

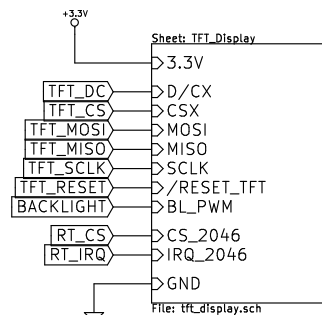
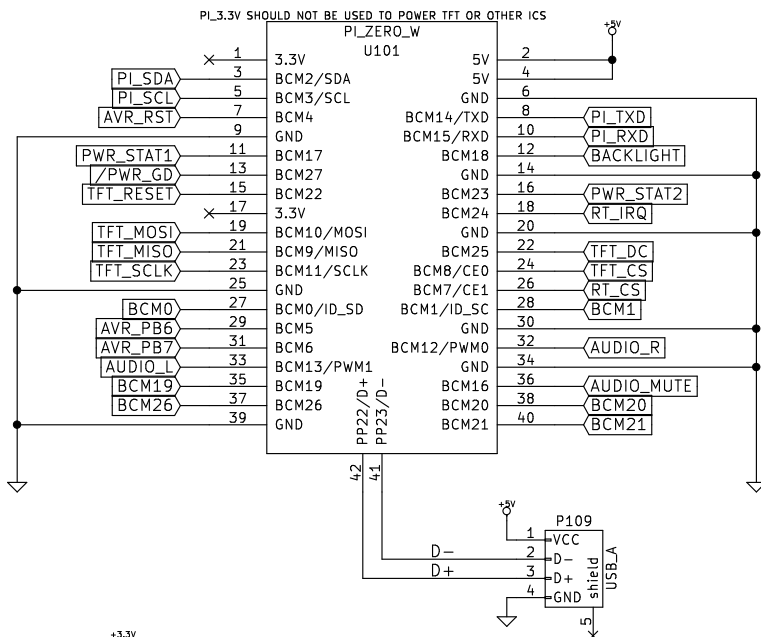
# PCB NOTES

- ADD PROTOTYPING AREA TO FREE SPACE
- DUAL NAV/BUTTON PADS
- MICRO USB AND USB A CONNECTORS
- EASY MICROSD CARD ACCESS
- HDMI ACCESS?
- TYPE A USB COULD BE BOARD TO MICROUSB CABLE ASSY
- POGO CONTACT: 0906-0-15-20-76-14-11-0
- REQUIRE PROTECTED LI-ION. SPACE TERMINALS ACCORDINGLY
- SPEAKER MOUNTING? VOLUME CONTROL?

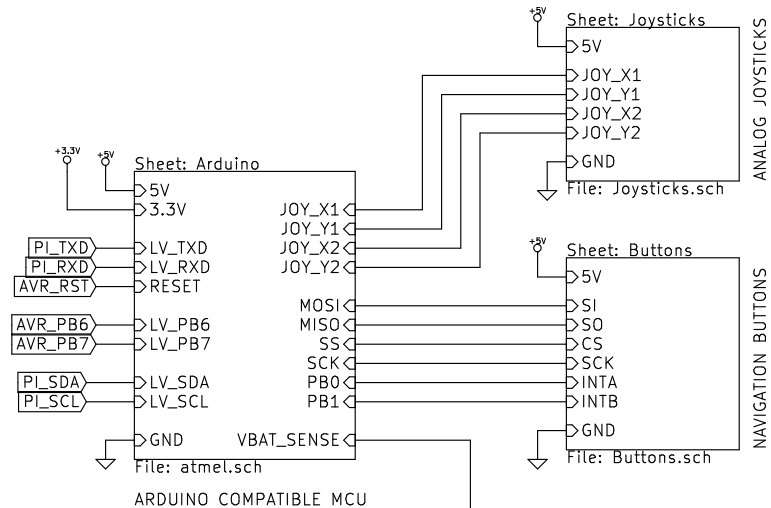
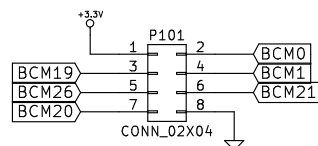
## OTHER:

- RTC
- SENSORS
- HAT EEPROM
- MICRO USB ID
- KEYSTONE 4882 STANDOFFS FOR THE PI

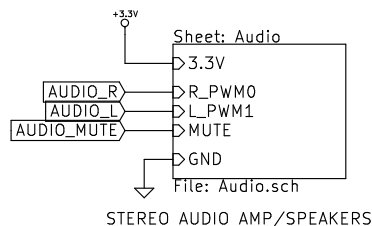
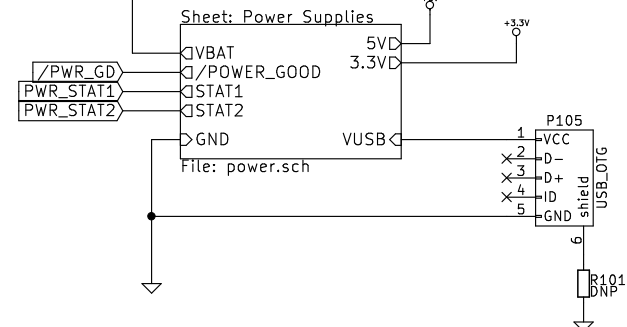
PROBABLY CAN'T HAVE STEREO AUDIO AND PWM BACKLIGHT.  
- SOFTWARE PWM?



3.5" TFT DISPLAY WITH RESISTIVE TOUCH SCREEN



## LI-ION CHARGER/BATTERIES/POWER SUPPLIES



STEREO AUDIO AMP/SPEAKERS

## Cerulean Submergence LLC

contact@ceruleansubmergence.com  
ceruleansubmergence.com

Sheet: /  
File: OmniJoy-Mini.sch

### Title: OMNIJOY MINI CONTROLLER

Size: USLetter Date: 2017-10-10

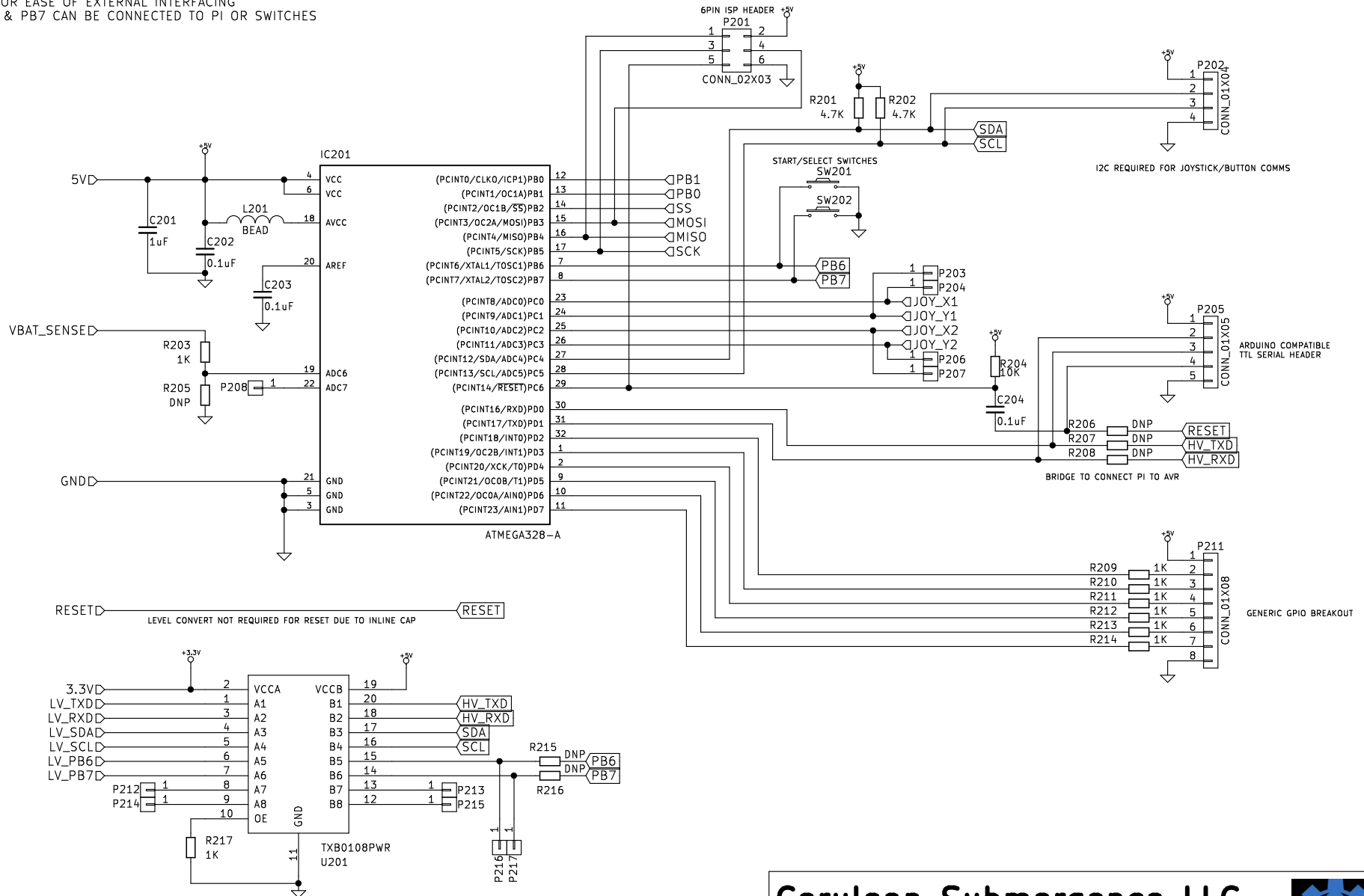
KiCad E.D.A. kicad 4.0.4-stable

Rev: 0

Id: 1/7



- NO EXTERNAL CLOCK FOR SIMPLICITY AND POWER SAVINGS
- 5V FOR EASE OF EXTERNAL INTERFACING
- PB6 & PB7 CAN BE CONNECTED TO PI OR SWITCHES



LEVEL CONVERTERS\*  
 \*BECAUSE ANYONE CAN PROGRAM THE AVR PINS AS OUTPUTS. OOPS!  
 SPARES BROKEN OUT

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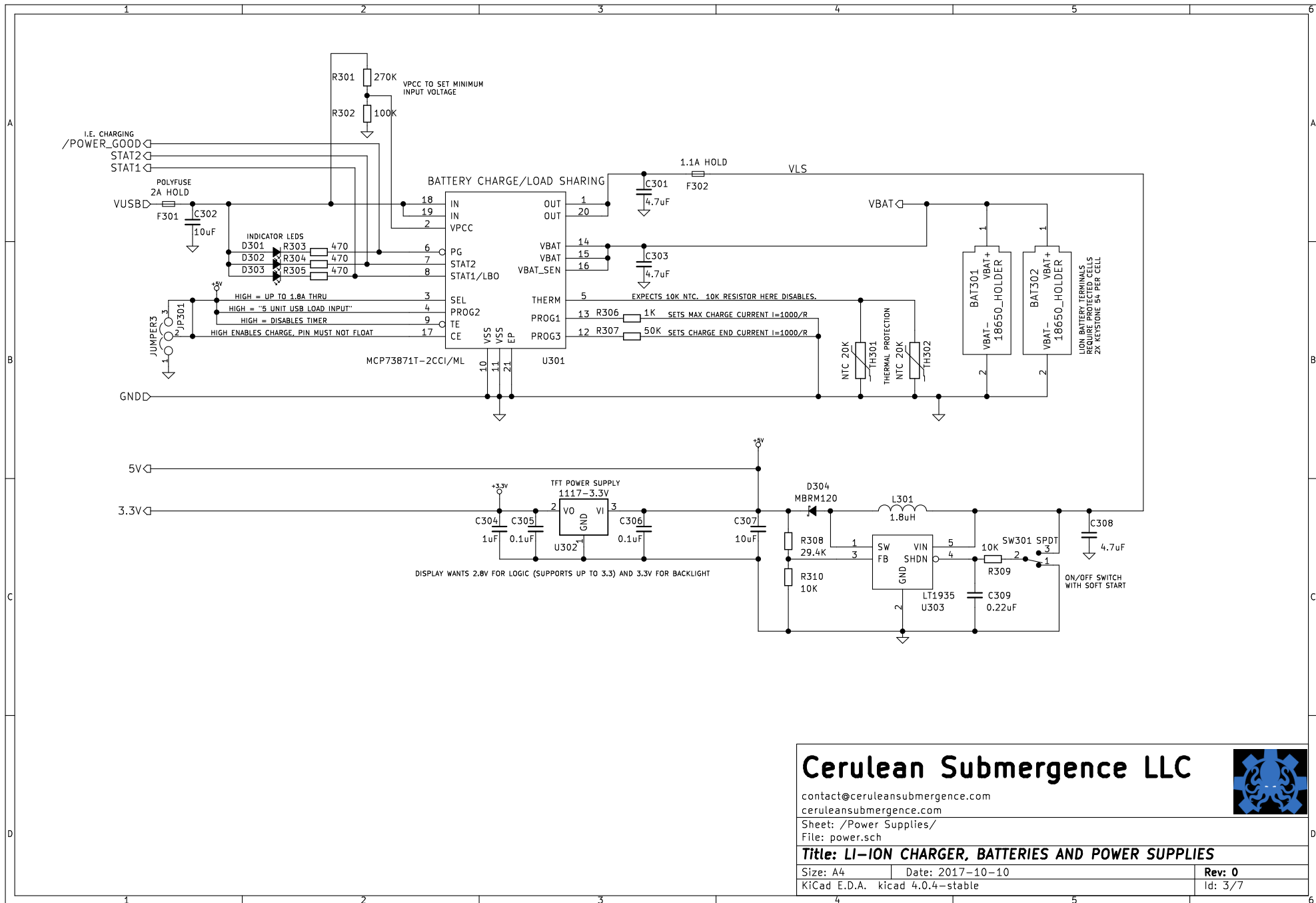
Sheet: /Arduino/  
 File: atm1.sch

**Title: ARDUINO COMPATIBLE CO-PROCESSOR**

Size: USLetter Date: 2017-10-10  
 KiCad E.D.A. kicad 4.0.4-stable

Rev: 0  
 Id: 2/7





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Sheet: /Power Supplies/  
File: power.sch

**Title: LI-ION CHARGER, BATTERIES AND POWER SUPPLIES**

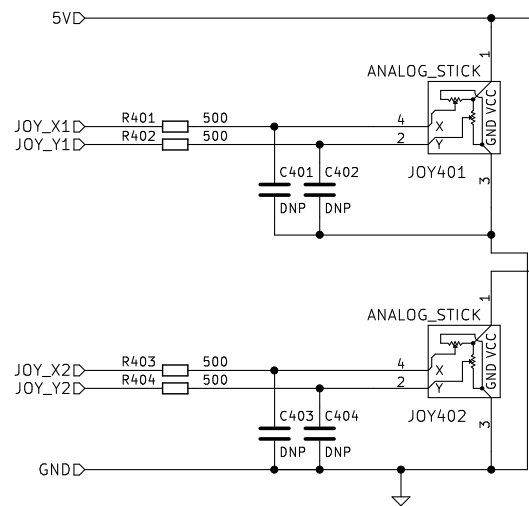
Size: A4 Date: 2017-10-10

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Rev: 0

Id: 3/7





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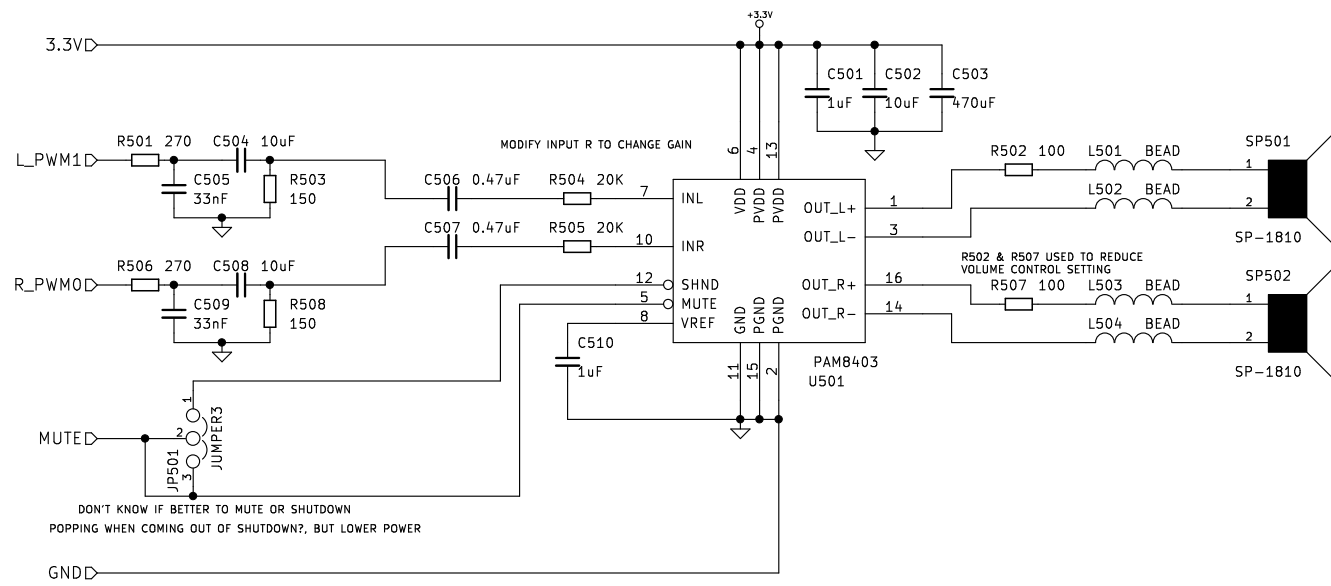
Sheet: /Joysticks/  
File: Joysticks.sch

**Title: ANALOG JOYSTICKS**

Size: A4 Date: 2017-10-10  
KiCad E.D.A. kicad 4.0.4-stable

**Rev: 0**  
Id: 4/7





PAM8403 EVALUATION BOARD USER GUIDES HAS MORE APPLICATION INFO:  
<https://www.diodes.com/diodes-part-files/KR/PAM8403/User%20Guides%20and%20EV%20Boards/PAM8403%20User%20Guide.pdf>

## Cerulean Submergence LLC

contact@ceruleansubmergence.com  
 ceruleansubmergence.com

Sheet: /Audio/  
 File: Audio.sch

**Title: STEREO AUDIO AMPLIFIER**

Size: USLetter Date: 2017-10-10

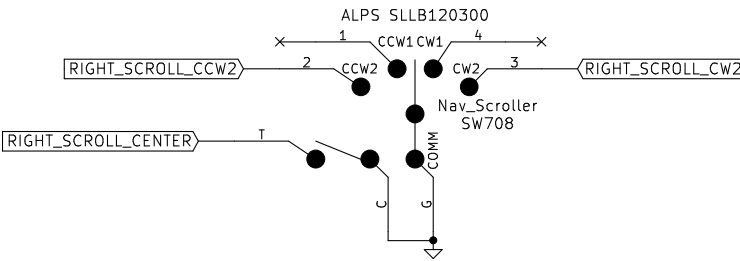
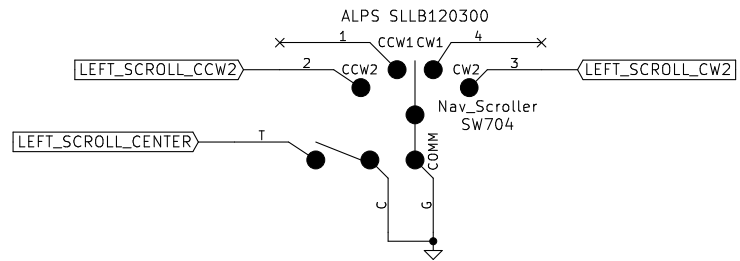
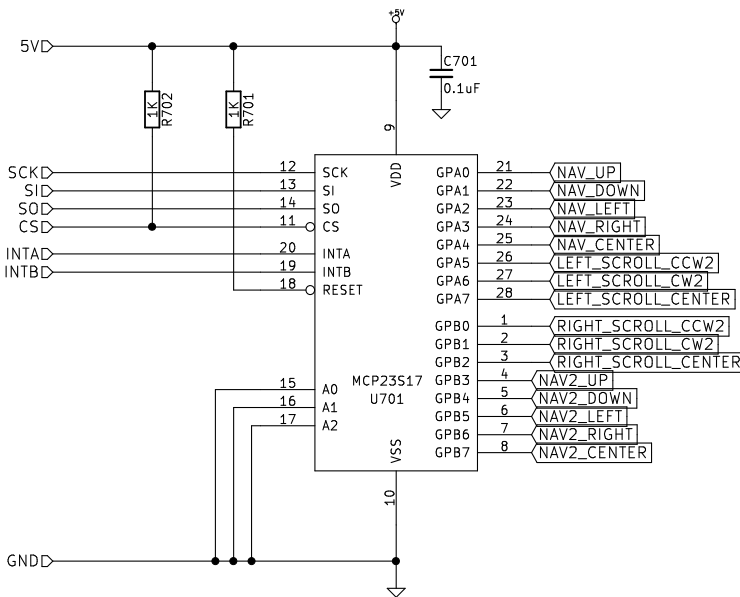
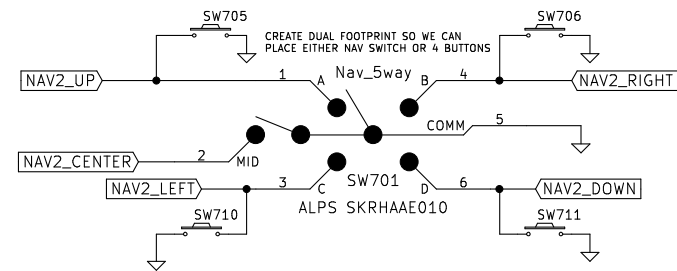
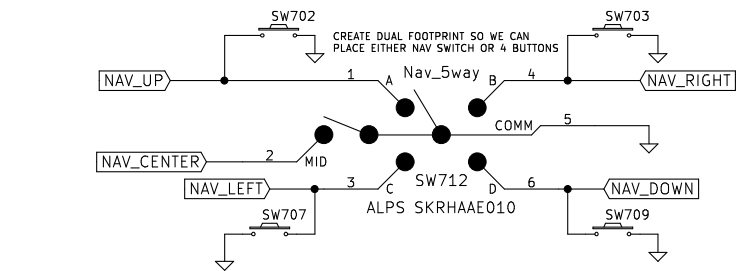
KiCad E.D.A. kicad 4.0.4-stable

Rev: 0

Id: 5/7







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ceruleansubmergence.com

Sheet: /Buttons/  
File: Buttons.sch

**Title: BUTTONS AND IO EXPANDER**

Size: A4      Date: 2017-10-10      **Rev: 0**  
KiCad E.D.A.    kicad 4.0.4-stable      Id: 7/7

