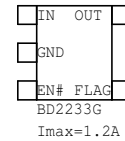
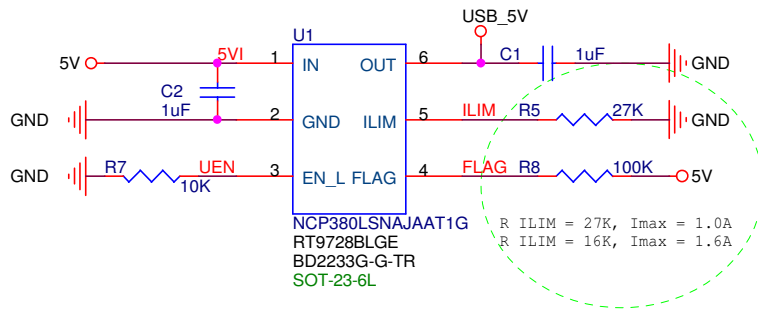
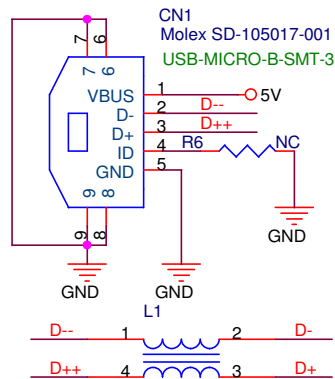
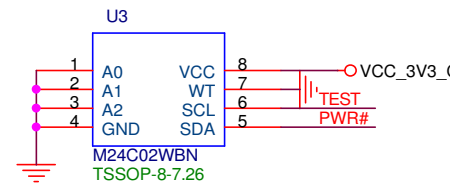
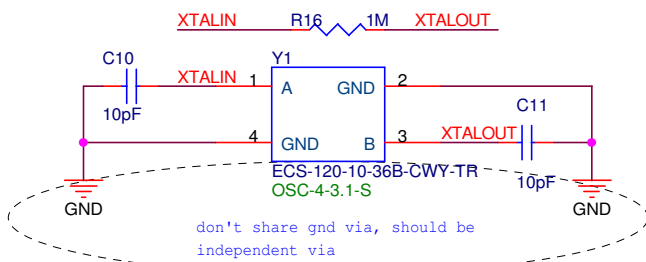
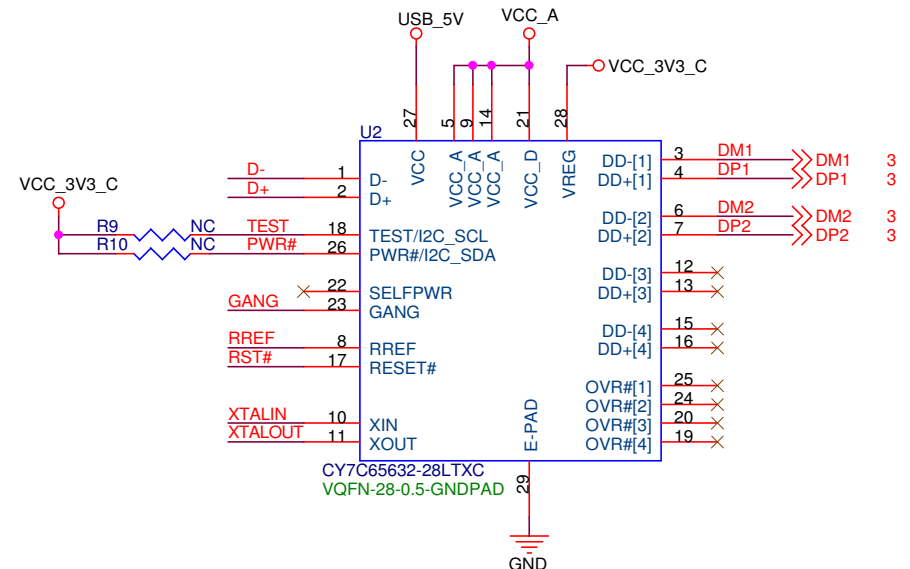
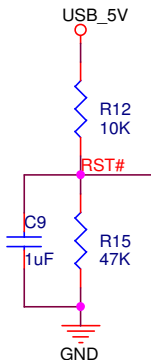
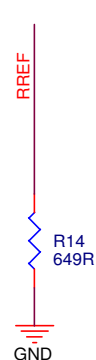
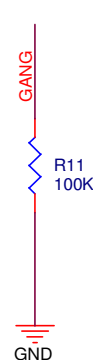
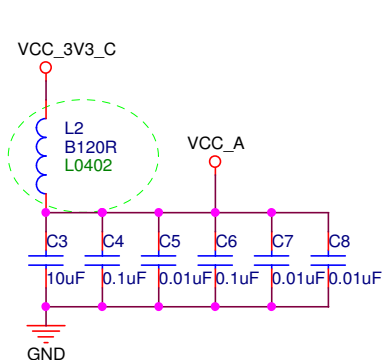
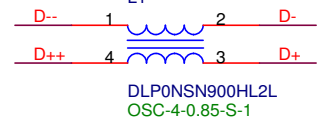


Title Block Diagram					
DWG NO Himax			DATE Thursday, May 28, 2020		
Size	Checked	Designer	Drawer	Rev	SHEET
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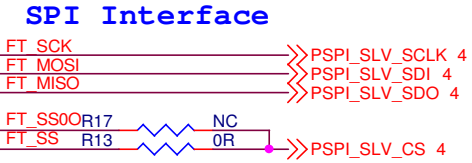
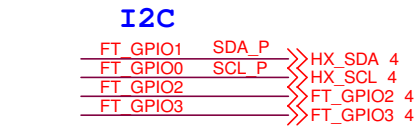
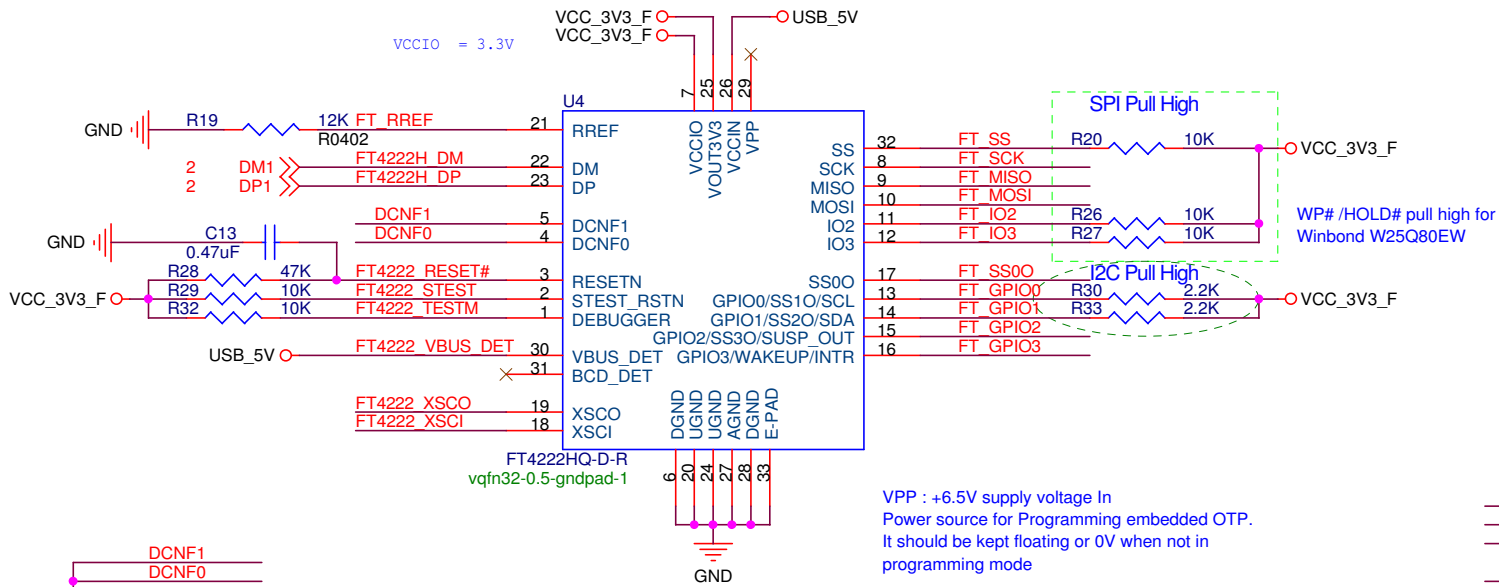
If Use external 3.3V power source, VREG be NC
 If Use internal VEG 3.3V out, bead short and
 don't need external 3.3V regulator components.

Internal LDO provide 150mA, Max. core
 consumption 100mA.



Title					
Micro USB, USB Hub CY7C65632					
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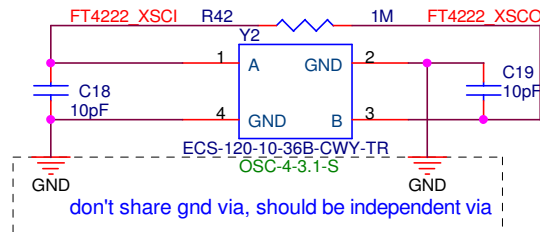


Default FT4222H as Slave for image transfer.

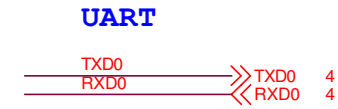
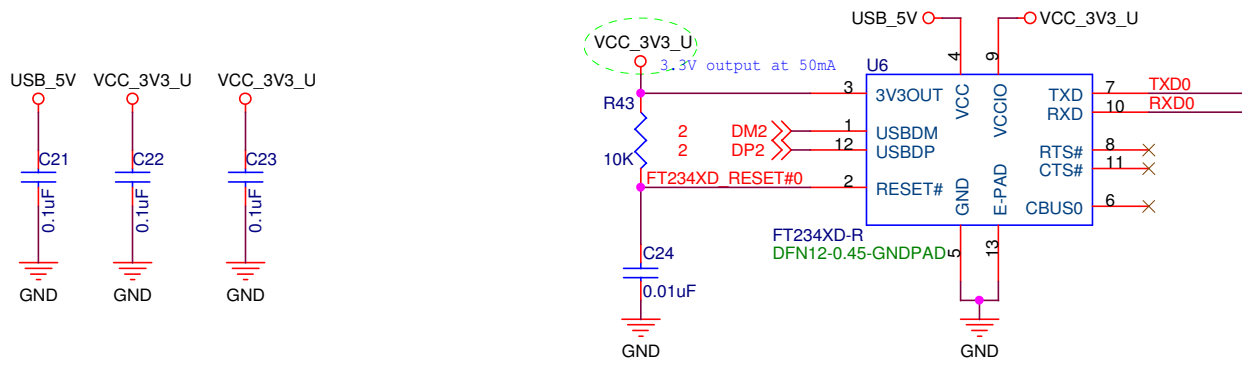
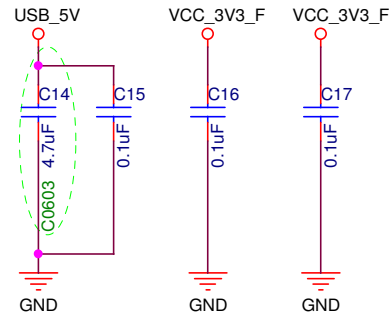
VPP : +6.5V supply voltage In
Power source for Programming embedded OTP.
It should be kept floating or 0V when not in programming mode

SS(in) : CS# for FTDI422H be Slave
SS00 : CS# for FTDI422H be Master

SS(in) must be tied to high when SPI master mode enabled.



don't share gnd via, should be independent via



Title FTDI4222H & FT234XD					
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HII's CCM

HM0360 DVDD=1.2V

HM01B0 DVDD=1.5V

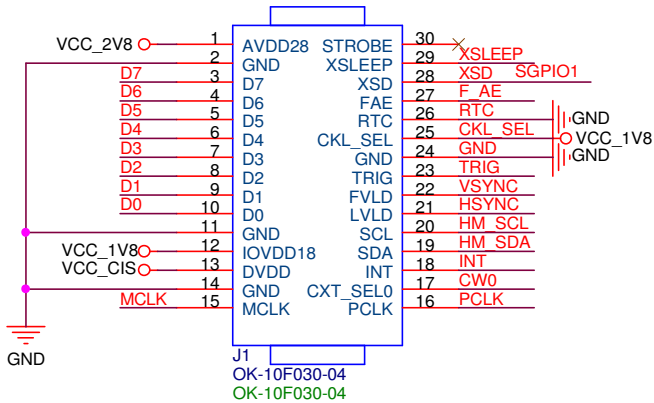
IOVDD = 1.8V

OK-10GM030-04

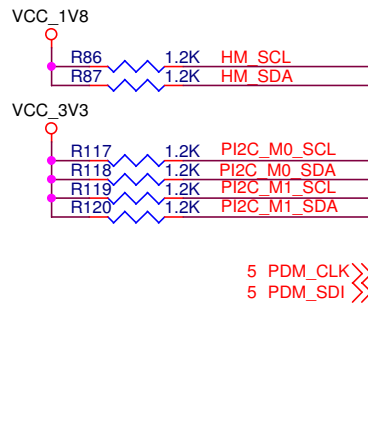
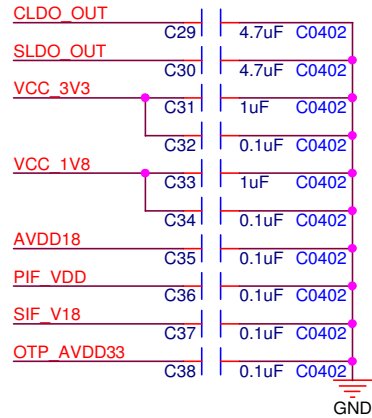
CLK_SEL

= High (external clock)

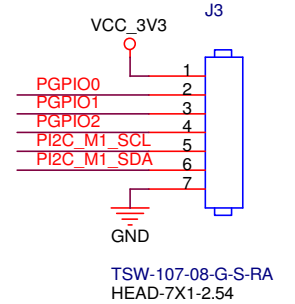
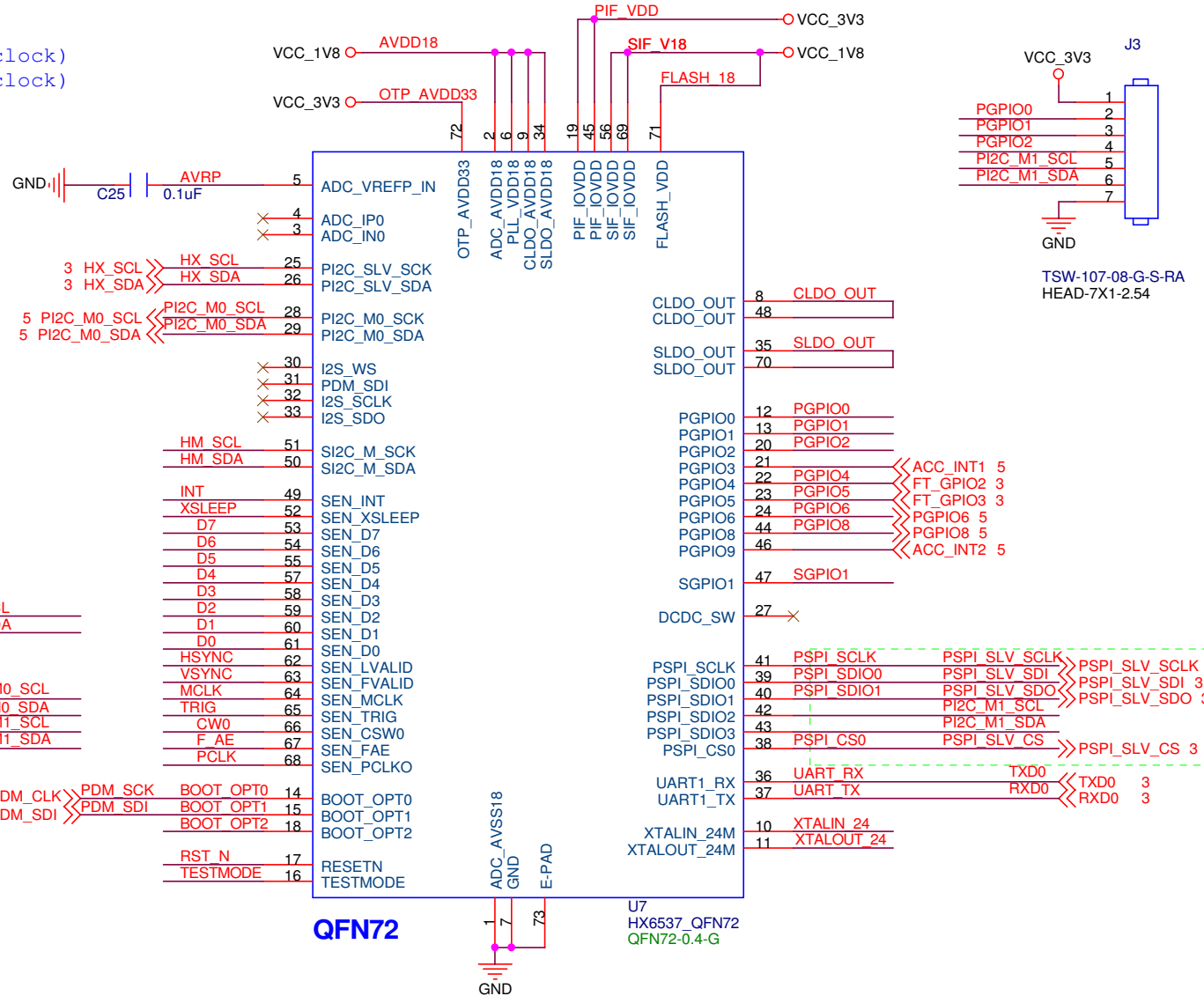
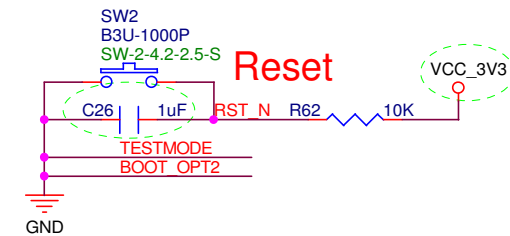
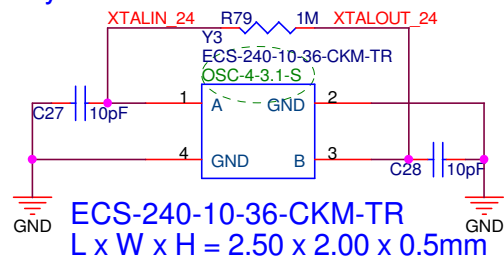
= Low (internal clock)



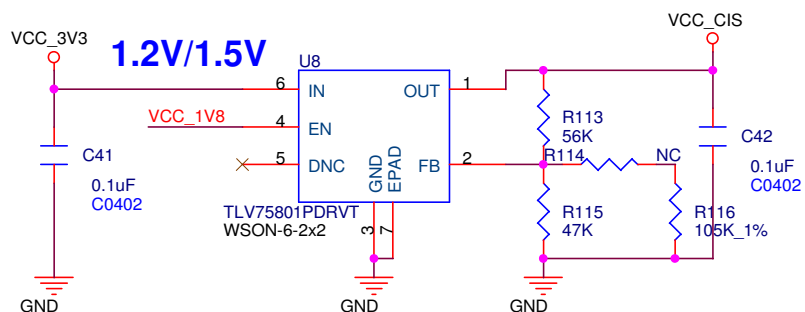
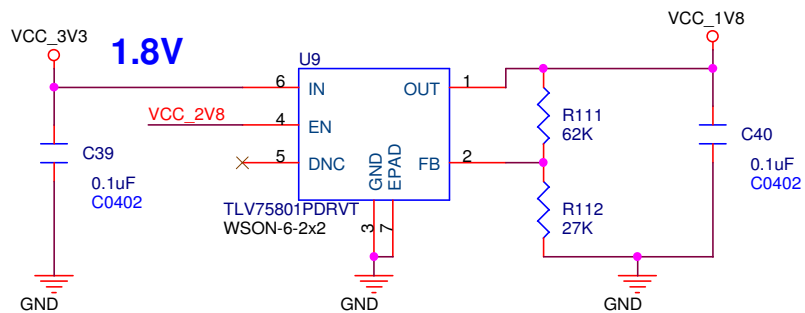
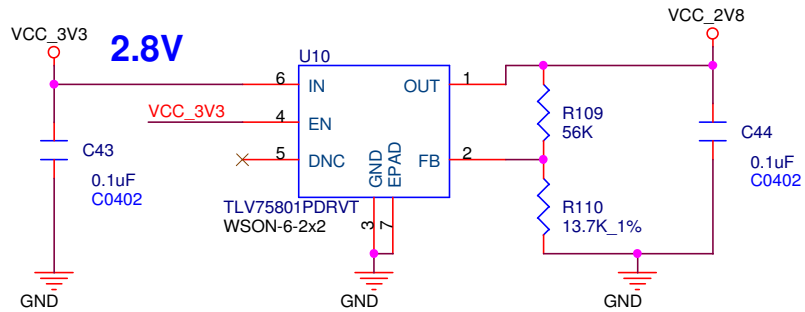
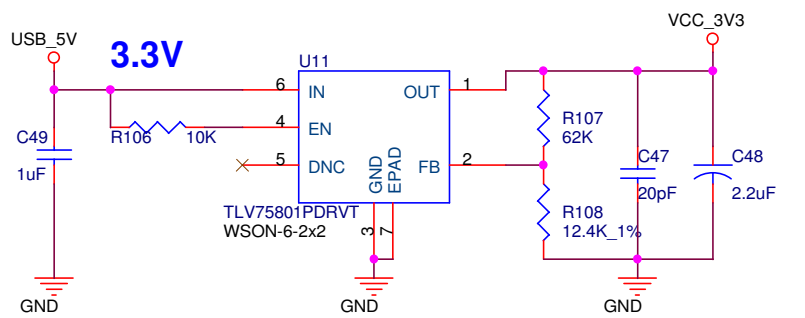
Bypass Capacitor



Crystal 24MHz



Title HX6537 WE-I + SENSOR					
DWG NO Himax			DATE Thursday, May 28, 2020		
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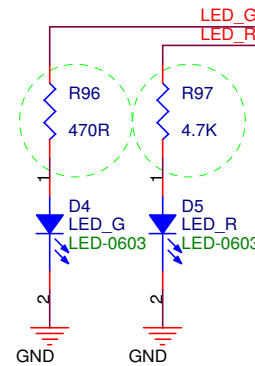
TLV75801PDRVT
 Vin = 1.5V to 6V
 $V_{out} = 0.55 * (1 + R1/R2)$
 $V_{EN(hi)} > 1.0V$
 $V_{EN(lo)} > 0.3V$

VCC_CIS
 R114 short = 1.5V
 R114 NC = 1.2V

RGB LED

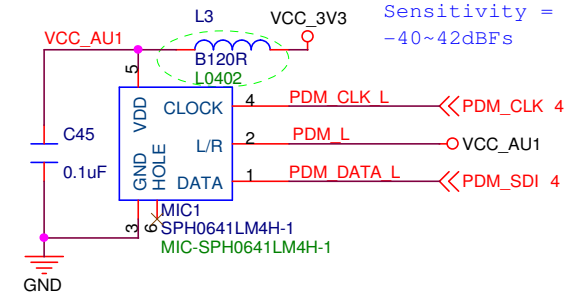
GPIO6->Red
 GPIO8->Green

General LED
 LED Red VF : 1.8V
 LED Green VF : 1.95V
 LED Blue VF : 2.95V



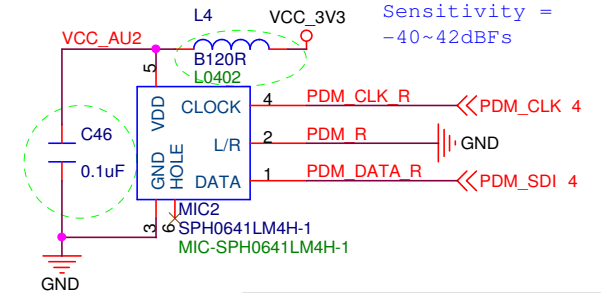
PDM Microphone L

VDD = 1.65V~3.6V
 Sensitivity = -40~42dBFs



PDM Microphone R

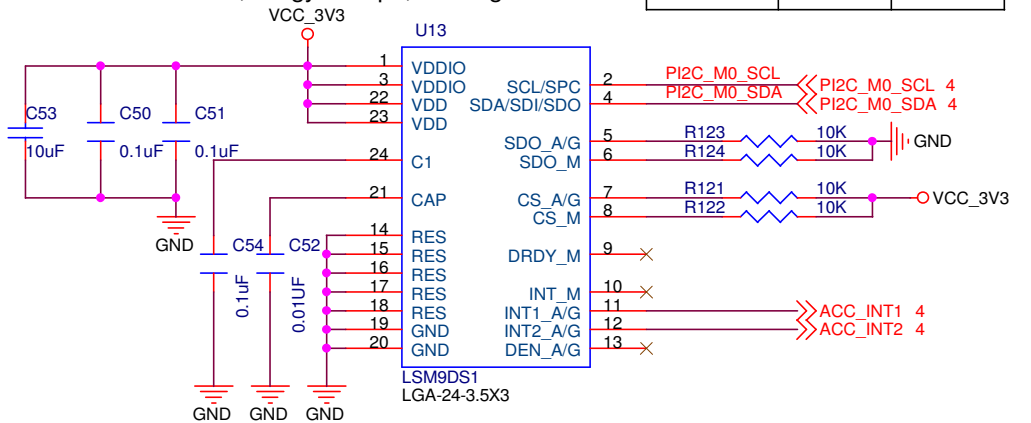
VDD = 1.65V~3.6V
 Sensitivity = -40~42dBFs



SD0M/AG	AD Addr	M Addr
0	0x6A	0x1C
1	0x6B	0x1E

LSM9DS1

iNEMO inertial module:
 3D accelerometer, 3D gyroscope, 3D magnetometer



<https://learn.sparkfun.com/tutorials/lsm9ds1-breakout-hookup-guide>

Title Indicate LED/PDM MIC/Power LDO/Sensor				
DWG NO Himax			DATE Thursday, May 28, 2020	
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SHEET				5

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