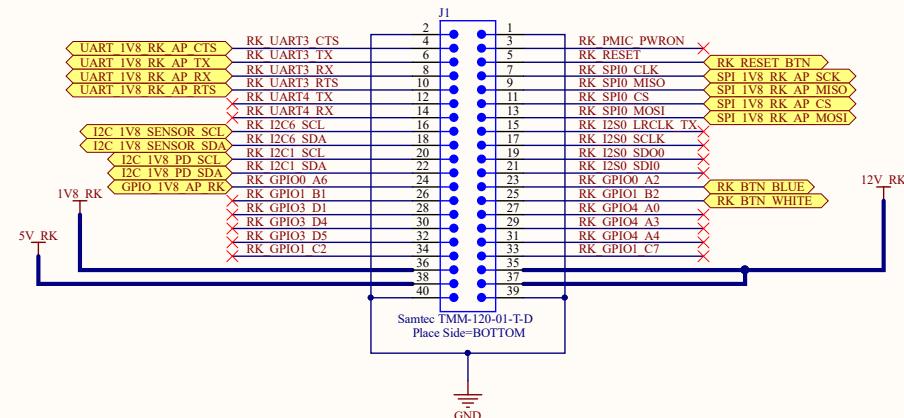
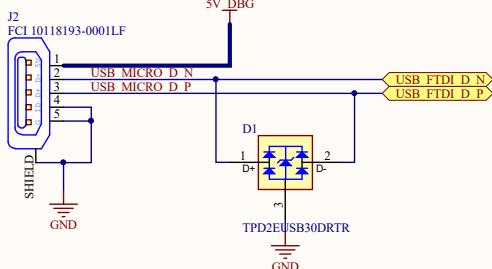


## Board Connectors

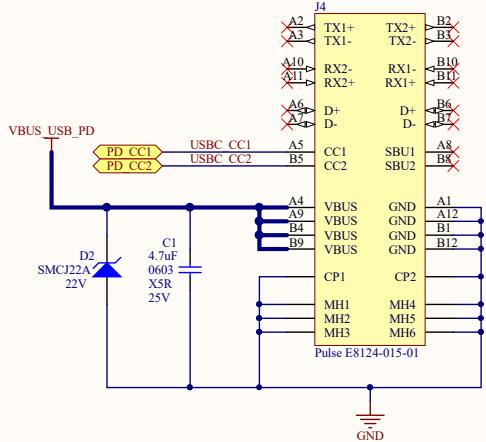
Rock960 Low-Speed Connector



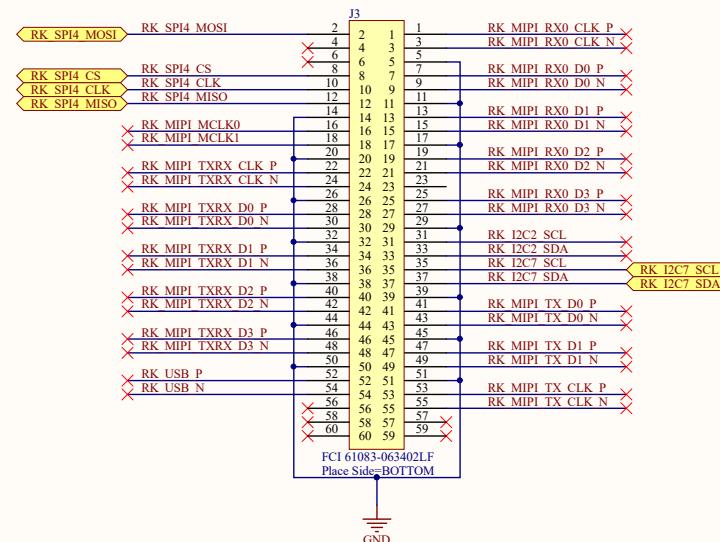
Micro USB Type B Connector



USB Type C Connector



Rock960 High-Speed Connector



Title **Board Connectors**

Size: B | Number: | Revision:1.0

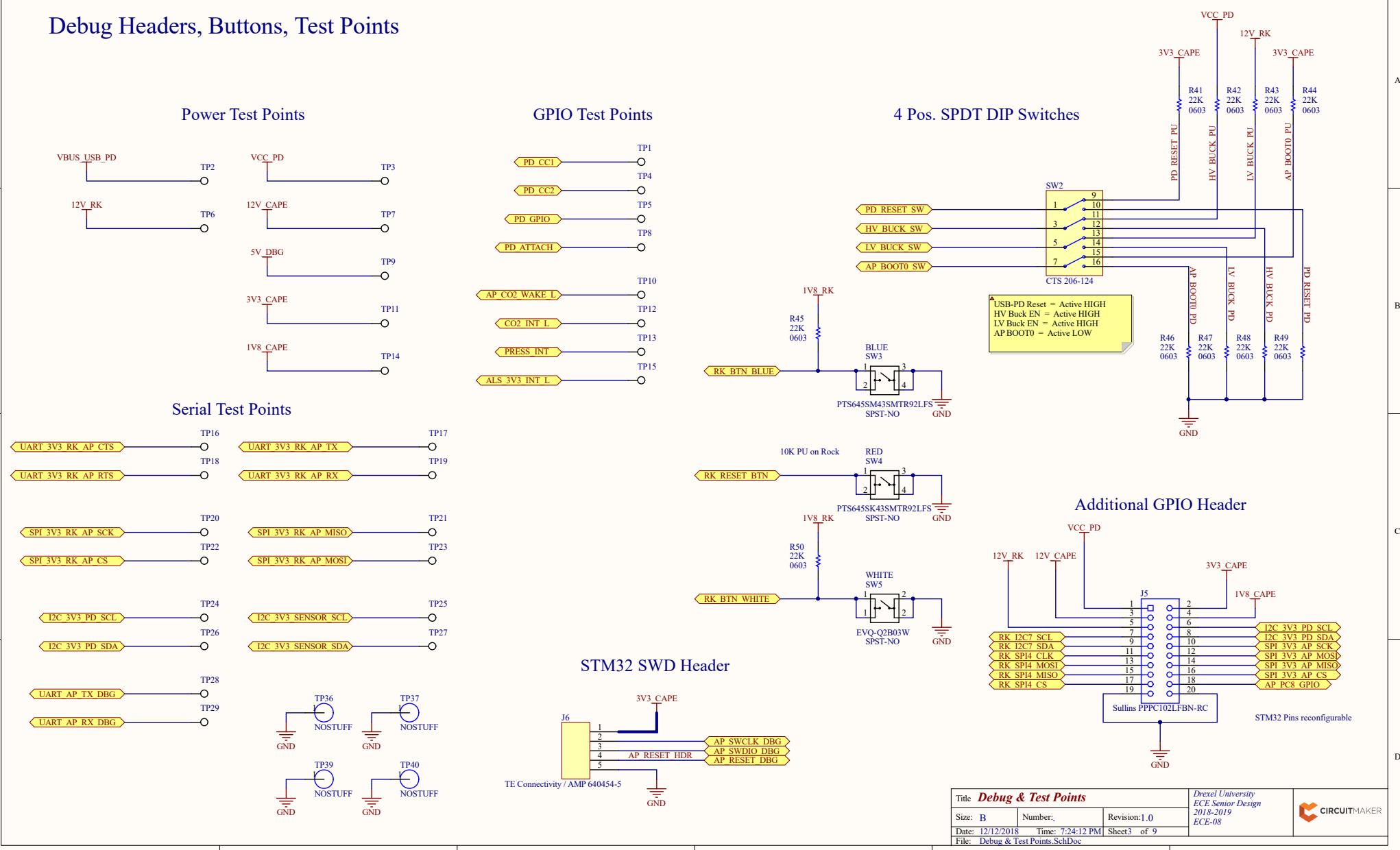
Date: 12/12/2018 Time: 7:24:12 PM Sheet 2 of 9

File: Board Connectors.SchDoc

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## Debug Headers, Buttons, Test Points



Title **Debug & Test Points**

Size: B Number: Revision:1.0

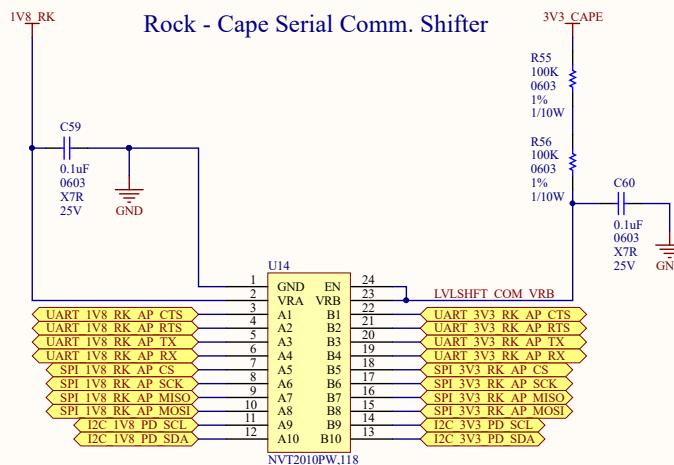
Date: 12/12/2018 Time: 7:24:12 PM Sheet 3 of 9

File: Debug & Test Points SchDoc

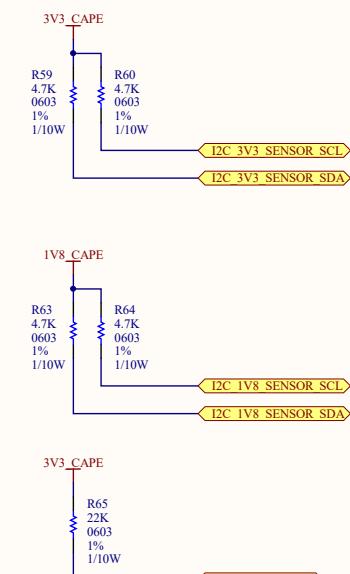
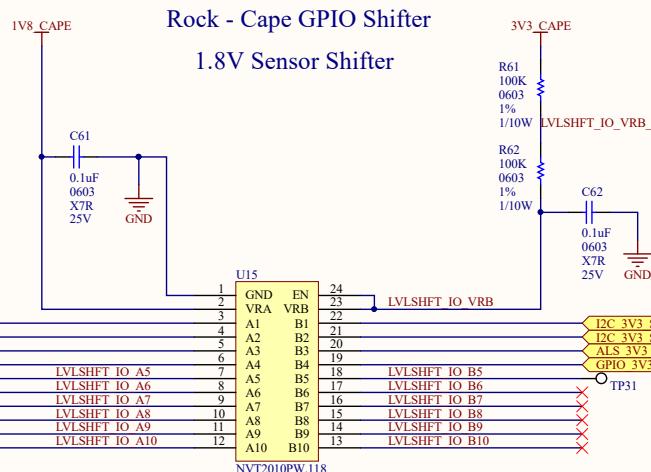
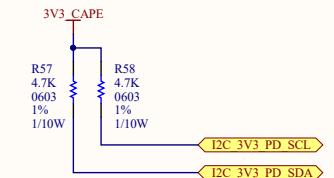
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### 3.3V <>> 1.8V Level Shifters

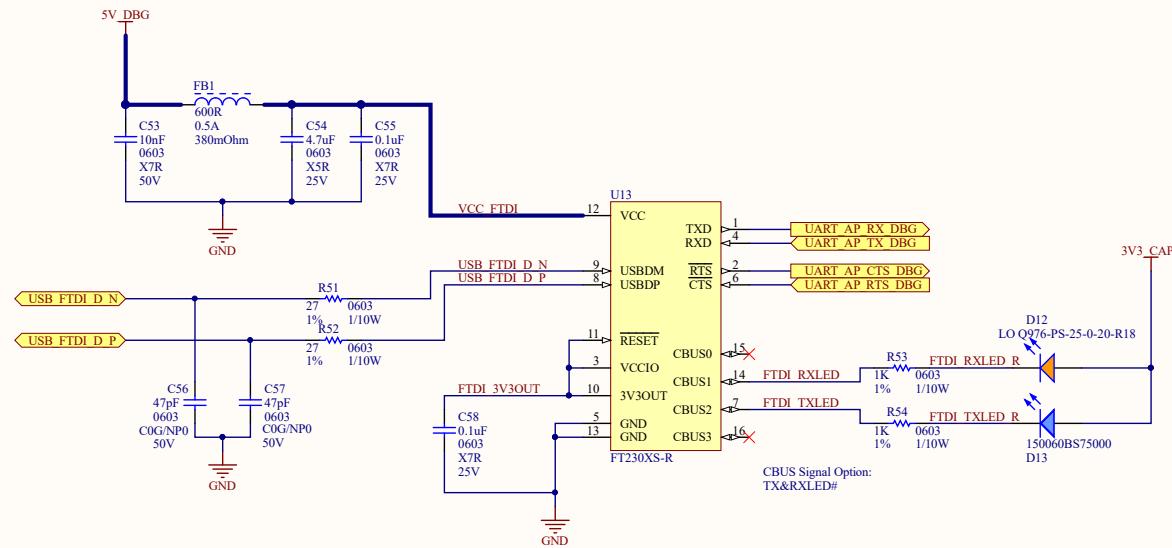


### I2C Pullups



Title: <b>IO Level Shifters</b>			Drexel University ECE Senior Design 2018-2019 ECE-28	
Size: B	Number:	Revision:1.0		
Date: 12/12/2018	Time: 7:24:12 PM	Sheet 4 of 9		
File: IO Level Shifters.SchDoc				

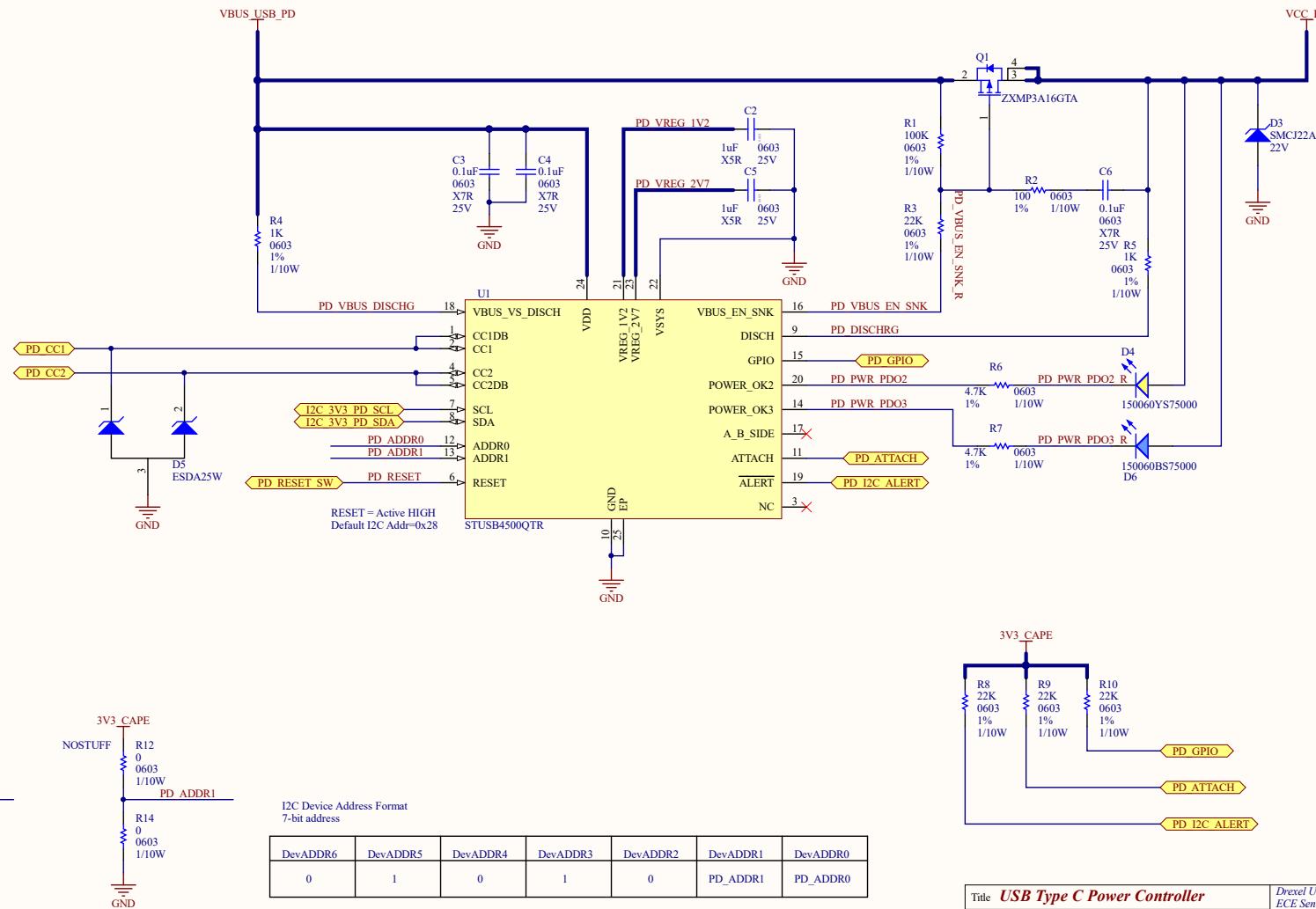
## FTDI USB to UART Bridge



CBUS Signal Option:  
TX&RXLED#

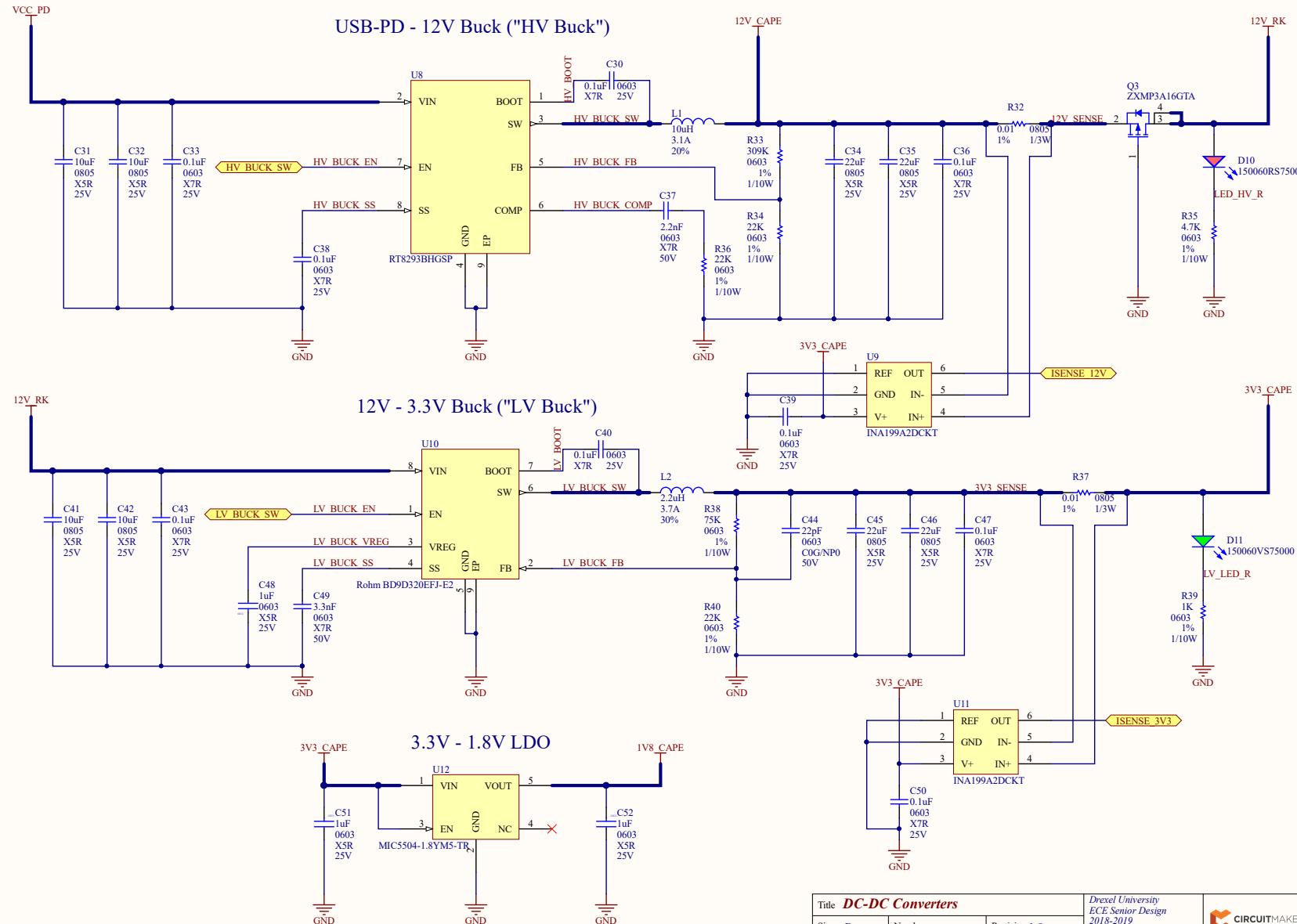
Title <b>USB to UART Bridge</b>			Drexel University ECE Senior Design 2018-2019 ECE-08
Size: B	Number:	Revision:1.0	
Date: 12/12/2018	Time: 7:24:12 PM	Sheet 5 of 9	
File: USB to UART Bridge.SchDoc			

## USB Type C Power Delivery Controller (USB-PD)



Title: <b>USB Type C Power Controller</b>	Drexel University ECE Senior Design 2018-2019 ECE-08
Size: <b>B</b>	Number: _____
Date: 12/12/2018	Revision:1.0 Time: 7:24:12 PM Sheet 6 of 9
File: USB Type C Power Controller.SchDoc	

## DC-DC Converters



Title **DC-DC Converters**

Size: B Number: Revision:1.0

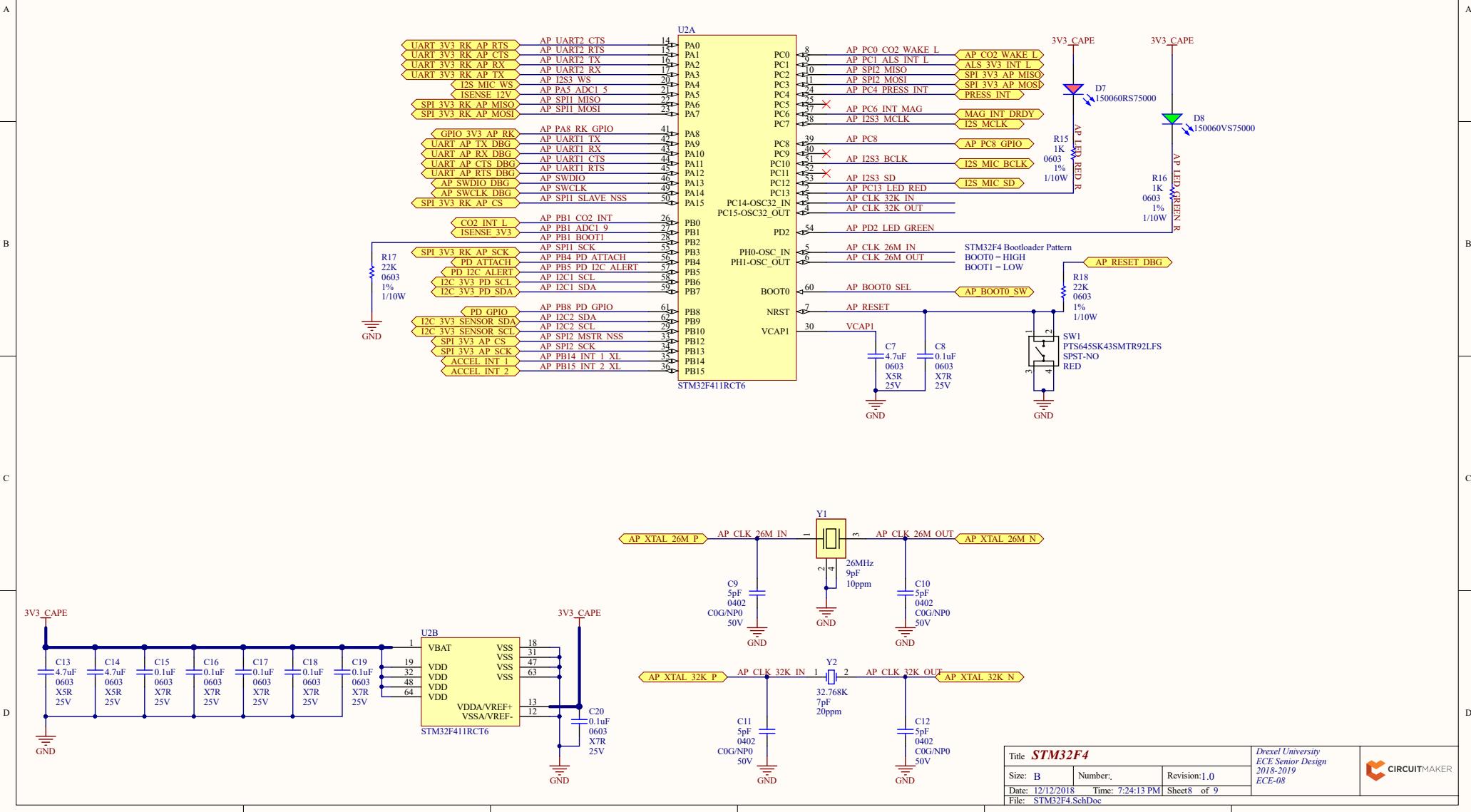
Date: 12/12/2018 Time: 7:24:13 PM Sheet 7 of 9

File: DC-DC Converters.SchDoc

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# STM32F4 Main MCU



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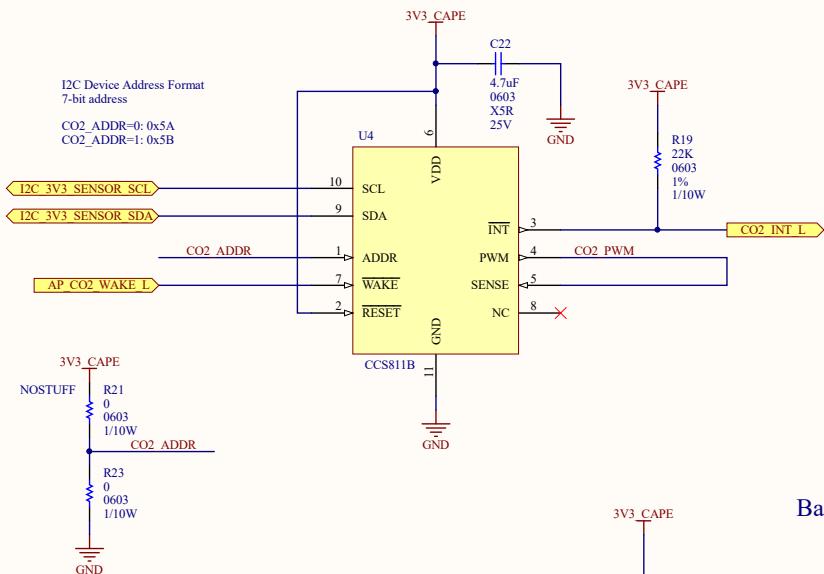
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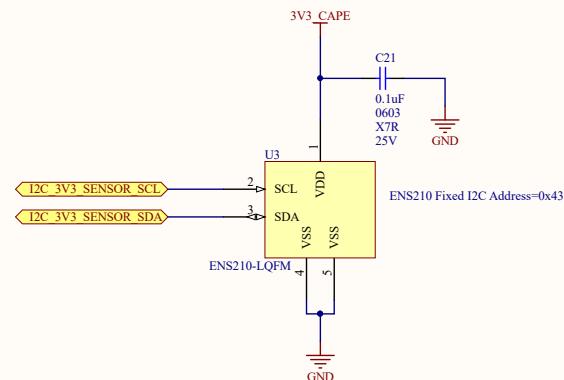
6

## Air Quality Sensors

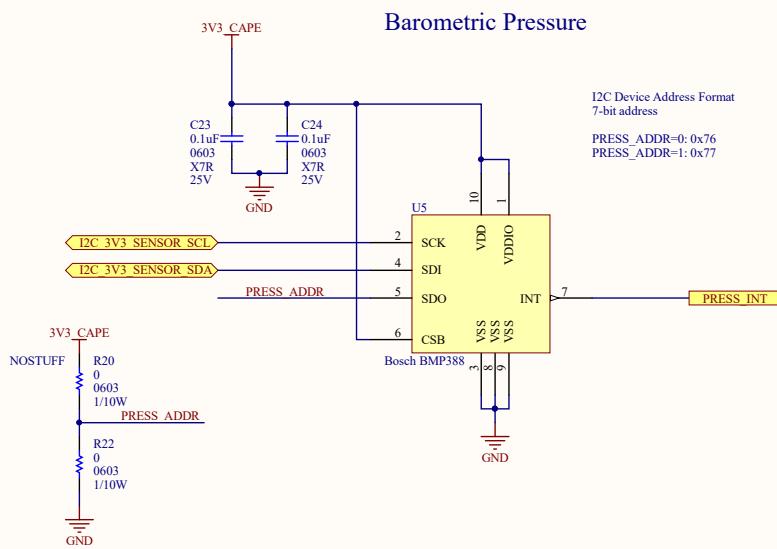
**CO<sub>2</sub> + Air Quality**



**Temperature + Humidity**



**Barometric Pressure**



Title: <b>Air Quality Sensors</b>			Drexel University ECE Senior Design 2018-2019 ECE-08
Size: B	Number:	Revision: 1.0	
Date: 12/12/2018	Time: 7:24:13 PM	Sheet 9 of 10	
File: Air Quality Sensors.SchDoc			CIRCUITMAKER

1

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3

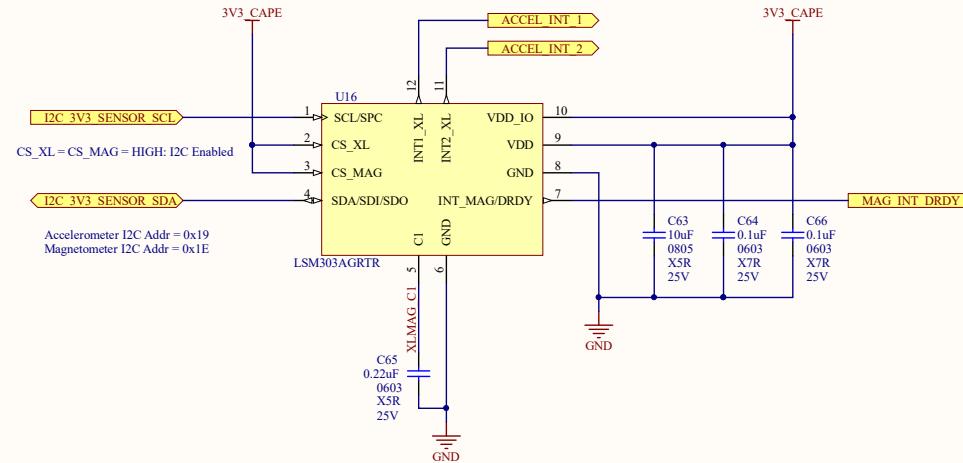
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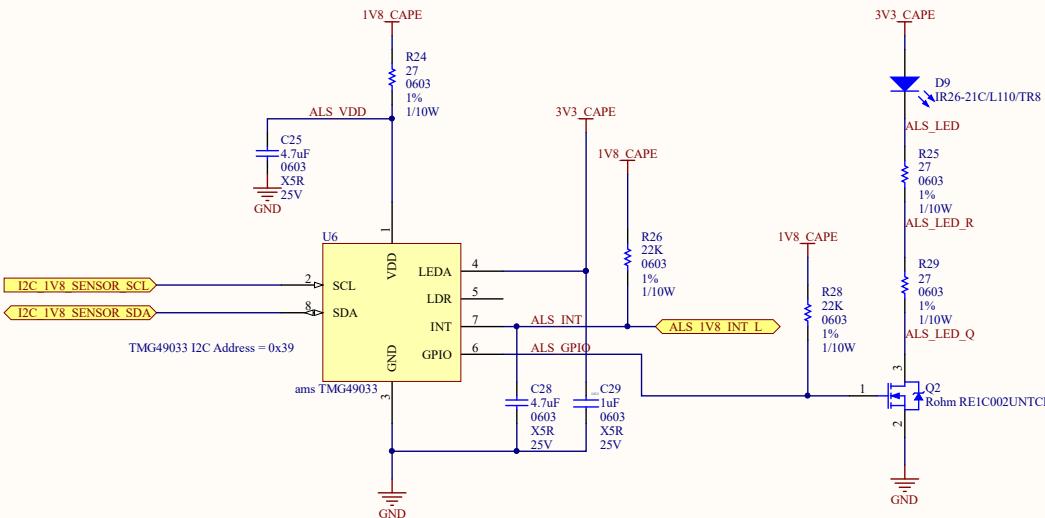
6

## Acoustic, Light, & Motion Sensors

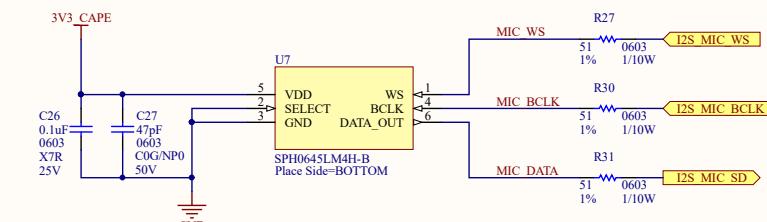
### Accelerometer + Magnetometer



### Ambient Light, Color, Gesture



### MEMS Microphone



Title: **Acoustic, Light, & Motion Sensors**

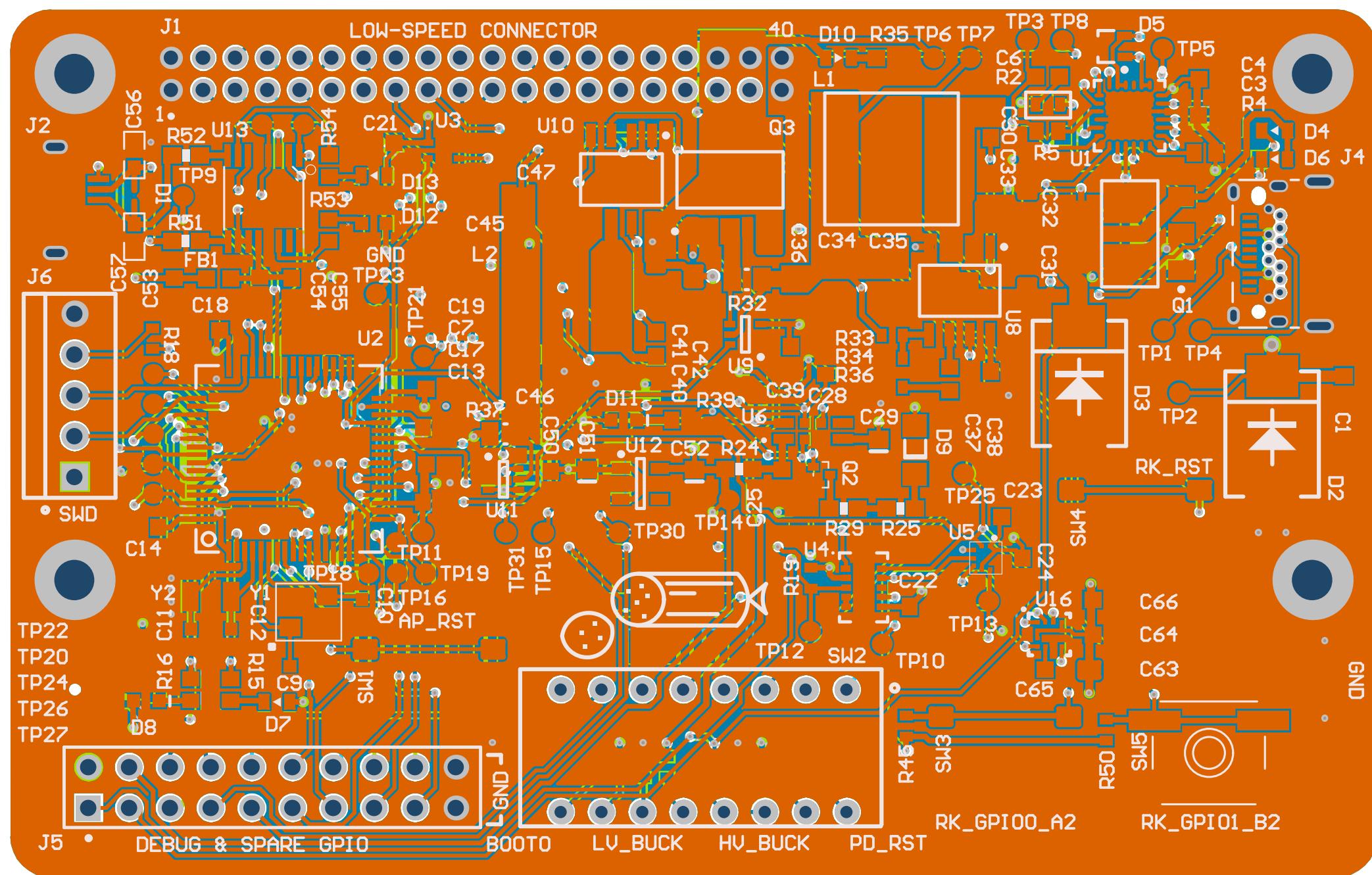
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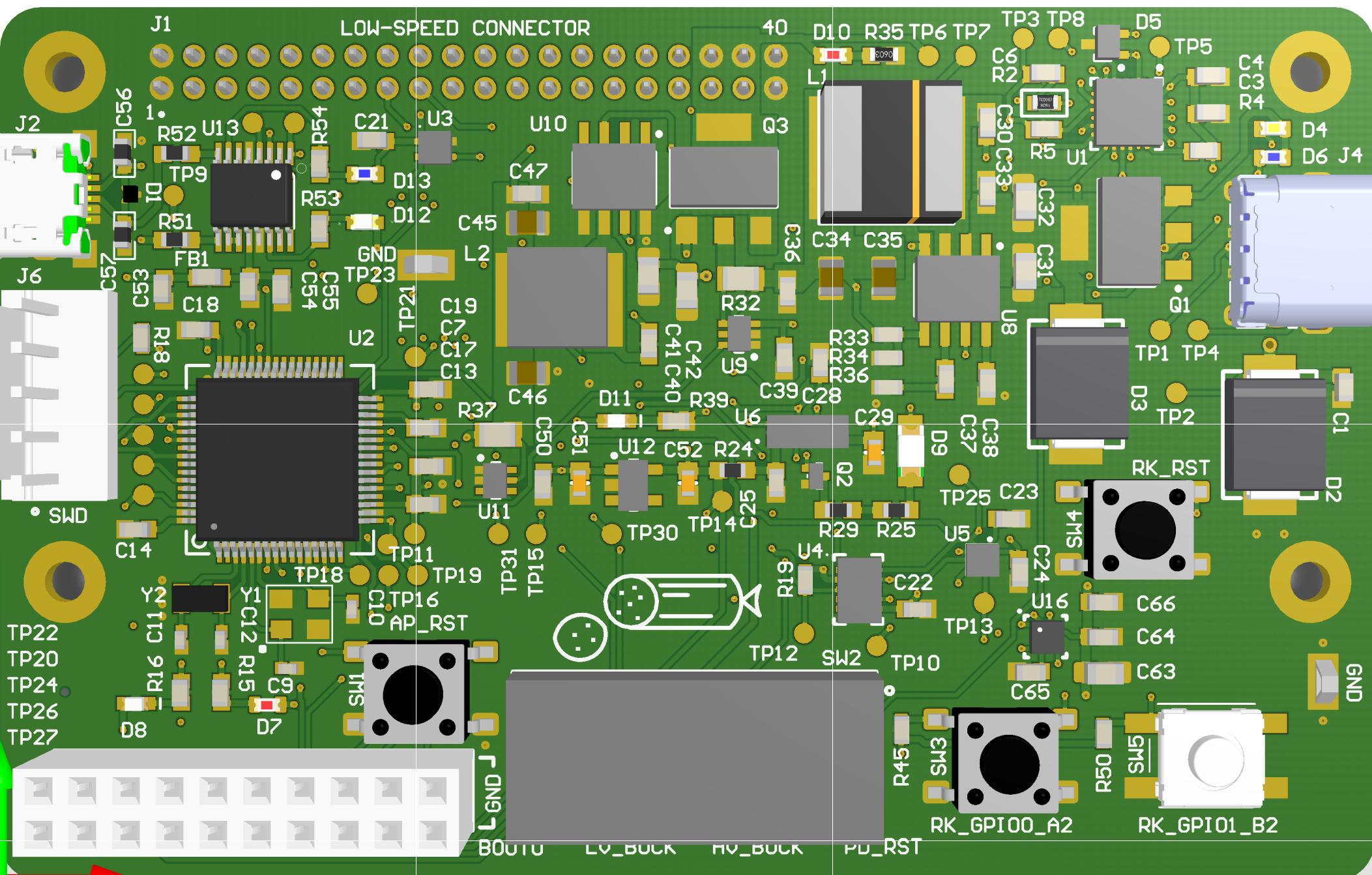
Size: **B** Number: **1.0** Revision: **1.0**

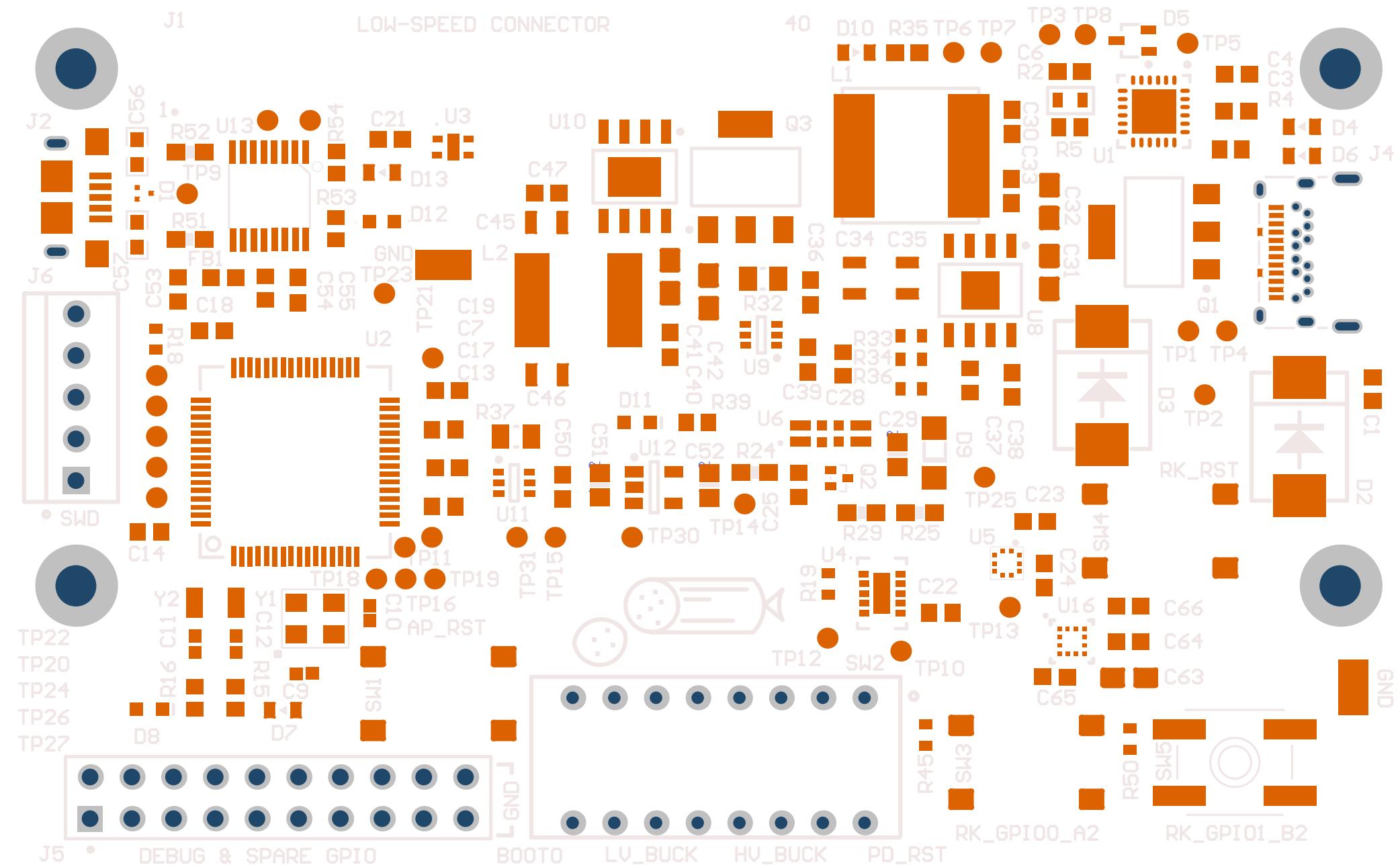
Date: **12/12/2018** Time: **7:24:13 PM** Sheet **10** of **10**

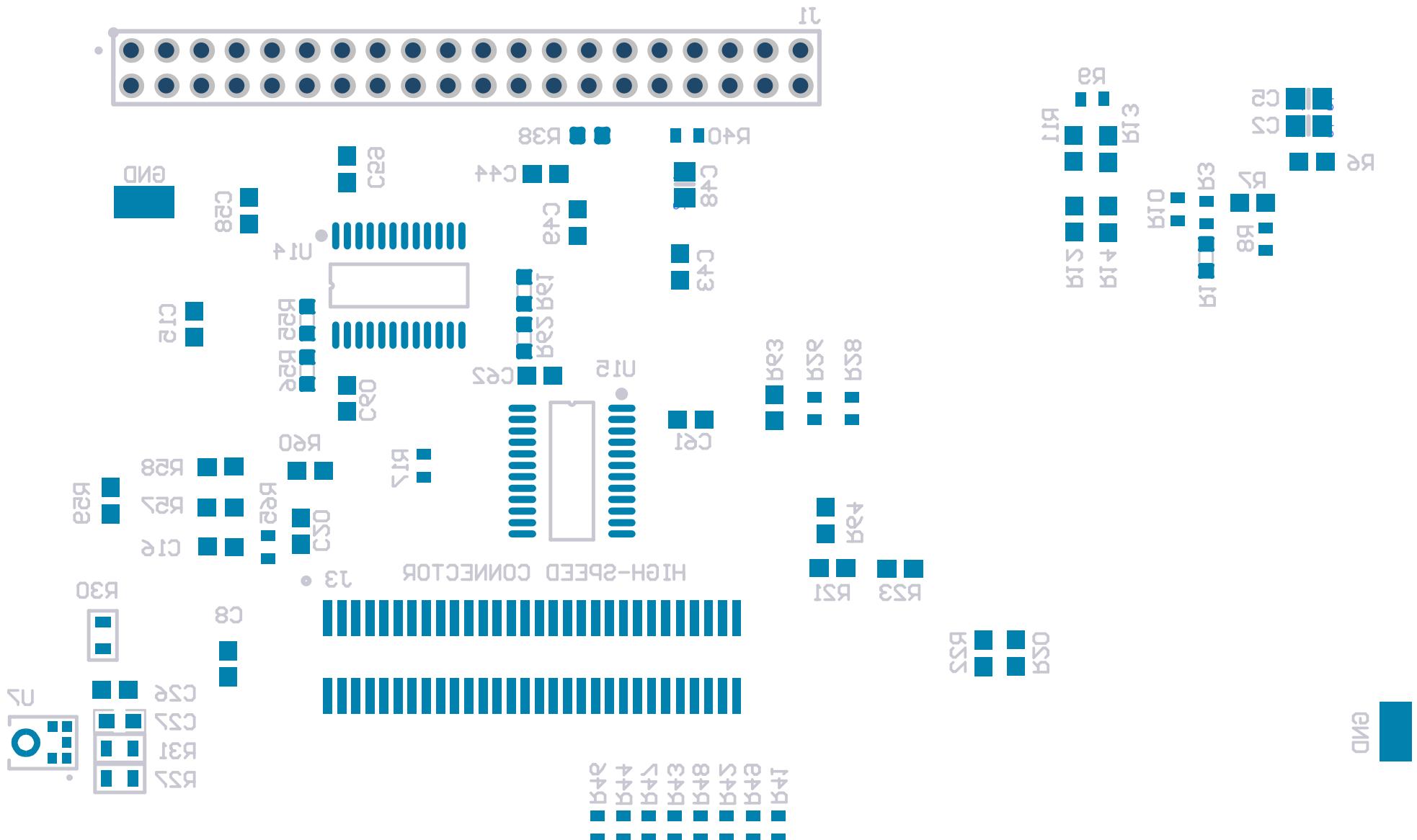
File: **Acoustic, Light, Motion Sensors.SchDoc**











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ECE-08\_2018-2019

