

Wien Oscillator

VCC

R7 10k

VGND

R7 10k

virtual ground needed to bias input

GND

R7 75

C7 1uF

Wien1

IC? LM2904AVQDR

OUT1

IN1-

IN1+

V+

V-

VCC

8

7

6

5

WIEN_BUFFER

Wien1

R7 10k

R7 1k

GND

VGND

R7 75

C7 1uF

R7 47k

R7 100k

GND

WIEN_BUFFER

R7 10

WIEN_FILT

C7 10uF

GND

P2

1

2

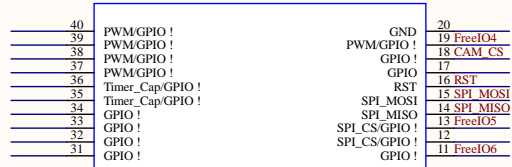
MHDR1 X2

GNDDebug Header

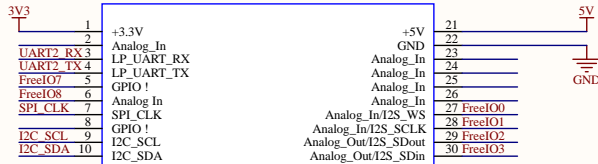
Mosfet + Speaker

Title			
Size B	Number		Revision
Date:	9/17/2021	Sheet	of
File:	C:\Users\...\analog_SchDoc	Drawn By:	

CC3235S LP

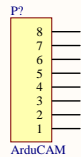


P?



P?

OFF BOARD INTERFACE



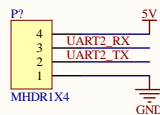
ArduCAM

needs 2 IO



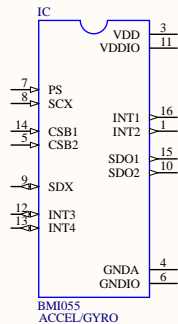
HC-SR04 ULTRASONIC

MOTOR/POWER BOARD CONNECT

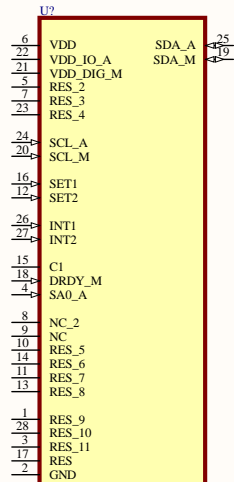


MHDRIX4

I2C SENSORS

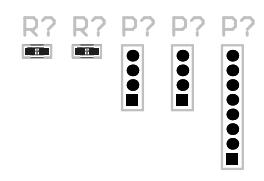
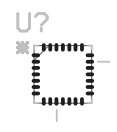
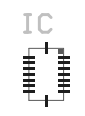
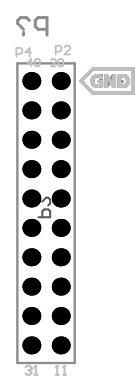
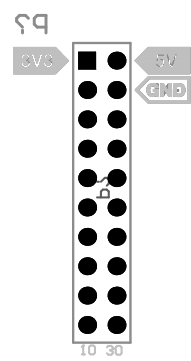


BMI065
ACCEL/GYRO



LSM303DLH
MAGNETOMETER

Title		
Size	Number	Revision
B		
Date:	9/17/2021	Sheet of
File:	C:\Users\jmcu_main\SchDoc	Drawn By:



Comment	Description	Designator	Footprint	LibRef	Quantity
Cap		C?	CAPC0603	Cap	6
1N4148	DIODE FAST SIGNAL	D	DIOAD829W49L456D	1N4148	2
BMI055	Accelerometer, Gyros	IC	QFN50P300X450X10	BMI055	1
LM2904AVQDR	Integrated Circuit	IC?	SOIC127P600X175-8	LM2904AVQDR	1
Speaker	Loudspeaker	LS?	PIN2	Speaker	1
ArduCAM	Header, 8-Pin	P?	MHDR1X8	MHDR1X8	1
HC-SR04 ULTRASON	Header, 4-Pin	P?	MHDR1X4	MHDR1X4	1
MHDR1X2	Header, 2-Pin	P?	MHDR1X2	MHDR1X2	1
MHDR1X4	Header, 4-Pin	P?	MHDR1X4	MHDR1X4	1
SSQ-110-03-T-D	Receptacle, 2.54mm,	P?	BoosterPack_40pin_J	CMP-0003837-2	1
SSQ-110-03-T-D	Receptacle, 2.54mm,	P?	BoosterPack_40pin_J	CMP-0078266-2	1
2N2907*	Bipolar _BJT_ Transist	Q	TO92-EBC-OVAL	2N2907*	1
2N2222A	Transistor BJT NPN	Q?	2N2222A	2N2222A	2
IRF3205	N-Channel 55V 110A	Q?	TO254P1041X444X29	IRF3205	1
CRCW04023K30JNED	RES, 3.3 k, 5%, 0.063	R?	0402	CMP-0026918-5	2
Res		R?	RES0603	Res	15
LSM303DLH	Accelerometer, Magn	U?	LGA28R55P7X7_500	LSM303DLH	1