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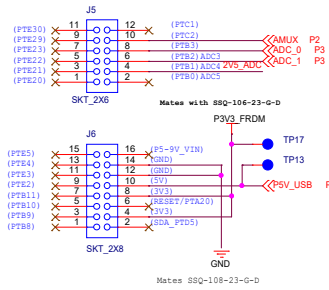
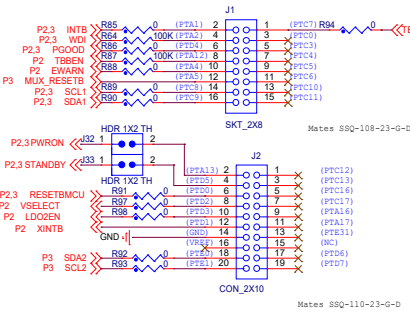
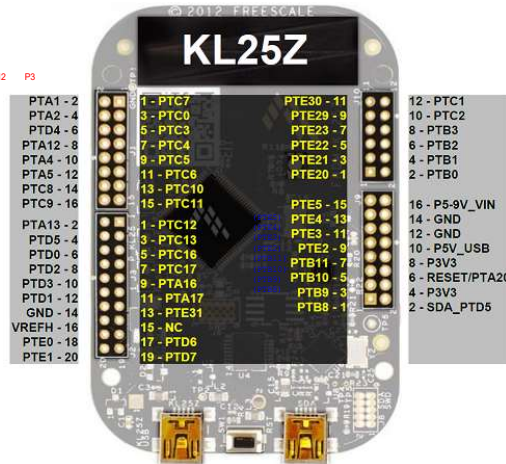
Revisions

Rev	Description	Date	Approved
A	Initial schematic (Derivative from SCH-29723)	11-JUN-18	J. Romo
B	Replace R95 with a 2.2Mohm Resistor Mark R49, R55, R63, R62 as DNP Replace 4.7uF capacitor C45, C49, C55, C58, C57, C51, C46 (from 150-79693 to 150-79698) Replace red LED D2 from 370-76647 to 370-76617	1-JUL-19	Joaquin Romo

KITPF8101FRDMEVM

		Analog Sensor Product Group 6501 William Cannon Drive West Austin, TX 78735-8568	
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Drawn by: Romo J.	Page Title: TITLE		
Approved: Sakui Y.	Size C	Document Number SCH-32206 PDF: SFF-32206	Rev B
Date: Monday, July 01, 2019		Sheet 1 of 3	

KL25Z INTERFACE



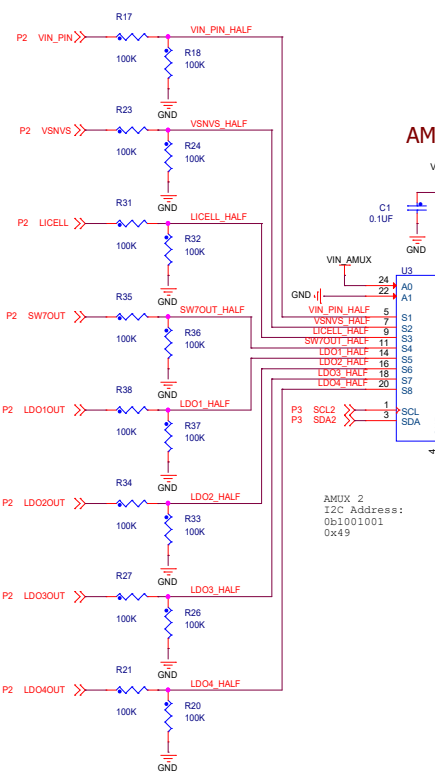
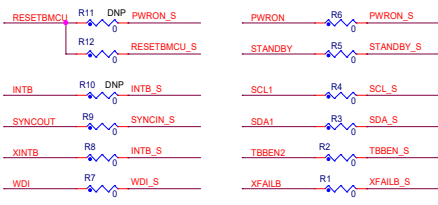
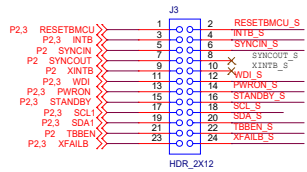
VOLTAGE SENSE

RAIL	VOLTAGE RANGE	AMUX/CHANNEL
SW1	0.4V to 1.8V, 2500mA	AMUX 1/CH 1
SW2	0.4V to 1.8V, 2500mA	AMUX 1/CH 2
SW3	0.4V to 1.8V, 2500mA	AMUX 1/CH 3
SW4	0.4V to 1.8V, 2500mA	AMUX 1/CH 4
SW5	0.4V to 1.8V, 2500mA	AMUX 1/CH 5
SW6	0.4V to 1.8V, 2500mA	AMUX 1/CH 6
RESERVED		AMUX 1/CH 7
RESERVED		AMUX 1/CH 8
VIN	2.7V to 5.5V	AMUX 2/CH 1
VSNVS	1.8V, 3.0V, 3.3V, 10mA	AMUX 2/CH 2
LICELL	1.8V, 3.0V, 3.3V, 10mA	AMUX 2/CH 3
SW7	1.2V to 4.5V, 2500mA	AMUX 2/CH 4
LDO1	1.5V to 5V, 400mA	AMUX 2/CH 5
LDO2	1.5V to 5V, 400mA	AMUX 2/CH 6
LDO3	1.5V to 5V, 400mA	AMUX 2/CH 7
LDO4	1.5V to 5V, 400mA	AMUX 2/CH 8

Populate the following connectors on the Freedom board (female with long pins, low insertion):
 SSQ-106-23-G-D / 210-80515
 SSQ-110-23-G-D / 210-80513
 SSQ-108-23-G-D (x2) / 210-80247

Master/Slave Connector

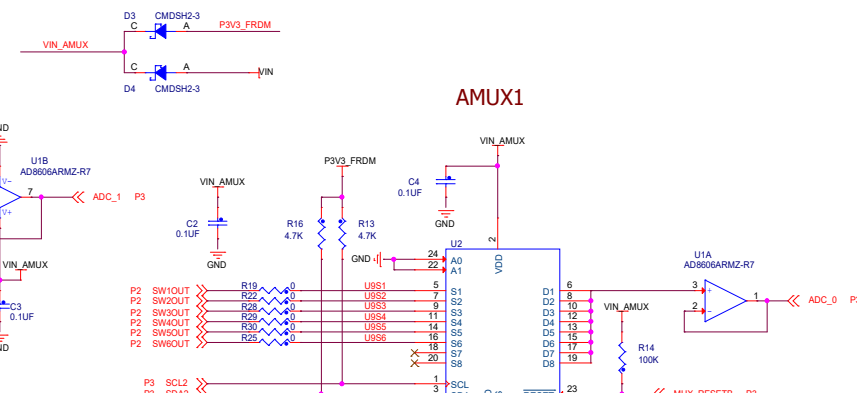
NOTE: Use single 12 Row connector to connect Slave side from primary EVB to Master side of 2nd EVB. Resistors can be configured on primary board for specific configurations.



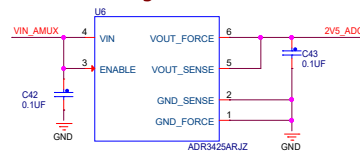
AMUX 2
 I2C Address:
 0b1001001
 0x49

SECONDARY AMUX

NOTE: Secondary AMUX is intended for Software purposes. GUI can use this to enable live monitoring instead of using AMUX on PFB100/8200. AMUX uses the best of supply from P3V3 Freedom supply and VIN.



2.5V Voltage reference



1/2 voltage divider to accommodate 3.3V Full scale ADC



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