

[illegible]

Mosfet + Speaker

C

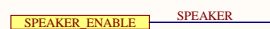
The diagram shows a MOSFET (Q3, IRF3205) used as a switch to drive a speaker (LS1). The gate of the MOSFET is controlled by a signal labeled 'SPEAKER_ENABLE'. The drain of the MOSFET is connected to a signal line labeled 'AB_OUT'. The source of the MOSFET is connected to ground through a resistor labeled 'R15' with a value of '10k'. The speaker (LS1) is connected between the drain of the MOSFET and ground.

D

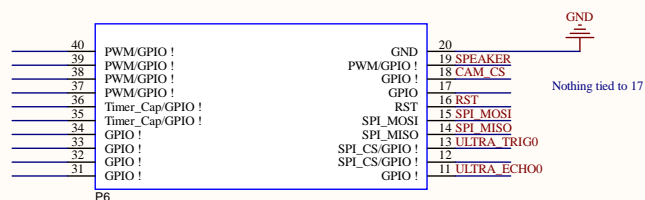
Need second mosfet to drive actual ab->speaker one with 5V for max current

[illegible]

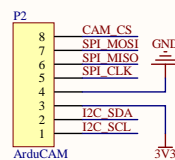
Title			
Size B	Number		Revision
Date:	9/24/2021	Sheet	of
File:	C:\Users\...\analog_SchDoc	Drawn By:	



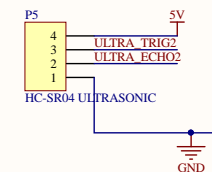
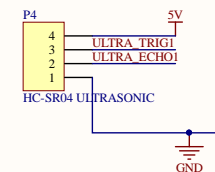
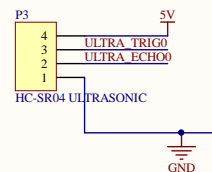
CC3235S LP



OFF BOARD INTERFACE

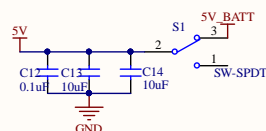


ASSUMING 5V ULTRASONIC



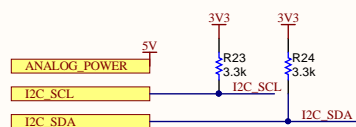
BATTERY SWITCH

ALLOWS US TO CONNECT BOTH LAUNCHPAD 5V AND BATTERIES AT SAME TIME

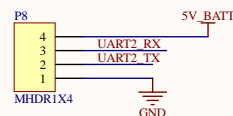


JUMPERS

PORTS

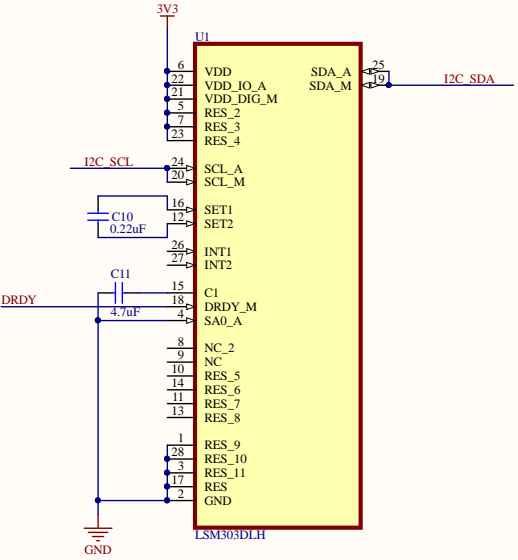
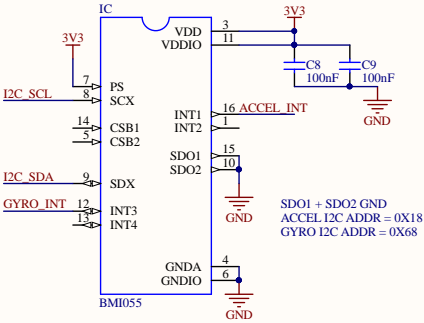
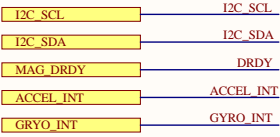


MOTOR/POWER BOARD CONNECT



Title			
Size B	Number		Revision
Date:	9/24/2021	Sheet	of
File:	C:\Users\jmcu_main\SchDoc	Drawn By:	

I2C SENSORS



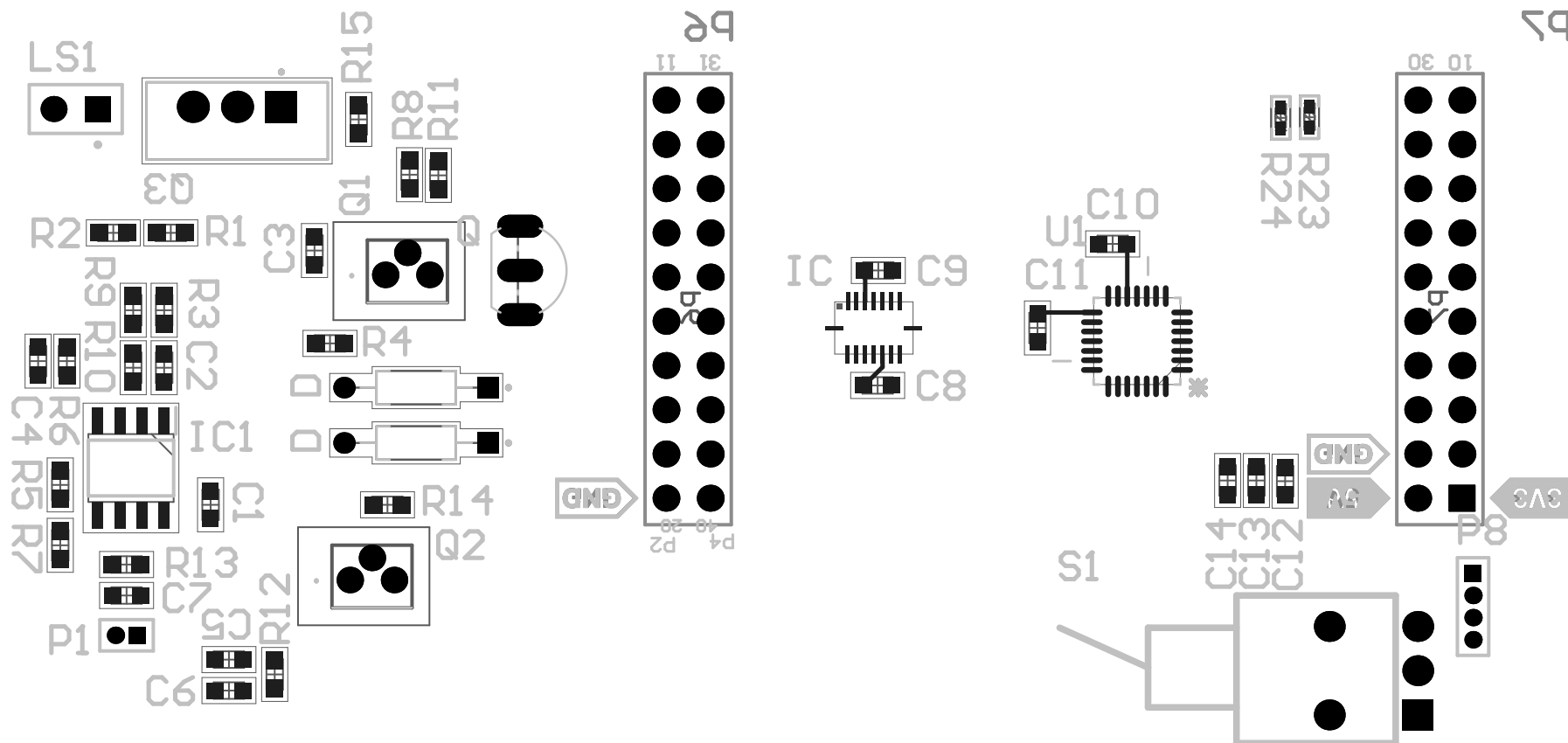
Title		
Size B	Number	Revision
Date: 9/24/2021	Sheet of	
File: C:\Users\...sensors\SchDoc	Drawn By:	

Diagram illustrating the layout of the 6U-IMU board components. The components are arranged in a grid-like pattern:

- Top Row:** P5 (left), P4 (center), P3 (right).
- Second Row:** R22 (left), R21 (center), R20 (right).
- Third Row:** R19 (left), R18 (center), R17 (right).
- Bottom Row:** P2 (center).

Labels and orientations:

- FRONT/IMU X** and **IMU Y** are indicated above the top row.
- TCS** is indicated below the bottom row.



Comment	Description	Designator	Footprint	LibRef	Quantity
Cap		C1, C2, C3, C4, C5, C	CAPC0603	Cap	14
1N4148	DIODE FAST SIGNAL	D	DIOAD829W49L456D	1N4148	2
BMI055	Accelerometer, Gyros	IC	QFN50P300X450X10	BMI055	1
LM2904AVQDR	Integrated Circuit	IC1	SOIC127P600X175-8	LM2904AVQDR	1
Speaker	Loudspeaker	LS1	PIN2	Speaker	1
MHDR1X2	Header, 2-Pin	P1	MHDR1X2	MHDR1X2	1
ArduCAM	Header, 8-Pin	P2	MHDR1X8	MHDR1X8	1
HC-SR04 ULTRASON	Header, 4-Pin	P3, P4, P5	MHDR1X4	MHDR1X4	3
SSQ-110-03-T-D	Receptacle, 2.54mm,	P6	BoosterPack_40pin_J	CMP-0078266-2	1
SSQ-110-03-T-D	Receptacle, 2.54mm,	P7	BoosterPack_40pin_J	CMP-0003837-2	1
MHDR1X4	Header, 4-Pin	P8	MHDR1X4	MHDR1X4	1
2N2907*	Bipolar _BJT_ Transist	Q	TO92-EBC-OVAL	2N2907*	1
2N2222A	Transistor BJT NPN	Q1, Q2	2N2222A	2N2222A	2
IRF3205	N-Channel 55V 110A	Q3	TO254P1041X444X29	IRF3205	1
Res		R1, R2, R3, R4, R5, R	RES0603	Res	15
CRCW04023K30JNED	RES, 3.3 k, 5%, 0.063	R23, R24	0402	CMP-0026918-5	2
SW-SPDT	SPDT Subminiature T	S1	SW DPST Jameco	SW-SPDT	1
LSM303DLH	Accelerometer, Magn	U1	LGA28R55P7X7_500	LSM303DLH	1