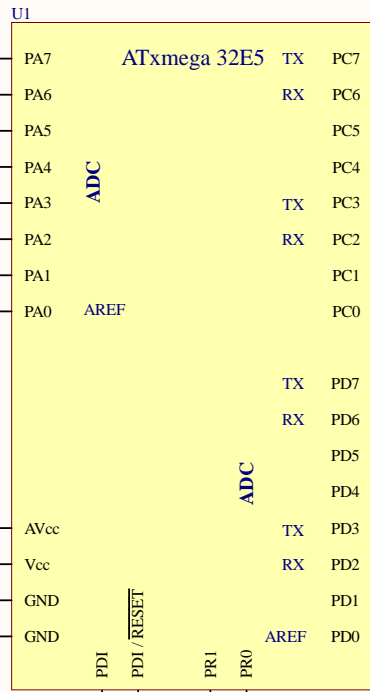
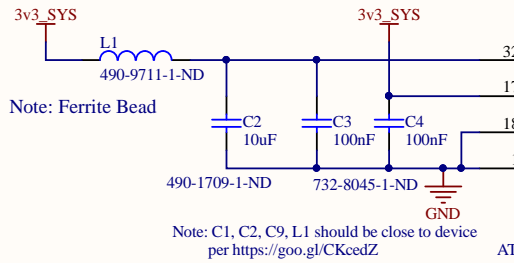


MCU



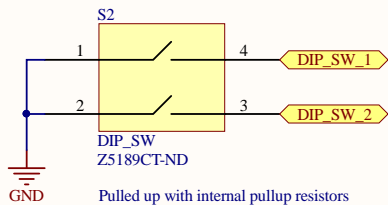
Source Code

Note: Source code can be found at:
<https://github.com/OSURoboticsClub/InventoryManagement>

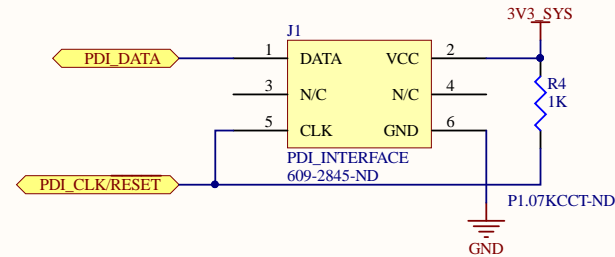


TODO: Do we want some voltage divider references on the ADC inputs?

Settings Switch



MCU PDI

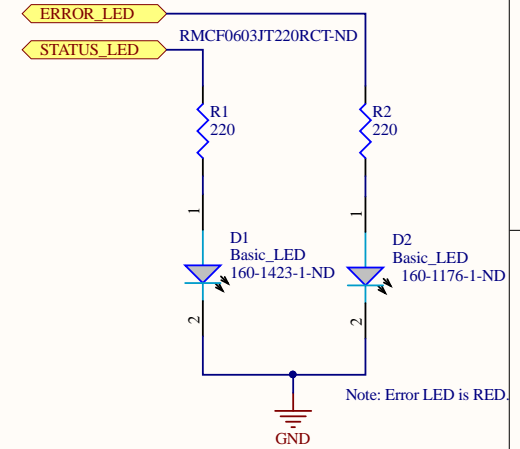


XMega ADC Application Notes

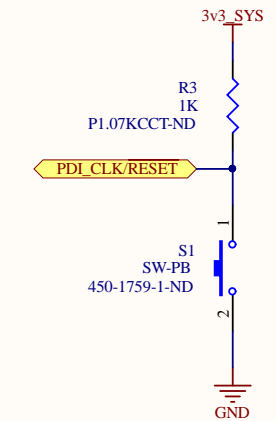
Note: One of the first 7 channels needs to be GND, for our reference
 Note: AREFA and AREFD are bit 0
 Note: They need to be fed (3v3-.6) volts if used

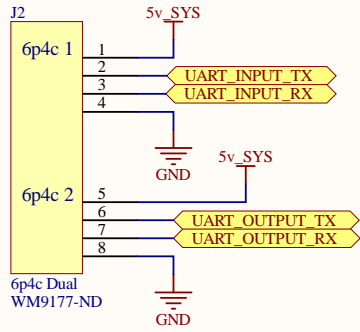
TODO: Add fixed voltage reference

MCU LEDs



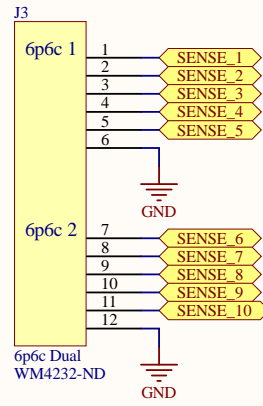
MCU Reset



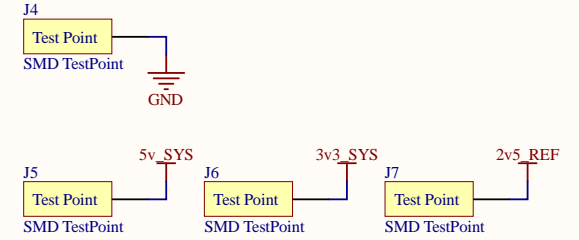


System Input

System Output



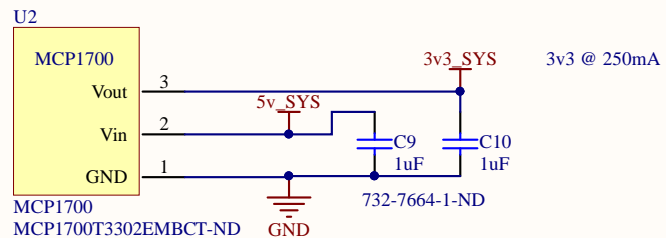
Drawer Sense



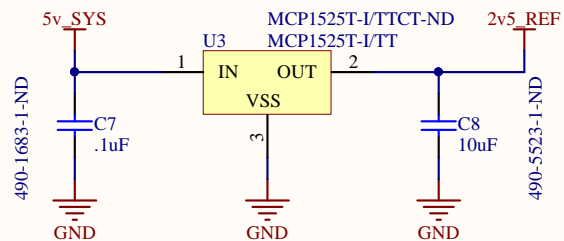
Title Interfaces.SchDoc		
Size: A4	Number: 1	Engineer: Nick McComb
Date: 1/8/2017	Time: 1:11:13 AM	Sheet 1 of 6
File: C:\Users\nrpc_000\Google Drive\ECE Capstone - Inventory Management System 2016-2017\Hardware\Drawer Sensing PCB\I		

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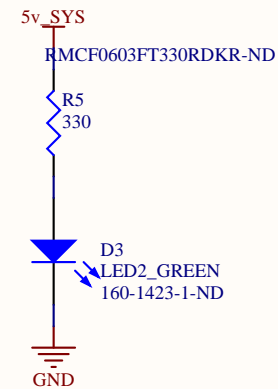
3v3 Linear



2v5v Reference

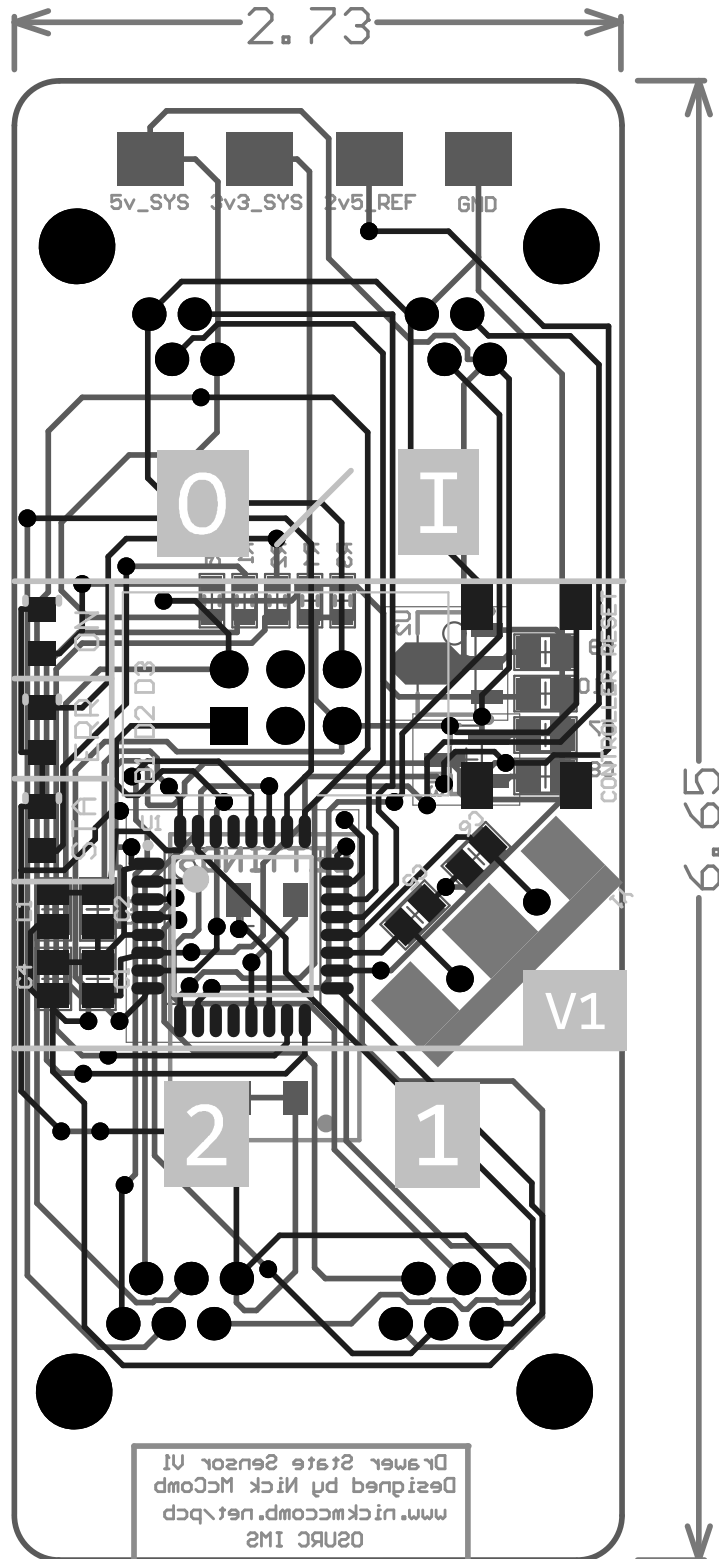


Max Current: 8mA



Title PowerManagement.SchDoc		
Size: A4	Number: 2	Engineer: Nick McComb
Date: 1/8/2017	Time: 1:11:13 AM	Sheet 2 of 6
File:		

Cannot open file
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2.73

6.65

5v_SYS 3v3_SYS 2v5_REF GND

0

I

V1

2

1

02URC 1MS
www.nickmcomp.net~pcb
Designed by Nick McComp
Drawer State Sensor V1