



MG24 Dev Kit

Board Function

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Revision History

Rev. Description

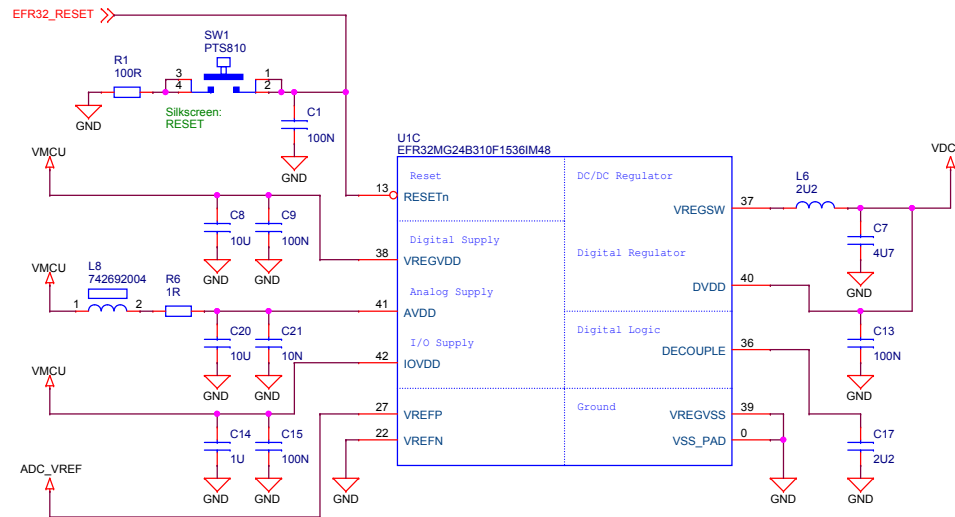
A00 Initial version.

A01 U1 with new factory calibrations.

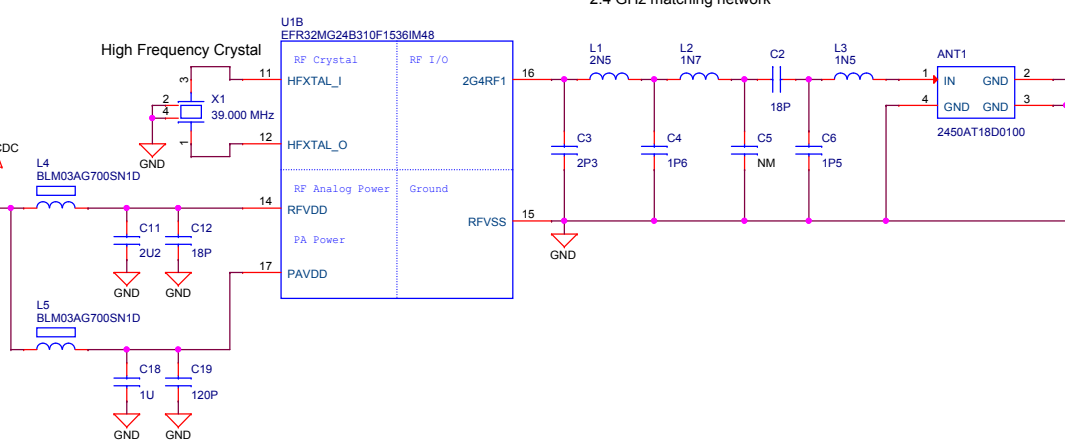
A02 Updated U1 OPN.

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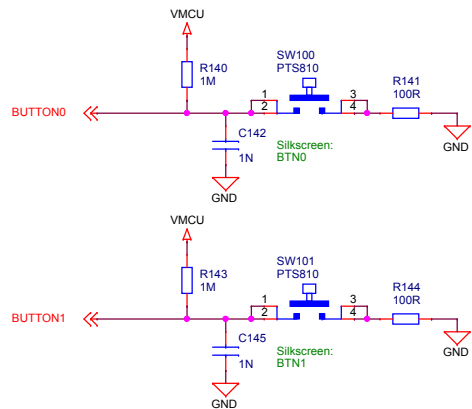
EFR32MG24 Power Section



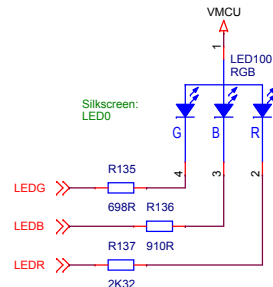
EFR32MG24 RF Section



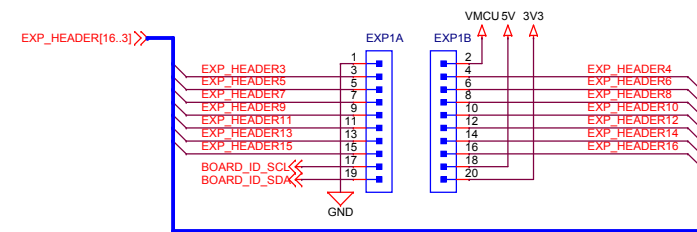
Push Buttons



RGB LED



Breakout Pads - EXP Header



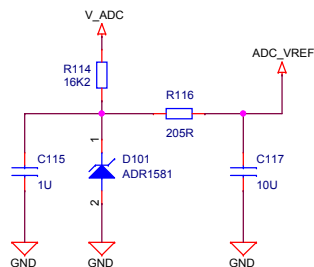
EXP Header Functionality

2	VMCU	
4	PC03	SPI_COPI
6	PC02	SPI_CIP0
8	PC01	SPI_SCK
10	PA07	SPI_CS
12	PA05	UART_TX
14	PA06	UART_RX
16	PC05	I2C_SDA
18	5V	
20	3V3	

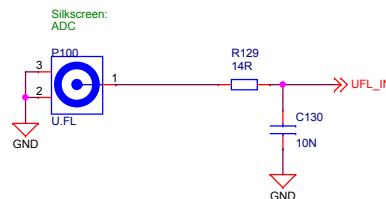
1	GND	
3	PB02	GPIO
5	AIN3	ADC_INN
7	AIN2	ADC_INP
9	PB00	GPIO
11	PB03	GPIO
13	PD02	GPIO
15	PC04	I2C_SCL
17	Reserved for EXP Board Identification	
19	Reserved for EXP Board Identification	

All signals routed to the EXP header are used on the board as well. Take care to avoid signal conflicts (see page 2 for signal assignments).

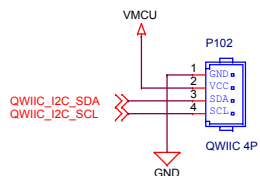
ADC VREF




U.FL ADC Connector

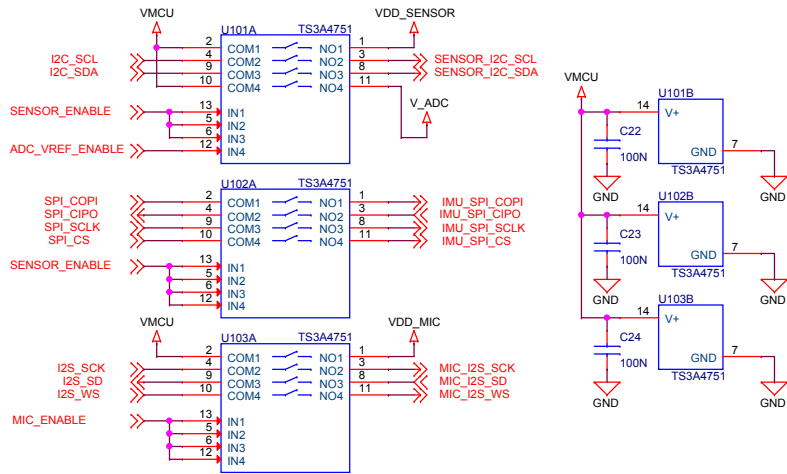


Qwiic Connector



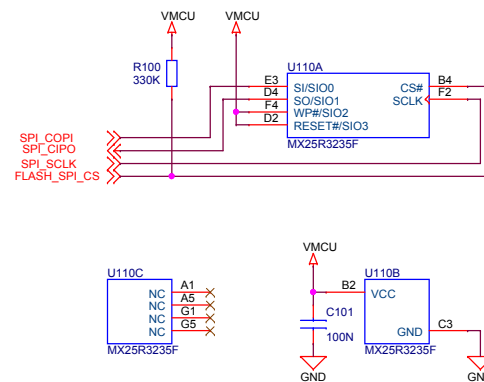
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Sensor Power/Isolation

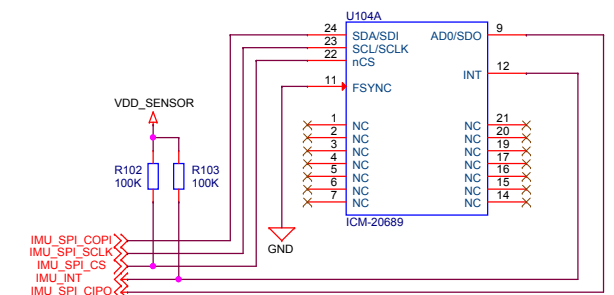


There are no pull-down resistors on the enable pins, and software should therefore immediately drive the lines to prevent the pins from floating.

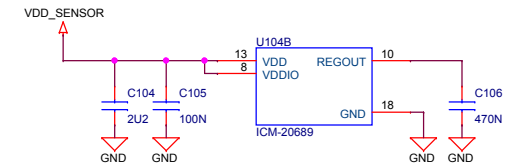
SPI Flash



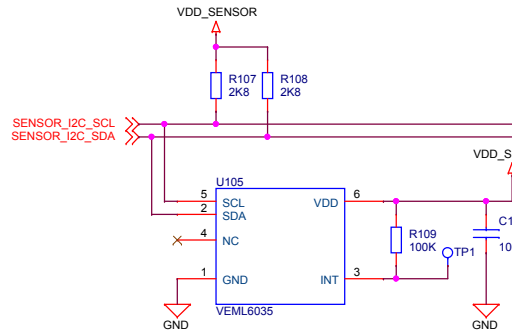
6-axis Inertial Sensor (IMU)



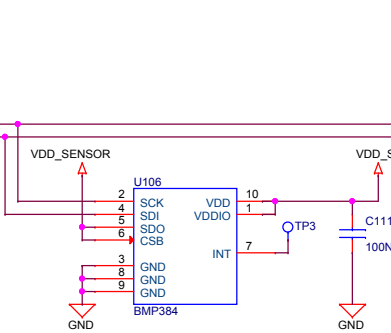
The SPI bus is shared with the flash.



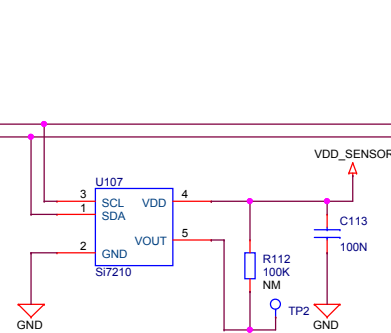
Ambient Light Sensor



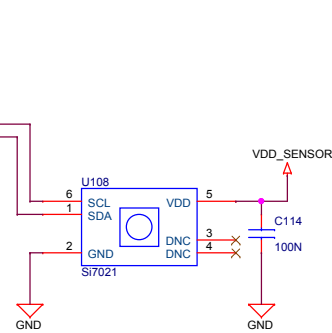
Pressure Sensor



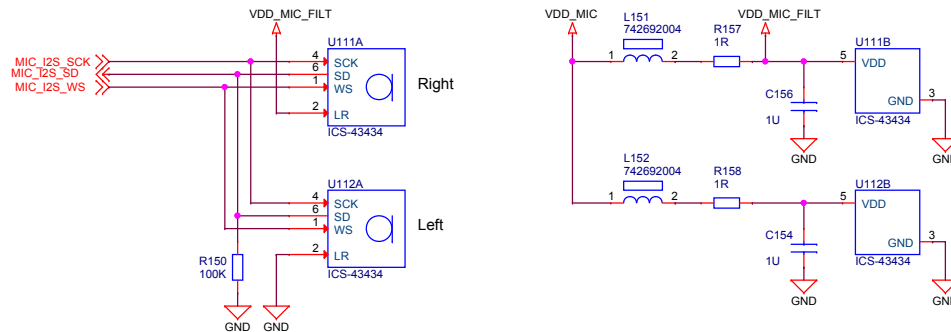
Hall-effect Sensor



RH/Temp Sensor



Stereo Microphones



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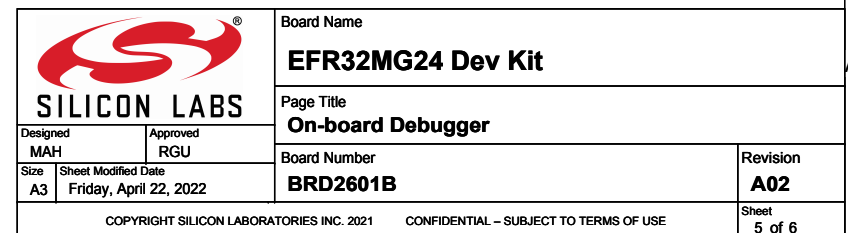
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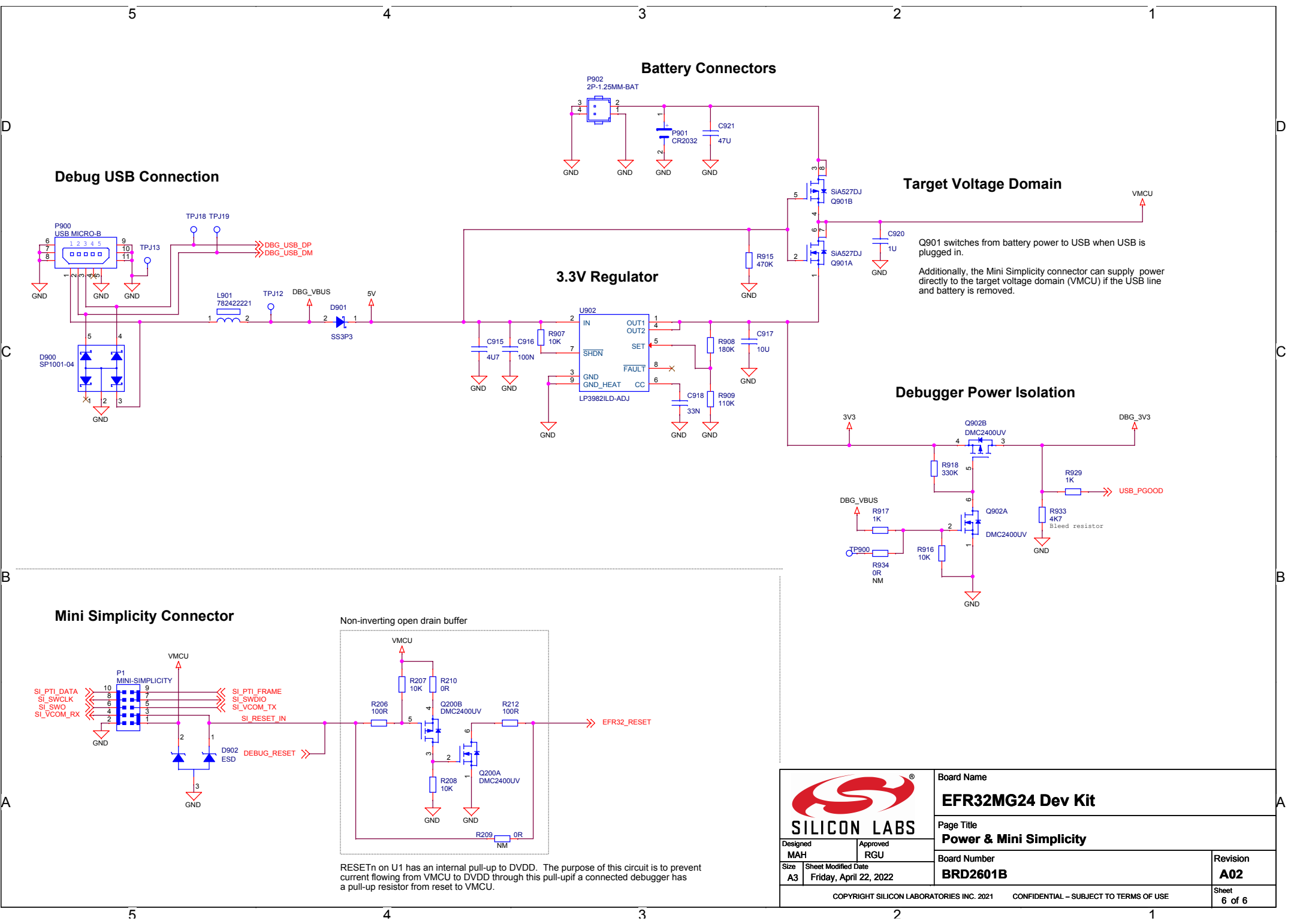


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