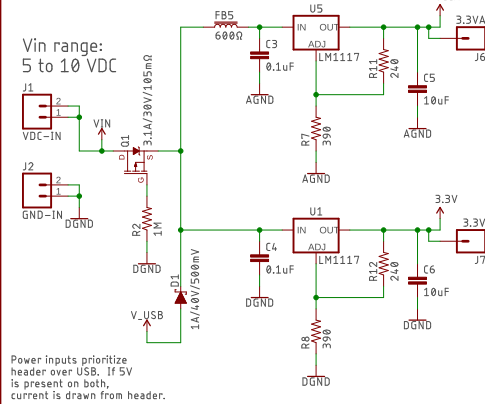
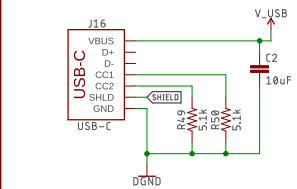


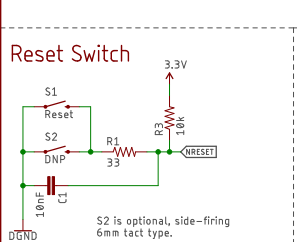
Power Regulators



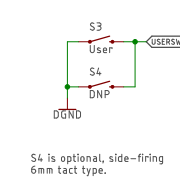
USB Device Port



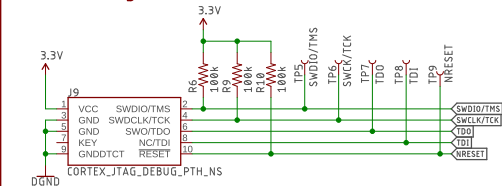
Scope Trigger



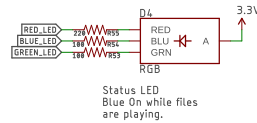
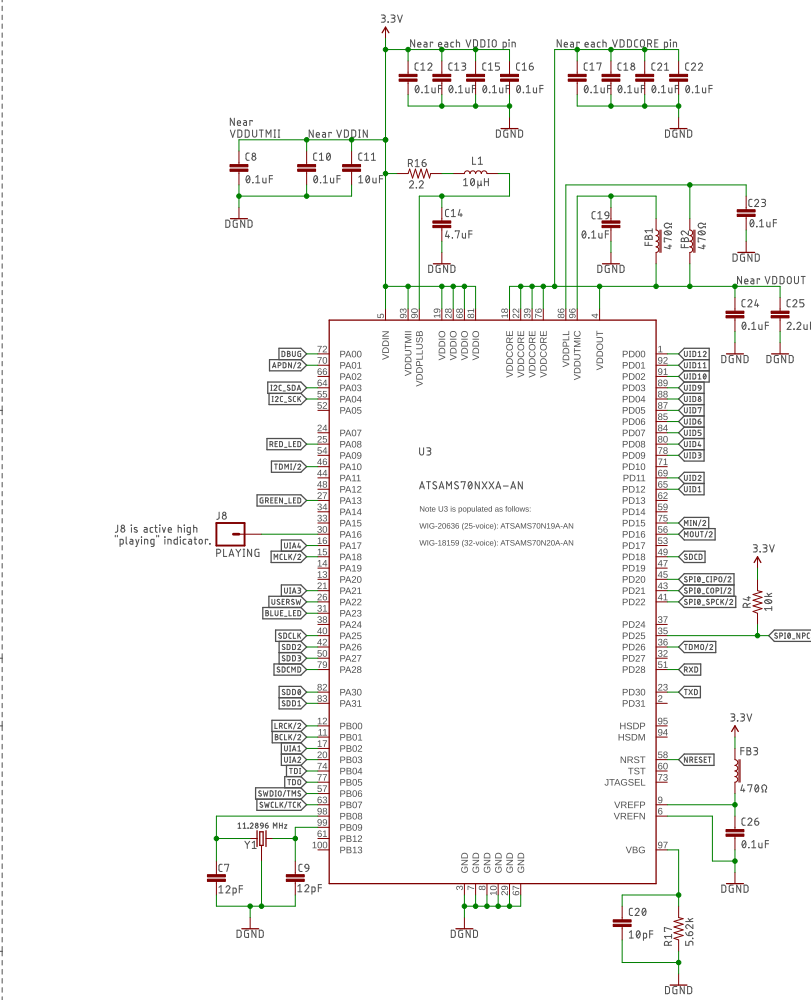
User Switch



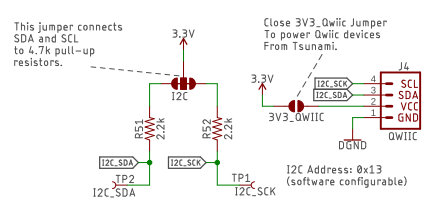
Cortex Debug Port



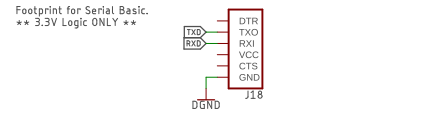
Cortex M7 Processor



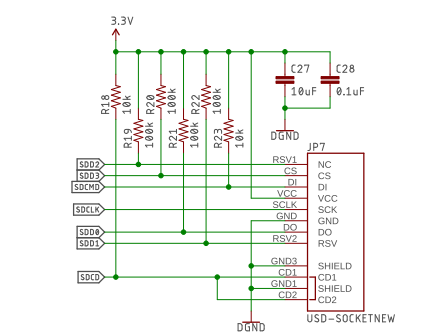
I2C Connector and Pullups



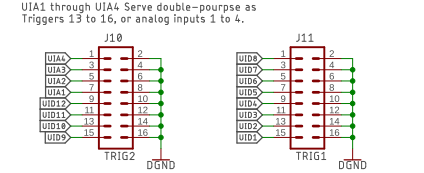
Host Serial Port Connection



SDIO uSD Card Slot



User Trigger Inputs



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TITLE: SparkFun_Tsunami_Qwiic

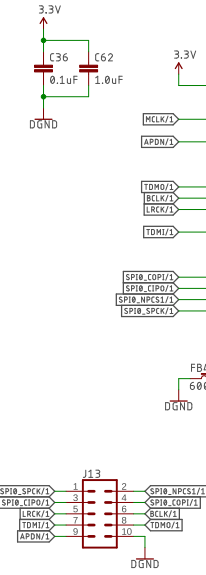
Design by: Jamie Robertson, Byron Jacquot
 Revision by: Jamie Robertson, Pete Lewis

Date: 10/31/2022 11:39 AM
 Sheet: 1/2



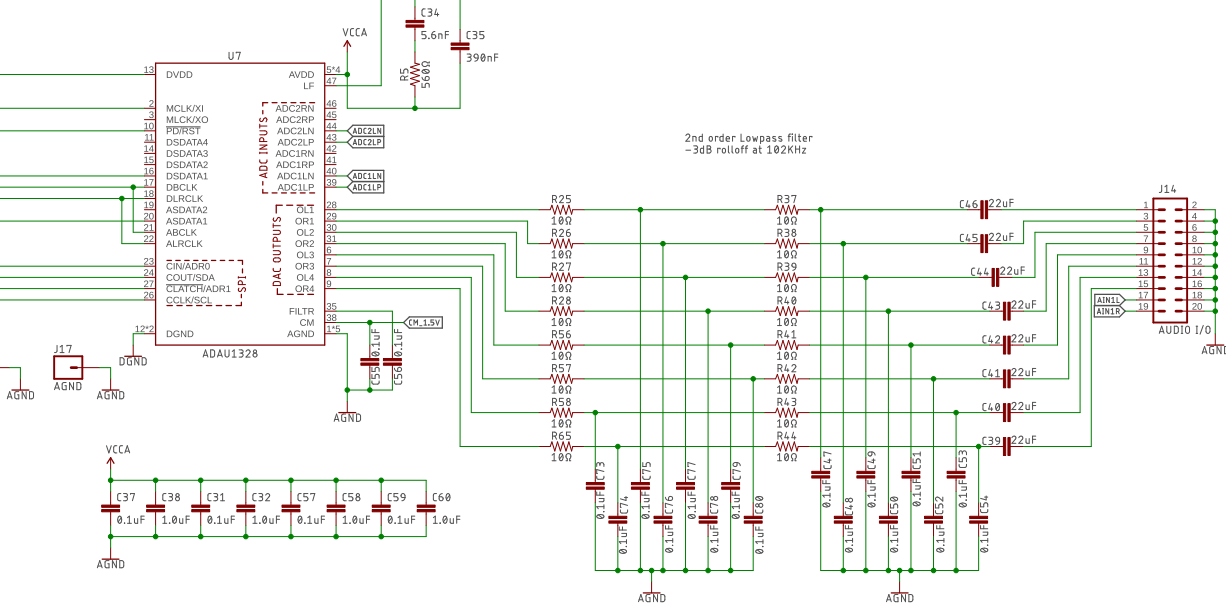
TDM Bus

Signals from processor



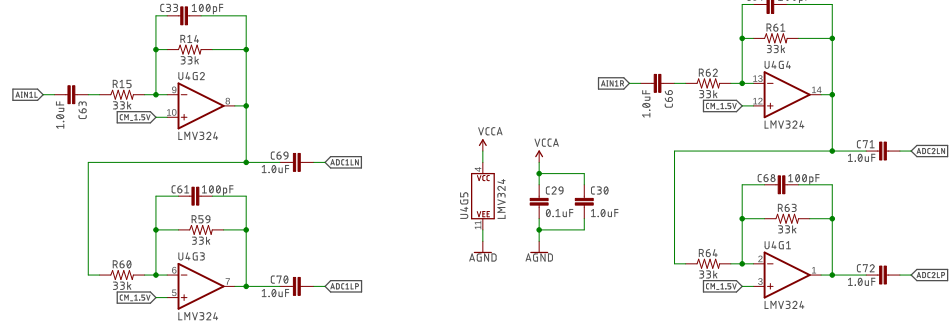
Audio Codec

Isolated analog ground plane with single connection to digital ground.
FB4 and FB5 are being used to formalize the plane crossing.

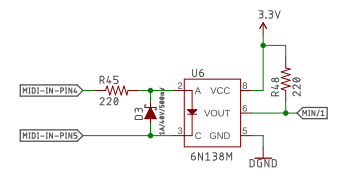


ADC Input Filters

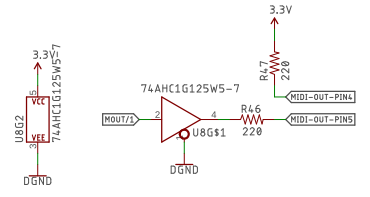
High Pass: 4.8Hz (33k/1.0uF)
Low Pass: 40.3kHz (33k/100pF)
Slew Rate: 1V/uS (1,000,000V/sec)
Max Freq (at 3.3V power):
slew rate (V/sec) = 2*pi*f*v
1,000,000 = 2*(3.14)*(3.3V)
f(max) = 48kHz



MIDI IN

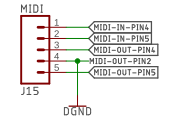


MIDI OUT



MIDI CONNECTOR

MIDI signals can be wired to standard 5-pin DIN connectors. Not all 5 pins are connected. Connect the pads below to the pins indicated.



MIDI inputs are not grounded. MIDI outputs are, with the shield of the cable tied to Pin 2 of the DIN.

DIN-5 connectors have an odd pin-ordering -- pin 2 is between 4 and 5, as reflected in the connector above.

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TITLE: SparkFun_Tsunami_Qwiic

Design by: Jamie Robertson & Byron Jacquot

REV: V21

Revision by: Jamie Robertson, Pete Lewis

Date: 10/31/2022 11:39 AM

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