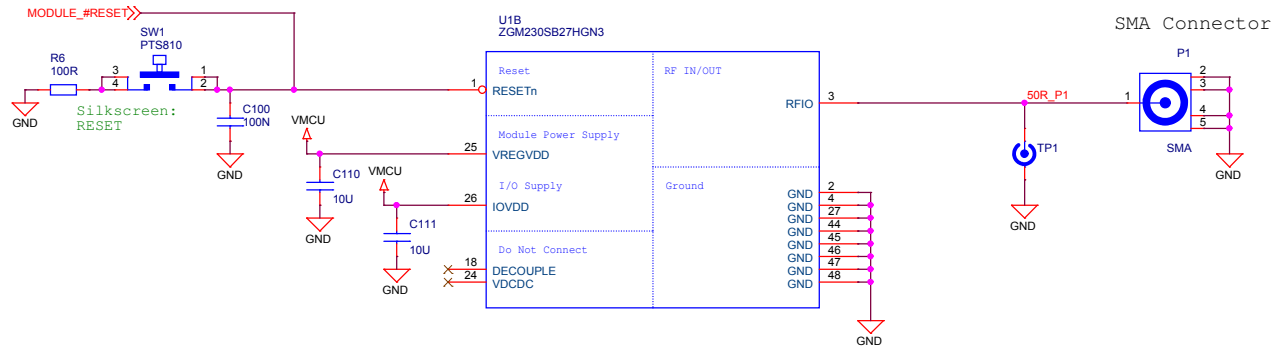
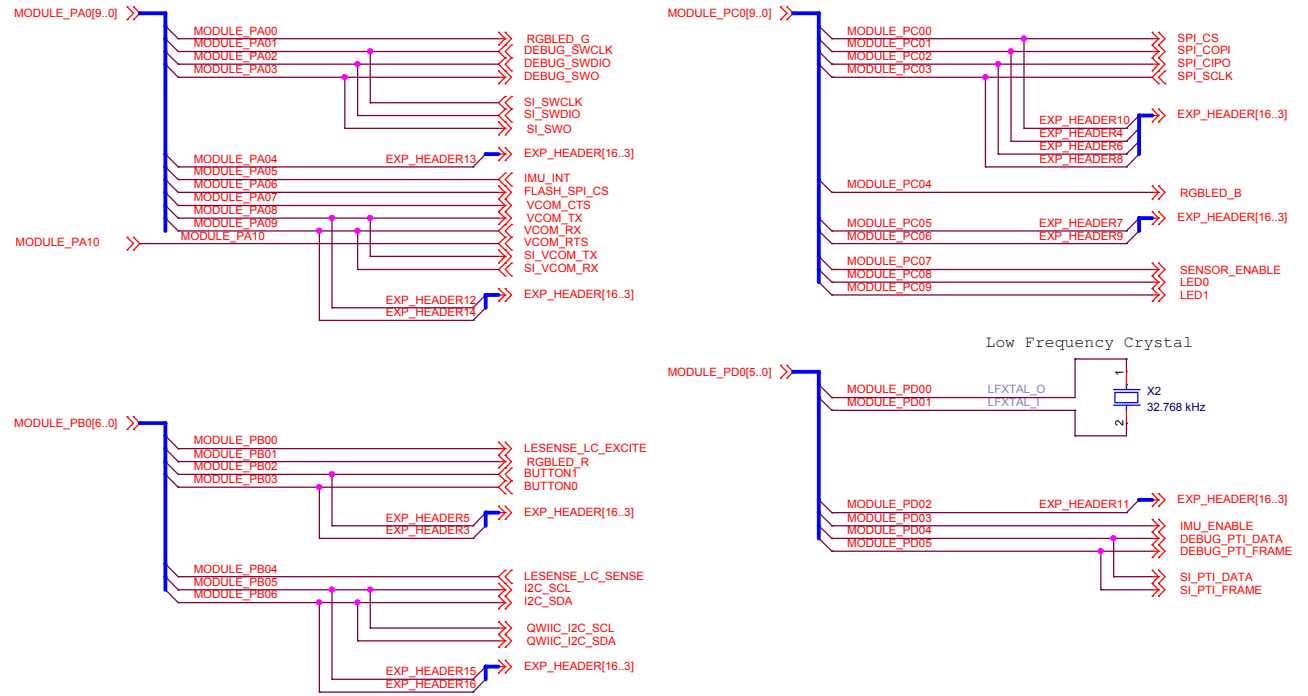
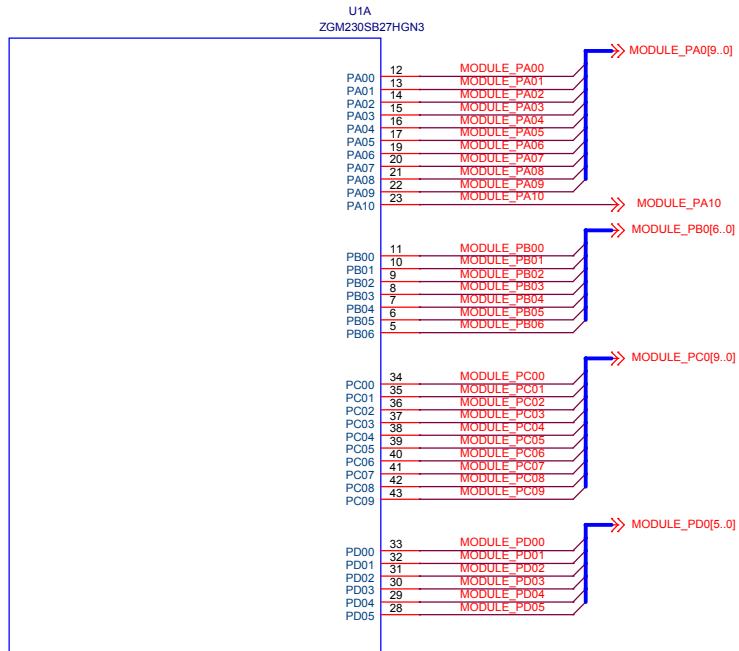


Power & Antenna & Radio Interface



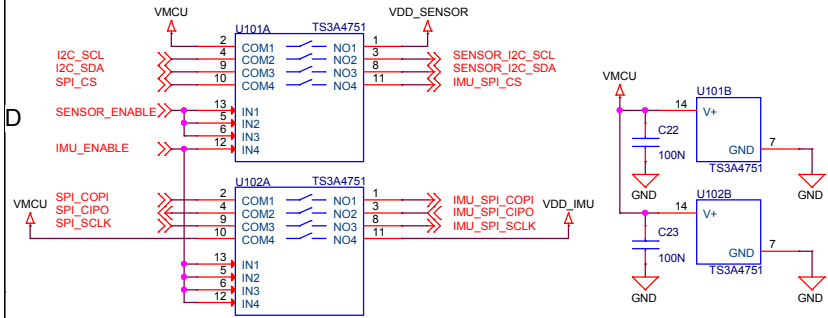
ZGM230S I/O & Signal Assignments

I/O Port Pins



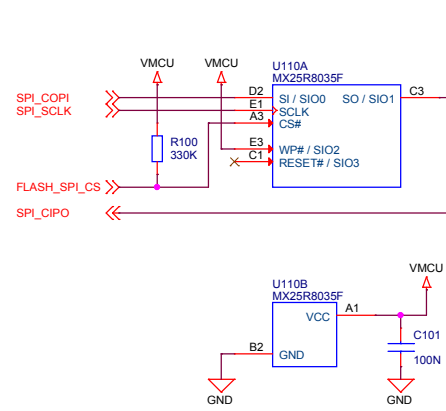
 SILICON LABS		Board Name	
		ZGM230SB Dev Kit	
Designed PEP		Approved RGU	
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Board Number		Sheet	
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Sensor Power/Isolation

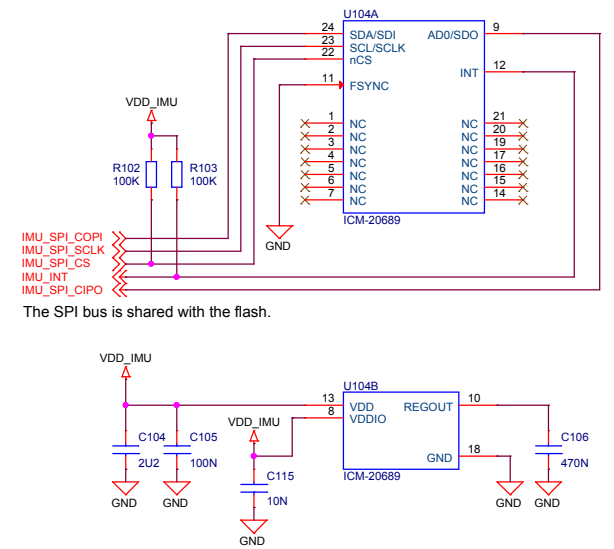


There are no pull-down resistors on the enable pins, and software should therefore immediately drive the lines to prevent the pins from floating.

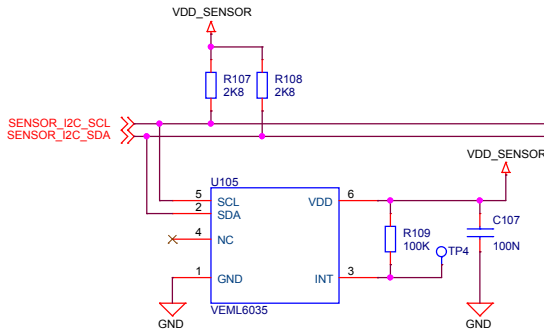
SPI Flash



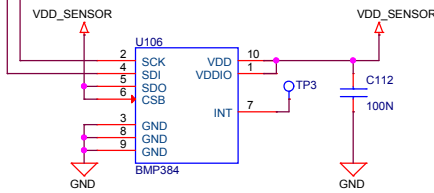
6-axis Inertial Sensor (IMU)



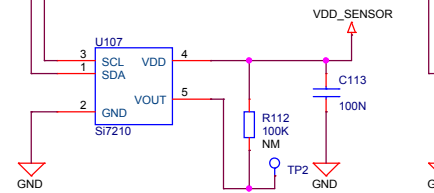
Ambient Light Sensor



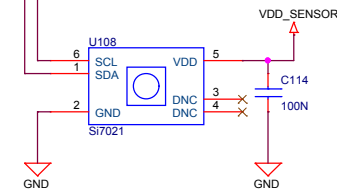
Pressure Sensor



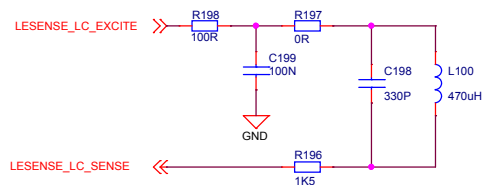
Hall-effect Sensor



RH/Temp Sensor

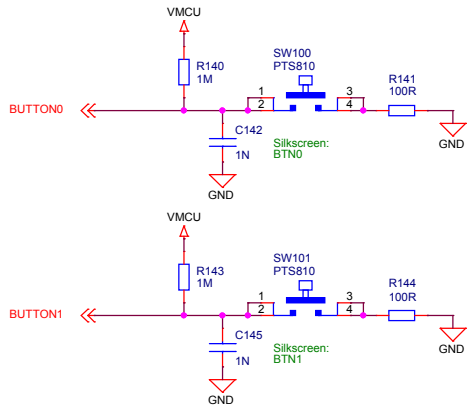


LESENSE LC-Sensor

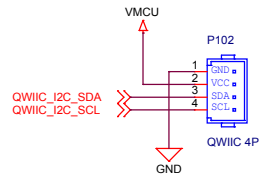


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		ZGM230SB Dev Kit	
Designed PEP		Page Title	
		Sensors & Peripherals	
Size A3		Board Number BRD2603A	Revision A01
Sheet Modified Date Wednesday, May 11, 2022		Approved RGU	
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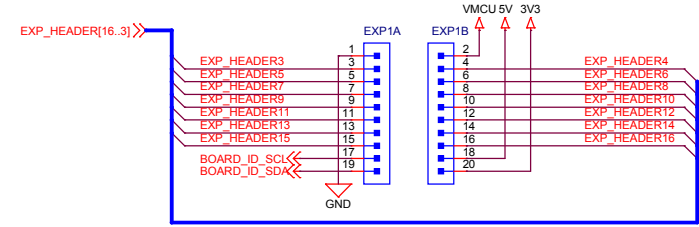
Push Buttons



Qwiic Connector



Breakout Pads - EXP Header

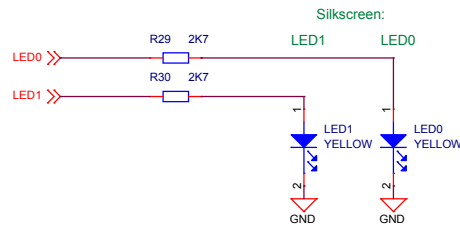
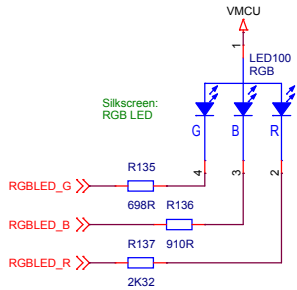


EXP Header Functionality

2	VMCU
4	PC01 SPI_COPI
6	PC02 SPI_CIPO
8	PC03 SPI_SCK
10	PC00 SPI_CS
12	PA08 UART_TX
14	PA09 UART_RX
16	PB06 I2C_SDA
18	5V
20	3V3

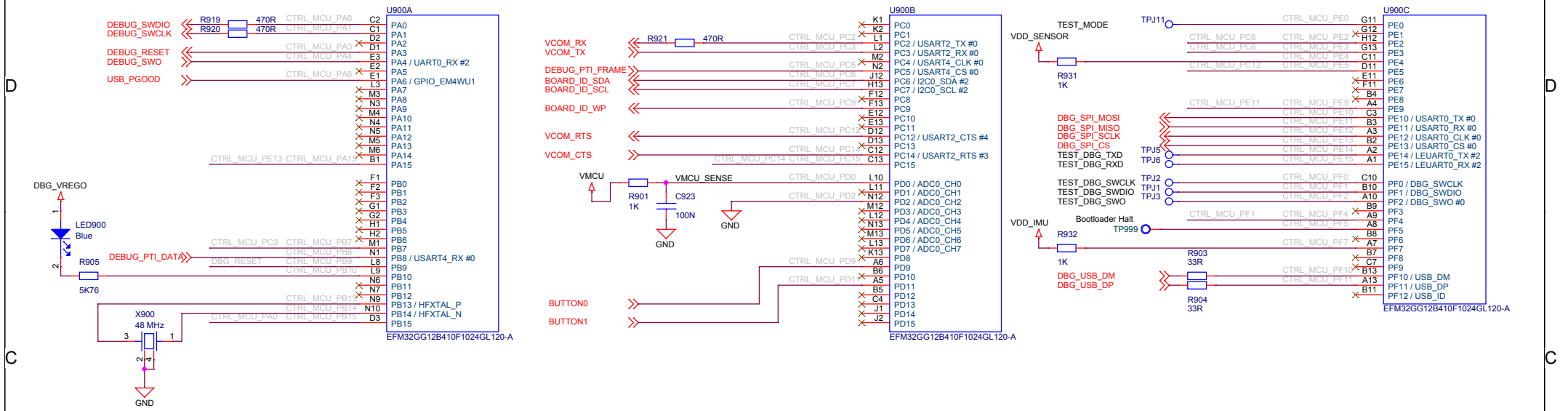
1	GND
3	PB03 GPIO (BUTTON0)
5	PB02 GPIO (BUTTON1)
7	PC05 GPIO
9	PC06 GPIO
11	PD02 GPIO
13	PA04 GPIO
15	PB05 I2C_SCL
17	Reserved for EXP Board Identification
19	Reserved for EXP Board Identification

LEDs

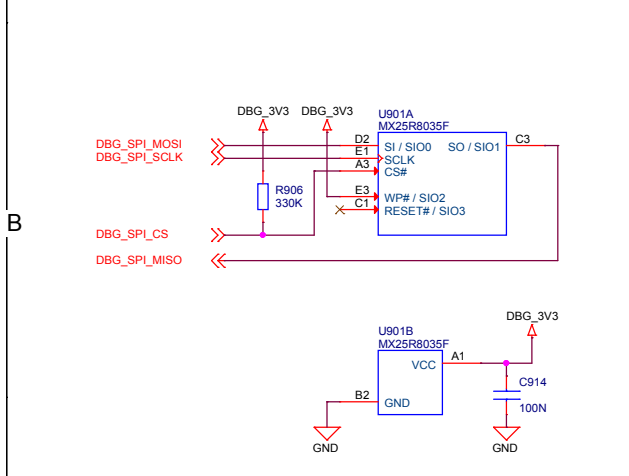


<p>SILICON LABS</p>	Board Name		ZGM230SB Dev Kit
	Page Title		User Interface
Designed PEP	Approved RGU		Revision A01
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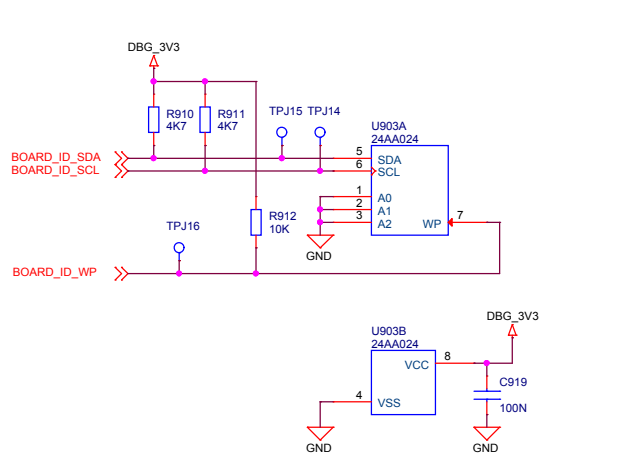
On-board Debugger



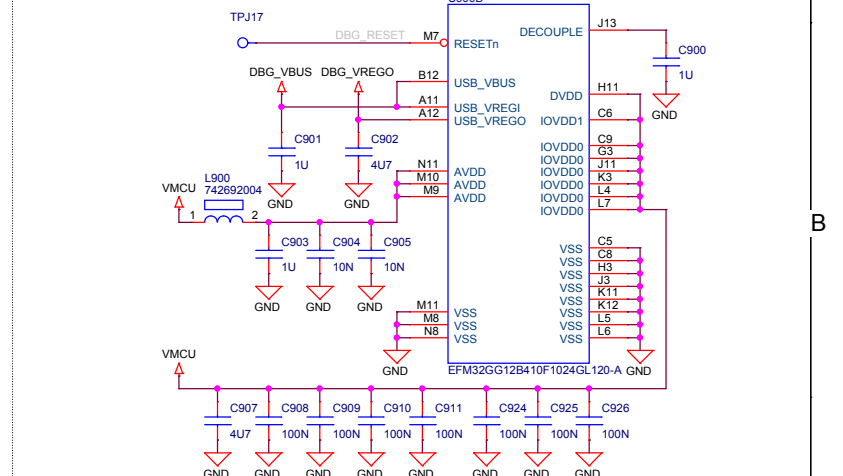
Serial Flash



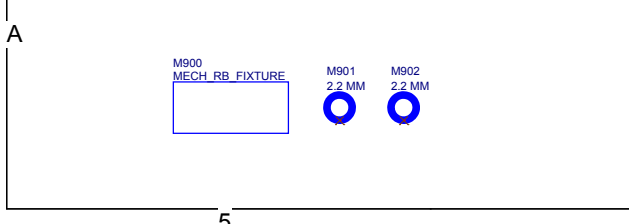
Board ID



Power & Decoupling

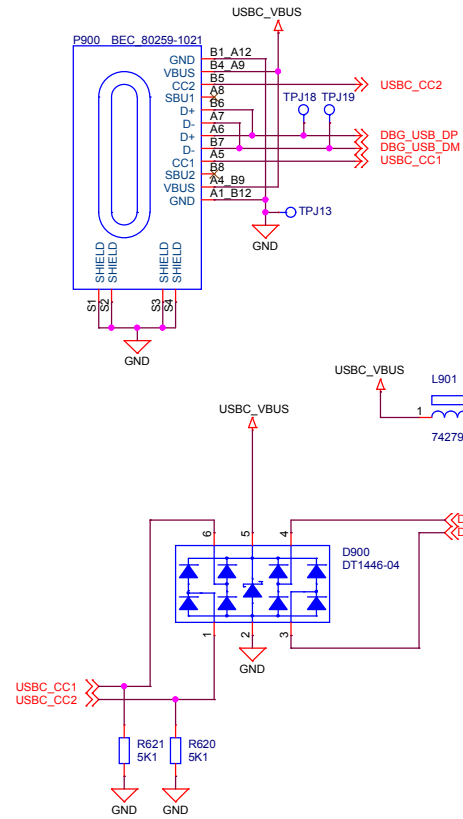


Mechanical

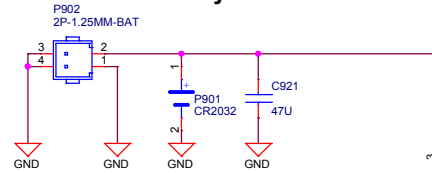


		Board Name	
		ZGM230SB Dev Kit	
Designed PEP		Page Title	
		On-board Debugger	
Size A3		Board Number	
		BRD2603A	
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Sheet Modified Date Wednesday, May 11, 2022		A01	
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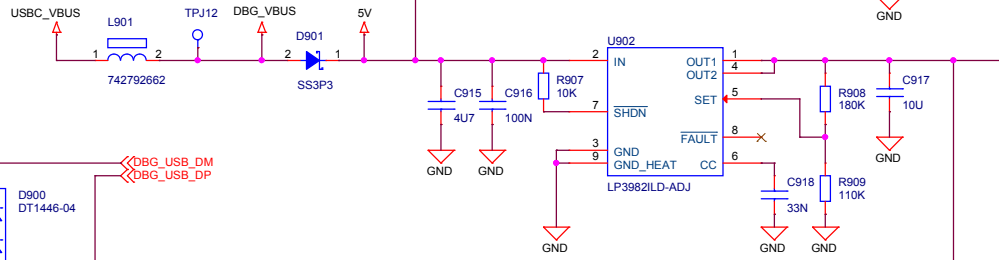
Debug USB Connection



Battery Connectors



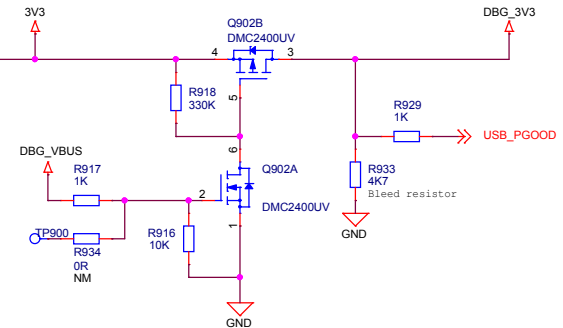
3.3V Regulator



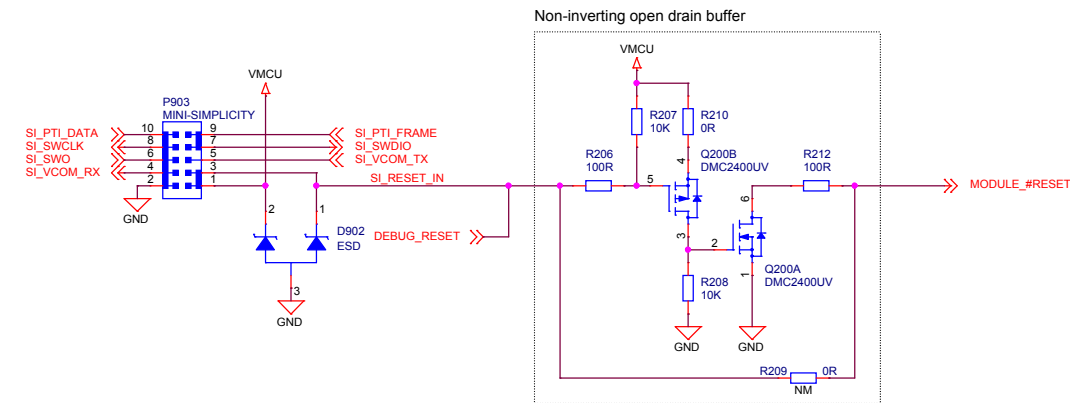
Target Voltage Domain

Q901 switches from battery power to USB when USB is plugged in. Additionally, the Mini Simplicity connector can supply power directly to the target voltage domain (VMCU) if the USB line and battery is removed.

Debugger Power Isolation



Mini Simplicity Connector



RESETn on U1 has an internal pull-up to DVDD. The purpose of this circuit is to prevent current flowing from VMCU to DVDD through this pull-up if a connected debugger has a pull-up resistor from reset to VMCU.

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		ZGM230SB Dev Kit	
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		Power & Mini Simplicity	
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