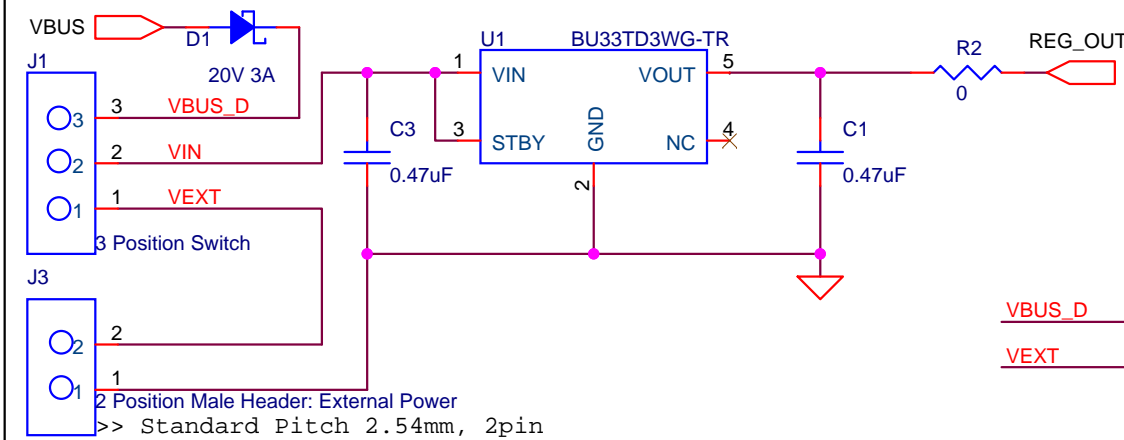


# ROHM Sensor Platform Base Board

Page	Contents
1	Table of Contents/Revision History
2	Sensor Platform Base Board
3	FTDI Details

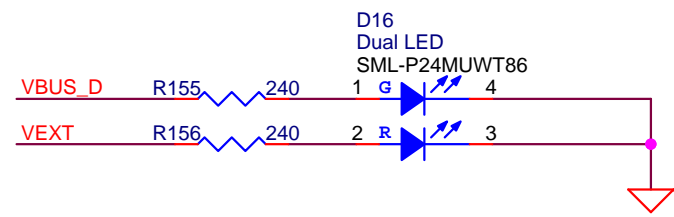
Rev	Contents
01	Initial release 2014-07-17
1.01	REM Control Switches, Fixed Headers, 2014-07-21
2.0	2014-09-17: - Add hierachical port REG_OUT into FTDI block. - Add dual LED D16.

## INPUT POWER

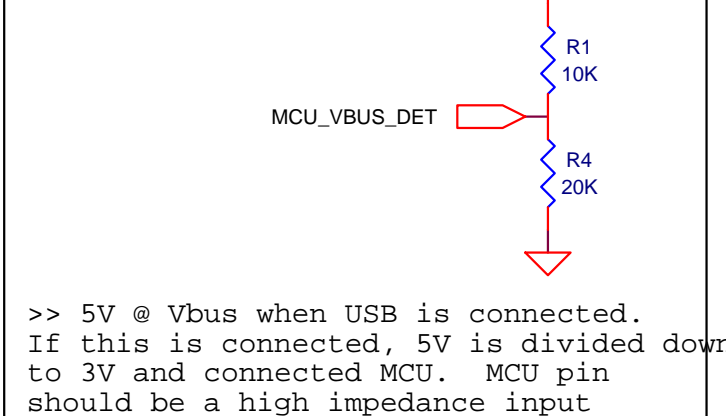


>> Coin Cell does not need to be On-Board. We would like to have the positive and GND leads on a 2 position header (J1)

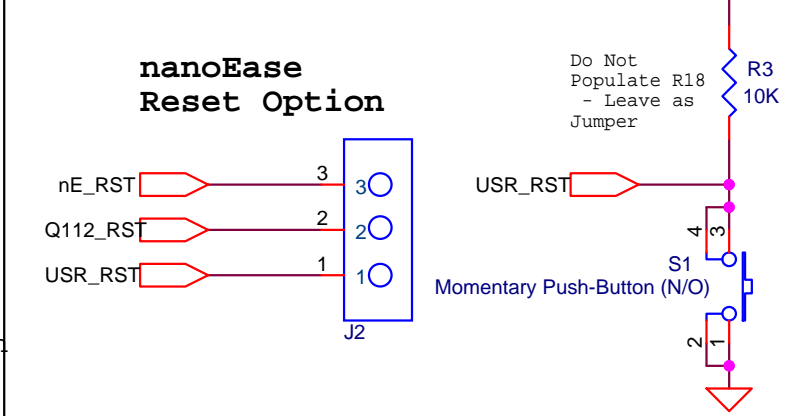
>> 3 Position Switch (J15)  
Case 1: Middle pin OPEN  
Case 2: Middle pin con to VBUS  
Case 3: Middle pin con to Ext. Power



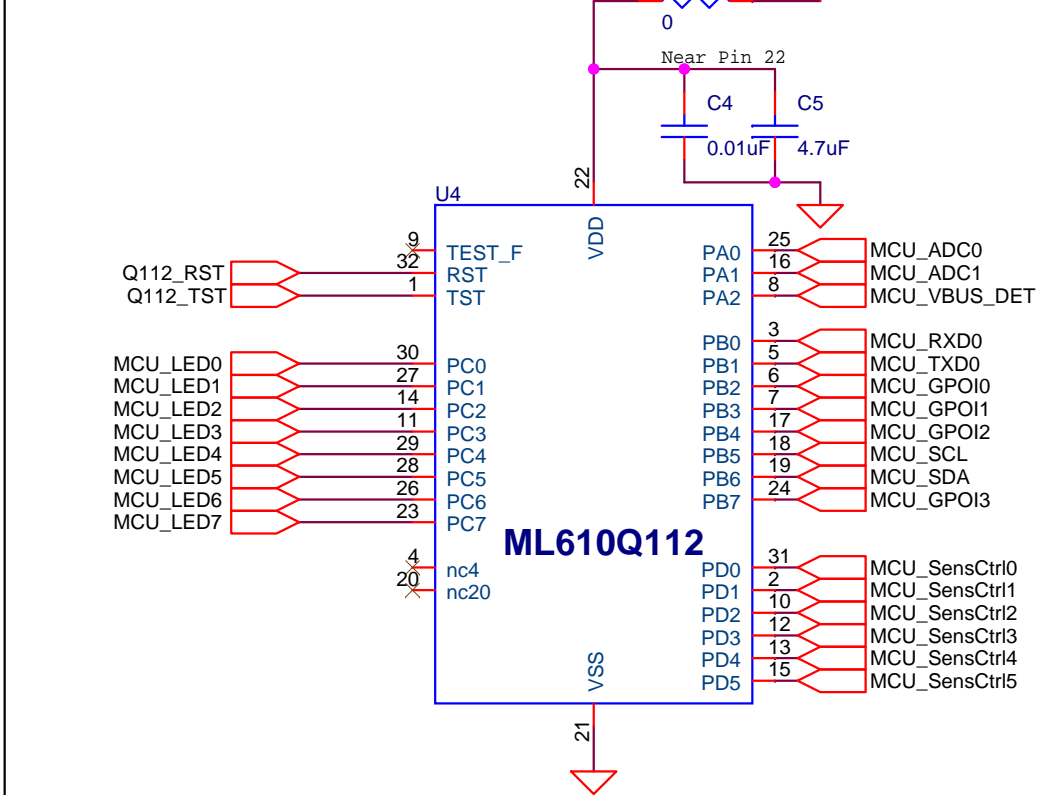
## VBUS DET Circuit



## RESET MCUs

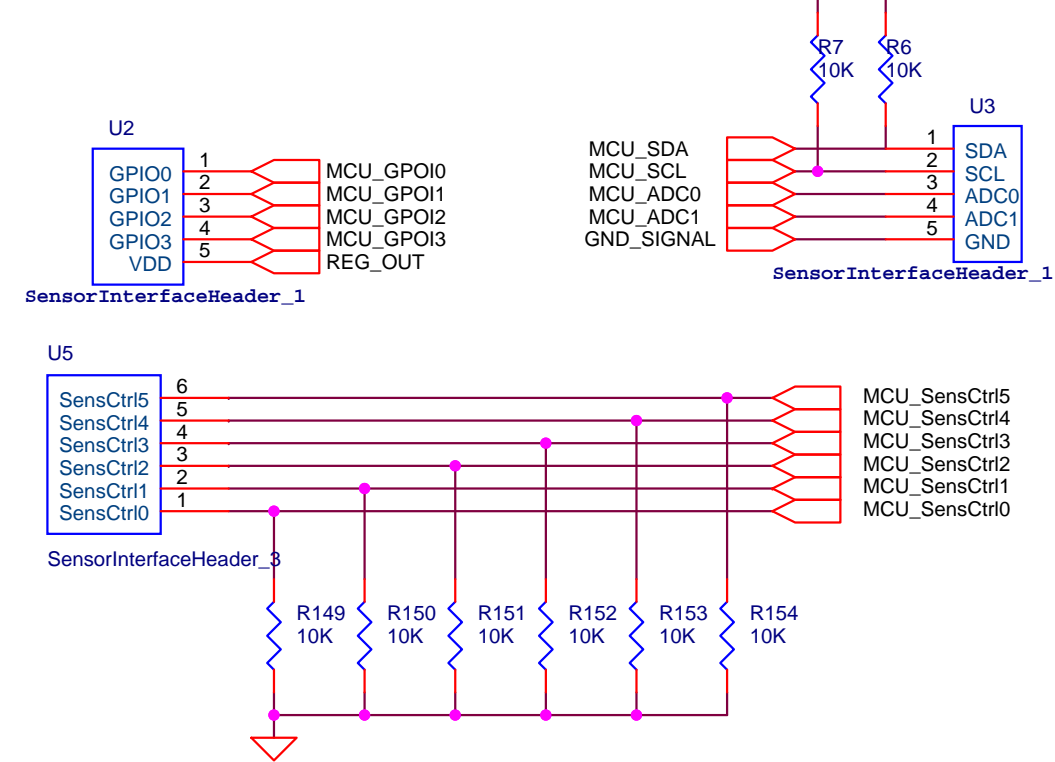


## Q112 MICROCONTROLLER

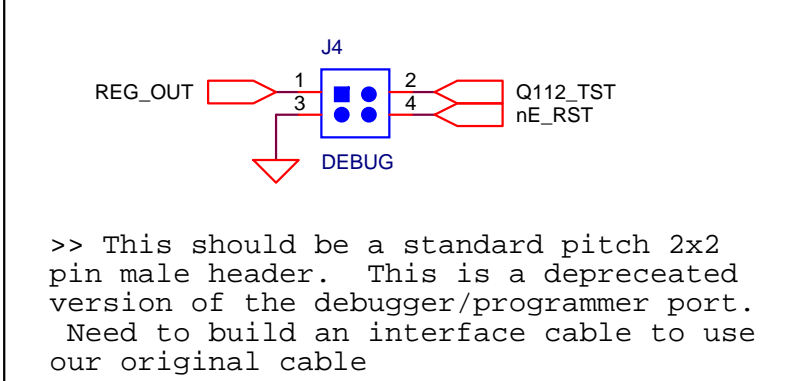


## Sensor Breakout Board Interface

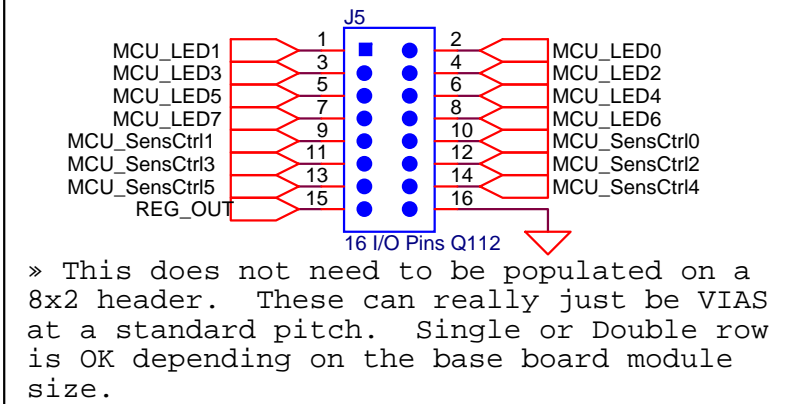
>> All headers are female types.



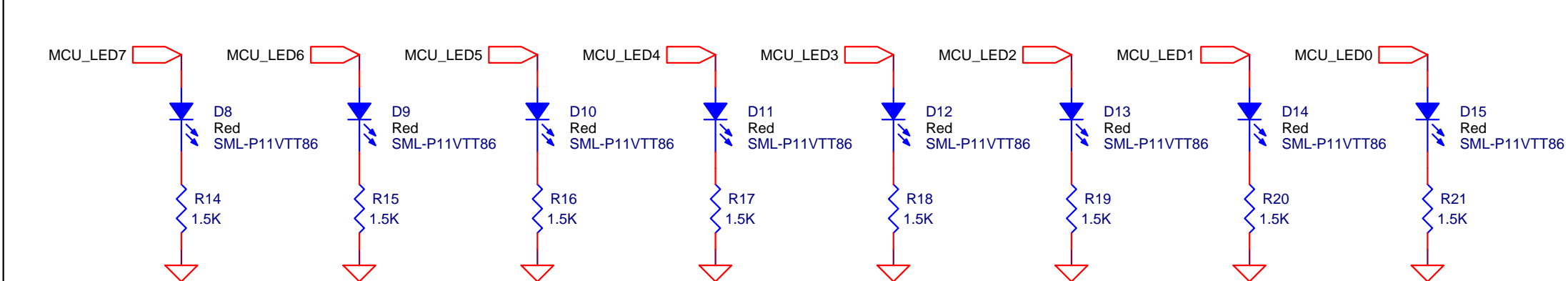
## MICROCONTROLLER DEBUGGER



## Extra Header Rows

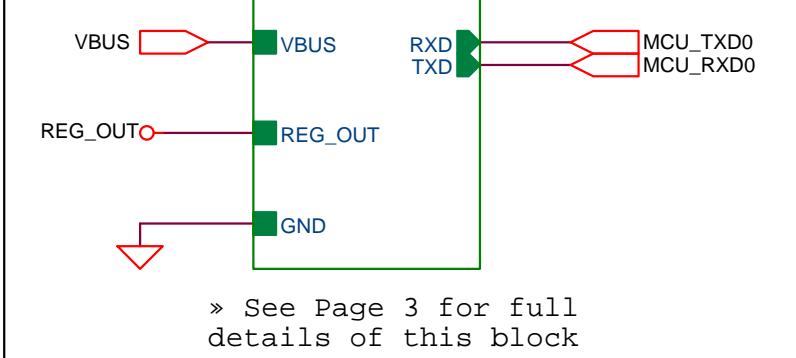


## Standalone Mode LED Feedback Section



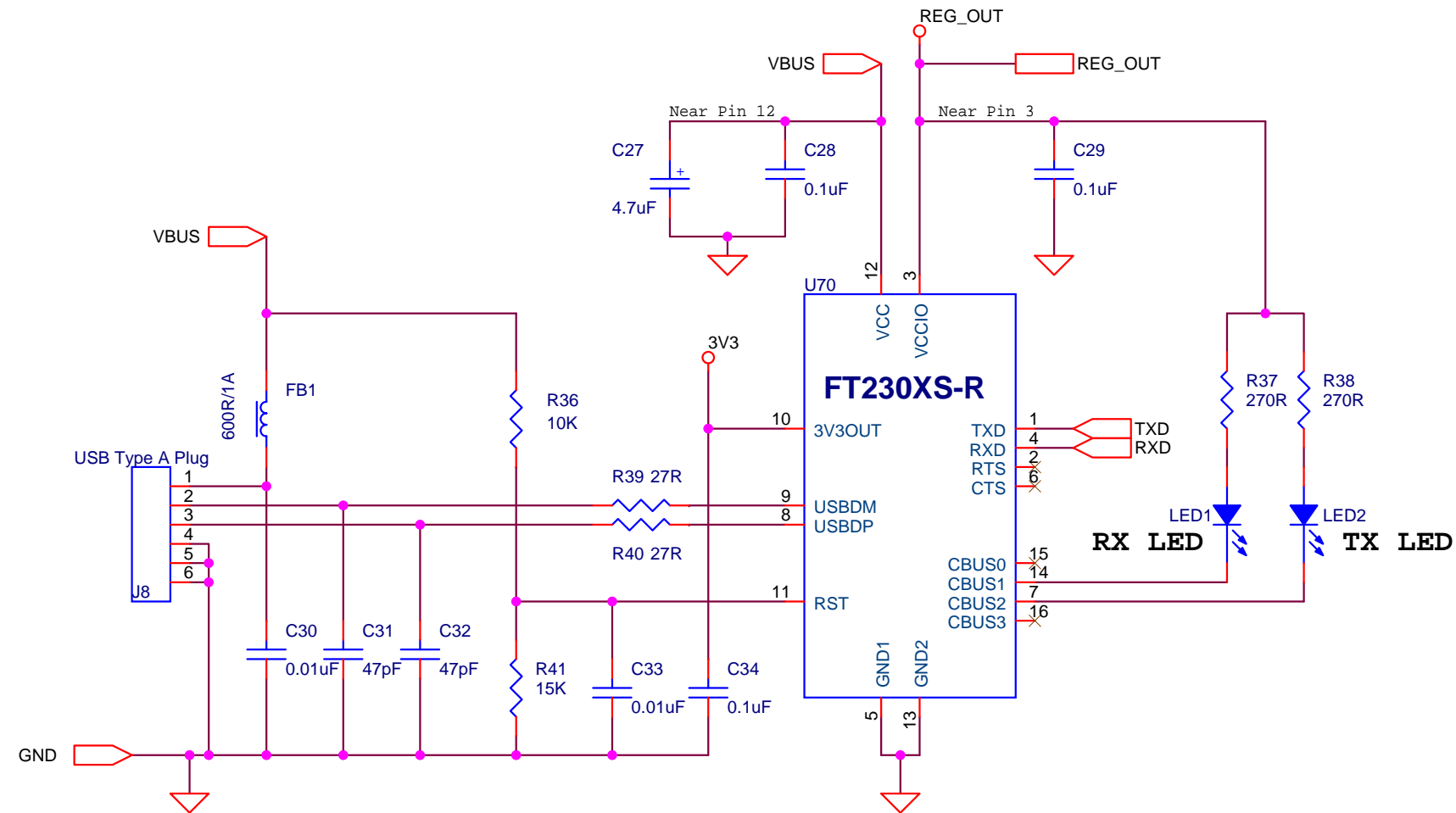
>> Using ROHM Red PicoLEDs

## FTDI IC



Title		
Sensor Platform - Base Board		
Size	Document Number	Rev
B	Sensor Platform - Base Board Schematic	02
Date:	Thursday, September 18, 2014	Sheet 2 of 3

## USB to serial UART interface



» FT230XS-R RST => Active Low

The MTP memory on this FT-230XS-R device can be programmed directly over USB, using the FT\_Prog utility to set the required options and program it. See:  
[www.ftdichip.com/Support/Utilities.htm#FT\\_Prog](http://www.ftdichip.com/Support/Utilities.htm#FT_Prog)

Title <b>Sensor Platform - Base Board FTDI IC</b>			
Size B	Document Number FTDI Portion of Circuit		Rev 02
Date:	Thursday, September 18, 2014	Sheet      3      of      3	

# ROHM Sensor Platform Breakout Boards

Page	Contents
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1	Table of Contents/Revision History
2	Ambient Light Sensor, Hall, Temp, UV, MEMS Sensor Breakout Boards

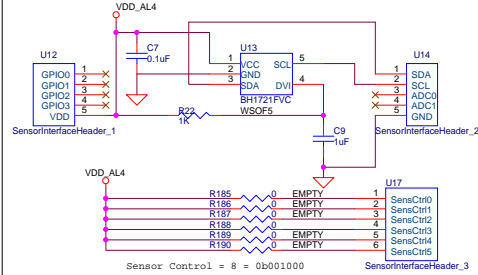
Rev	Contents
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01	Initial release 2014-07-17
1.01	REM Control Switches, Fixed Headers, 2014-07-21
1.02	Decreased Part Count to 6, 2014-12-08

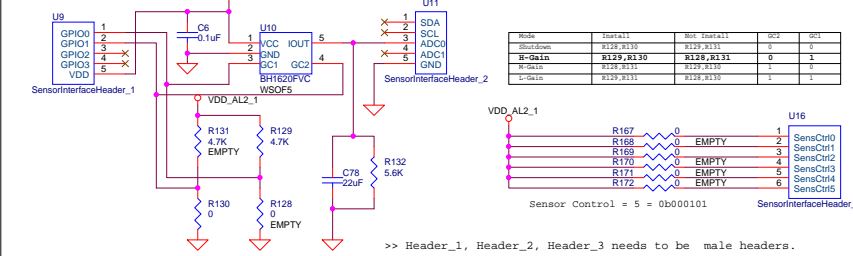
Title			Sensor Platform Schematic		
Size	Document Number		Rev		
B	Table of Contents/Revision History		01		
Date:	Monday, December 08, 2014		Sheet	1	of 5

## Ambient Light Sensors

### >> Type 1

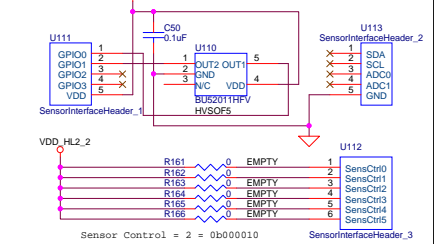


### >> Type 5



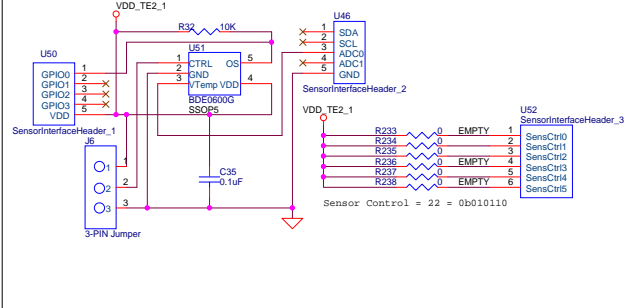
## Hall Sensor

### >> Type 2



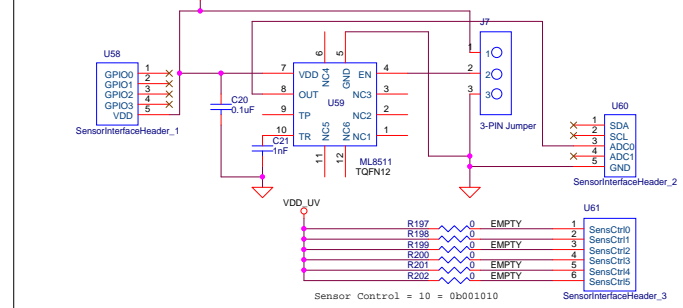
## Temperature Sensors

### >> Type 4



## UV Sensor

### >>ML8511



## MEM Sensors

### >>KMX061

