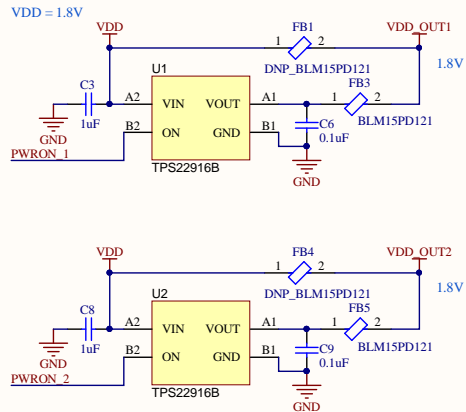


	1	2	3	4	5	6	7	8
A			U_Sensors Sensors.SchDoc	U_Connectors Connectors.SchDoc				
B								
C								
D								
	1	2	3	4	5	6	7	8

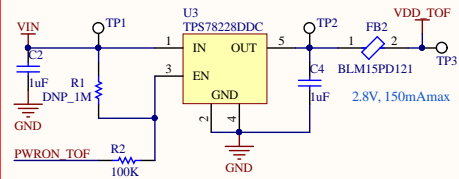
Title			
MANUCA AIR - SENSOR MODULE			
Size	Number		Revision
A3			A
Date:	15/4/2020		Sheet 1 of 3
File:	C:\Proj\...\Sensor_Module_RevA.SchDoc		Drawn By: Petrus

Load Switches



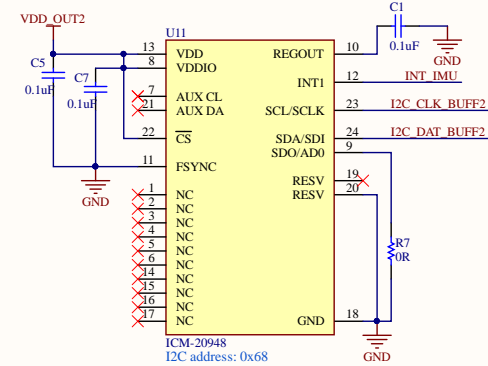
Take care of I2C bus leakage current through the ESD diodes when the main power to the IC is cut off.

LDO

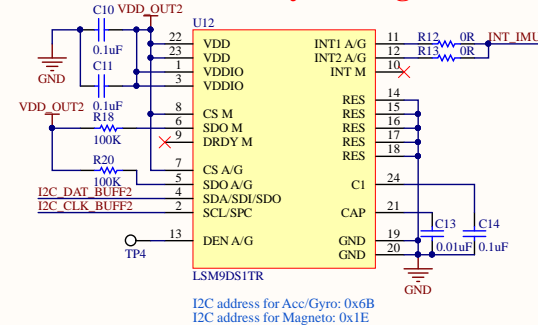


GROUP-2 SENSORS

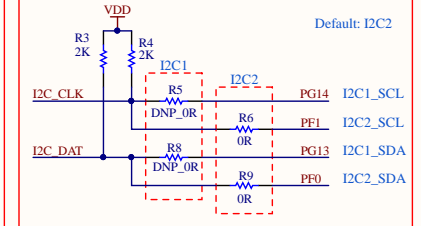
Accel+Gyro+Magneto



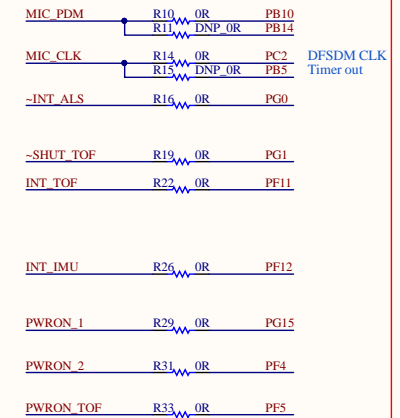
Accel+Gyro+Magneto



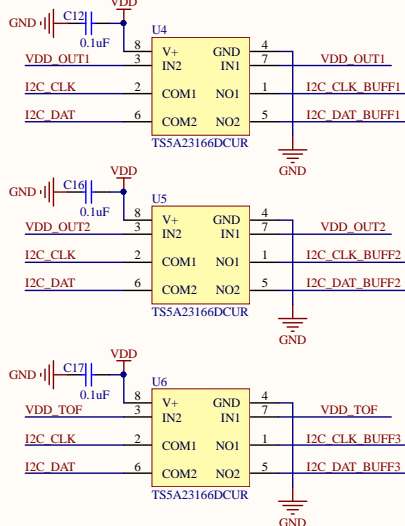
I2C PULL-UP



SIGNAL MAPPING



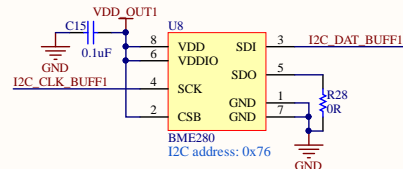
I2C Bus Switch



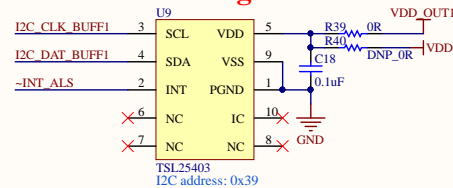
For power saving apps: DNP

GROUP-1 SENSORS

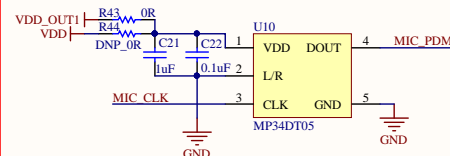
Environment Sensor



Ambient Light Sensor

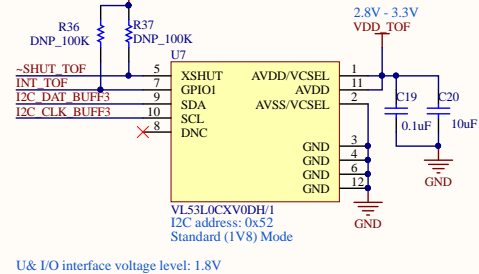


PDM Microphone



GROUP-3 SENSOR

TOF Sensor



MANUCA AIR SENSOR MODULE/BOARD IS DESIGNED TO BE PLUGGED ONTO THE TOP SIDE OF THE MANUCA AIR COMPUTE MODULE/BOARD

Title			MANUCA AIR - SENSOR MODULE
Size	Number	Revision	
A3		A	
Date:	15/4/2020	Sheet 2 of 3	
File:	C:\Proj\...Sensors.SchDoc	Drawn By:	Petrus

A

B

C

D

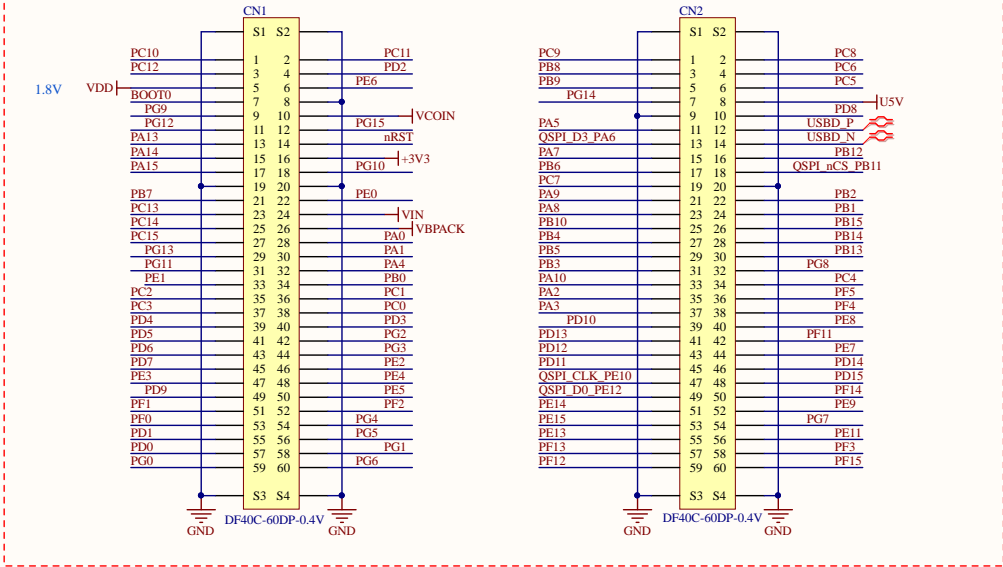
A

B

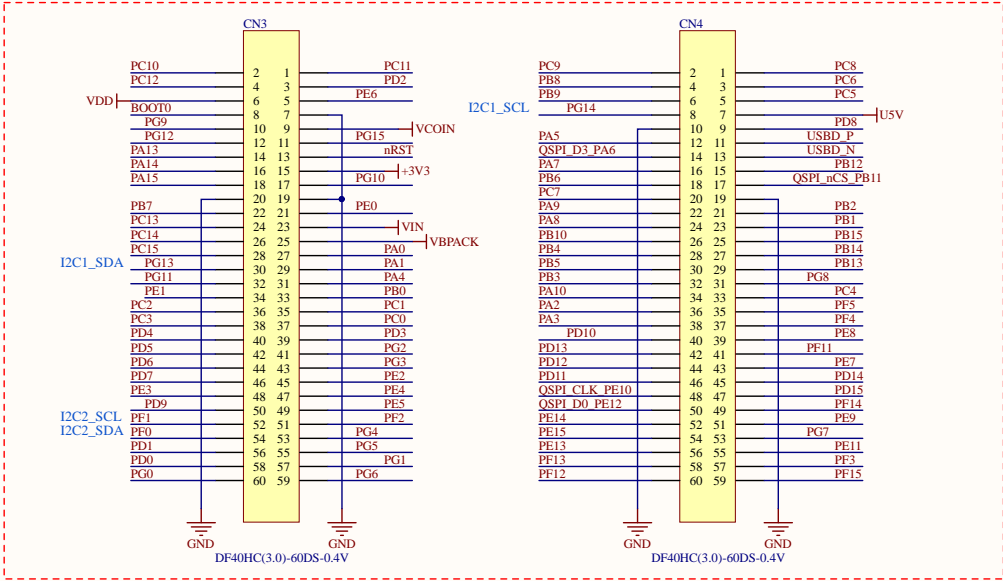
C

D

Top Side EXTENSION Connectors



Bottom Side MATING Connectors (3mm stacking Height)



Title		
MANUCA AIR - SENSOR MODULE		
Size	Number	Revision
A3		A
Date:	15/4/2020	Sheet 3 of 3
File:	C:\Proj\...Connectors.SchDoc	Drawn By: Petrus