.SchDoc



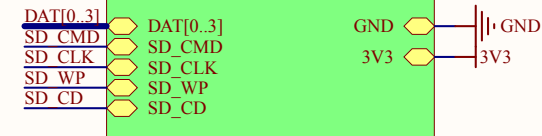
Digital Input DigitalCapture.SchDoc



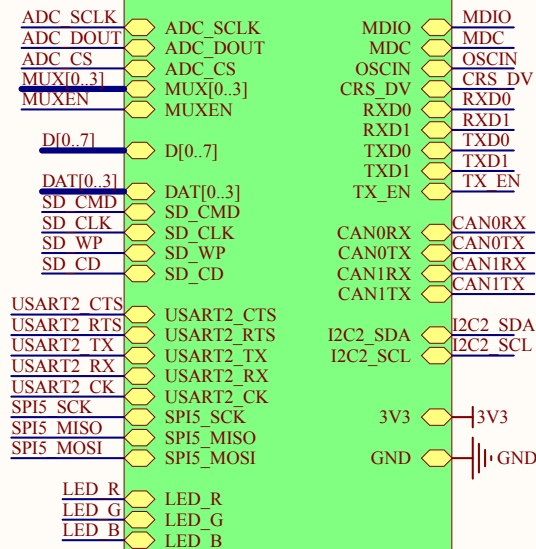
Analog Input AnalogCapture.SchDoc



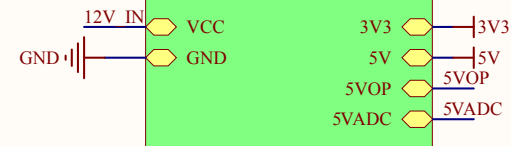
SD Card SDCard.SchDoc



MCU MCU.SchDoc



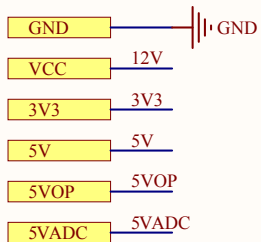
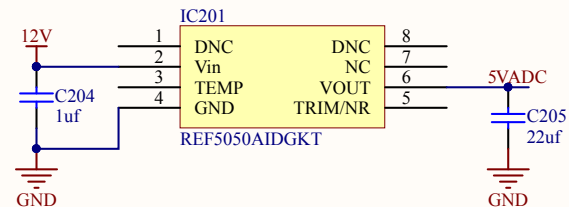
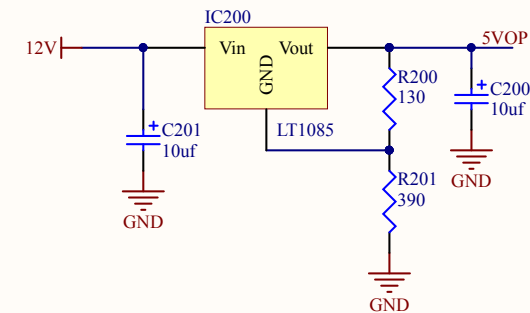
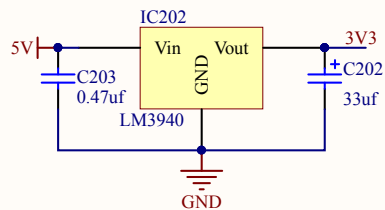
Power Supplies PowerSupplies



Title DAQ Top Sheet		
Size A	Number	Revision
Date: 12/11/2015	Sheet 1 of 9	
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May be replaced with a switching regulator
This can work without any issues, but thermal dissipation is not ideal

5VOP 5V



Title		
Power Supplies		
Size	Number	Revision
A		
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A

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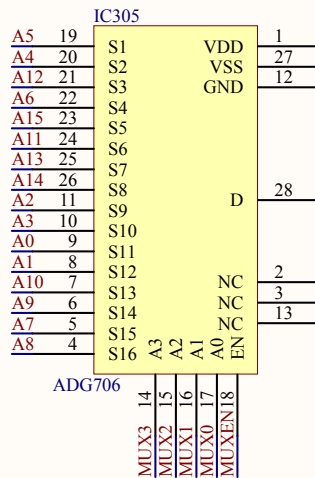
A

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C

D

510 Ohm and 150nF gives
2kHz cutoff freq



MUX[0..3]

MUXEN

Ain[0..15]

A[0..15]

5VADC

5V

3V3

GND

ADC_SCLK

ADC_DOUT

ADC_CS

ADC_IN

ADC_VREF

ADC_VIO

ADC_SCLK

ADC_DOUT

ADC_CS

ADC_IN

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ADC_VIO

ADC_SCLK

ADC_DOUT

ADC_CS

ADC_IN

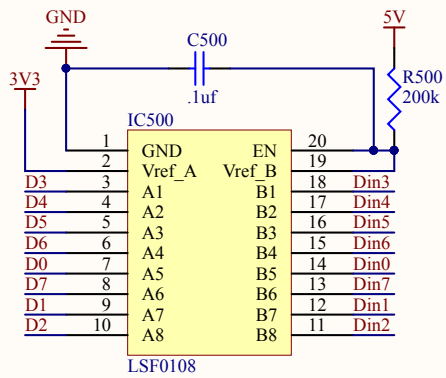
ADC_VREF

ADC_VIO

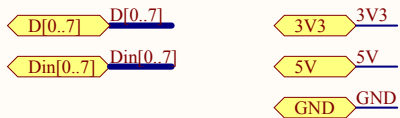
ADC_SCLK

ADC_DOUT

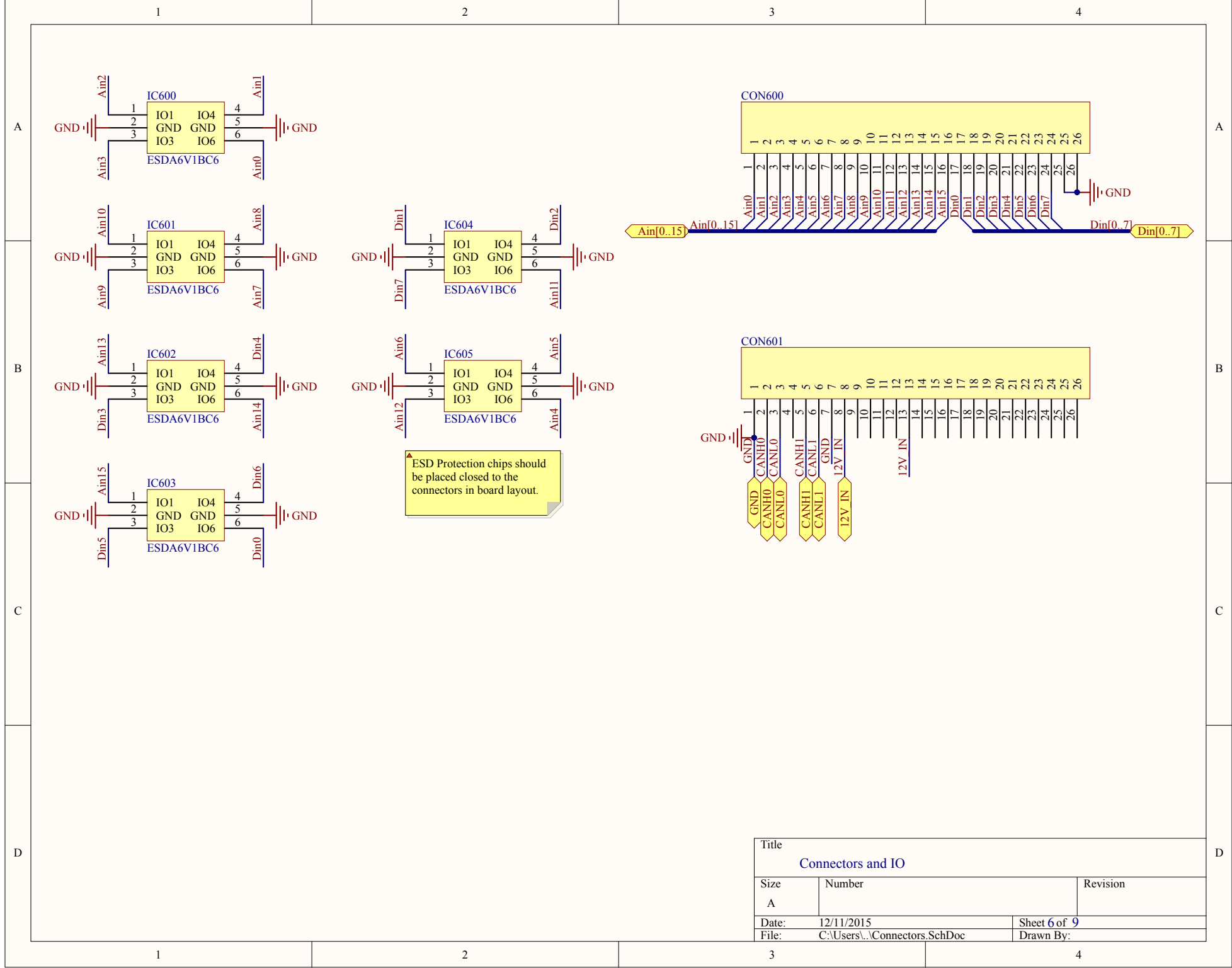
ADC_CS



▲ If we have signal integrity issues, we will need to put in pull up resistors. For low frequency applications, I believe that pull-ups should not be required.



Title		
Digital Capture		
Size	Number	Revision
A		
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Title		
Connectors and IO		
Size	Number	Revision
A		
Date:	12/11/2015	Sheet 6 of 9
File:	C:\Users\...\Connectors.SchDoc	Drawn By:

A

B

C

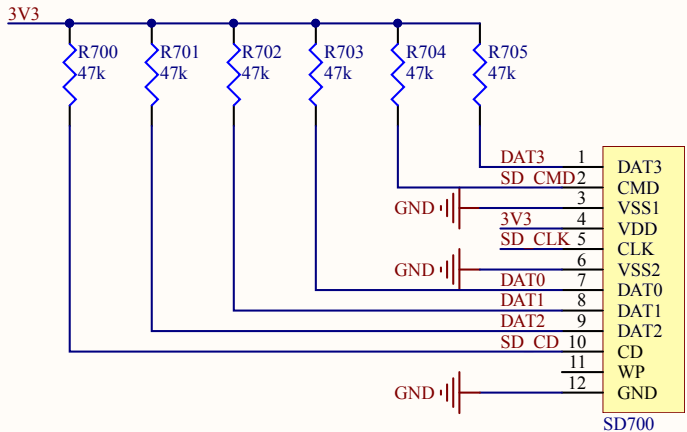
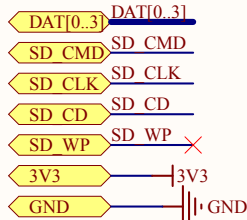
D

A

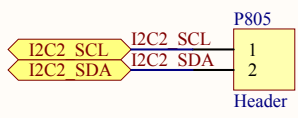
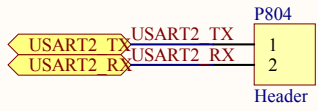
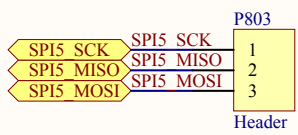
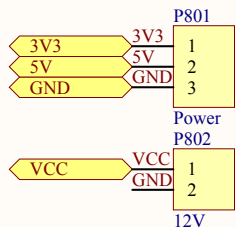
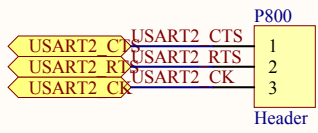
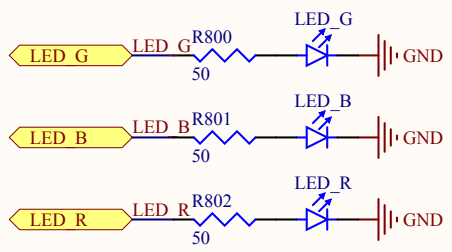
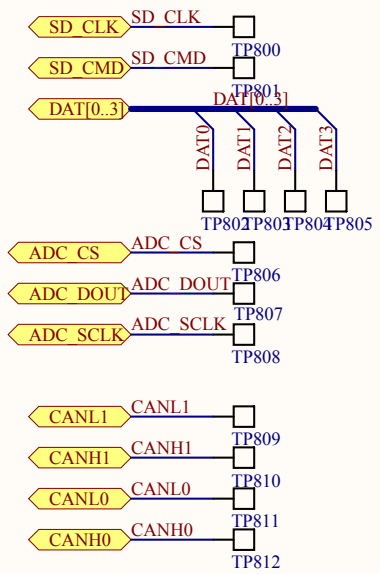
B

C

D



Title		
SD Card		
Size	Number	Revision
A		
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Title Breakouts and Testpoints		
Size A	Number	Revision
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