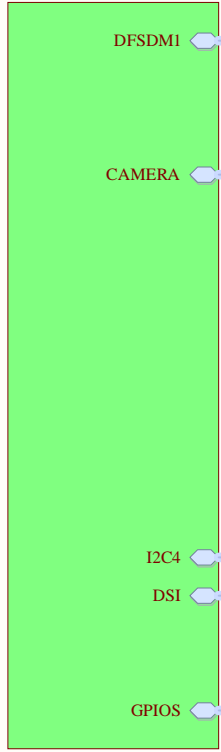


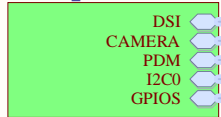
GIGA

GIGA.SchDoc

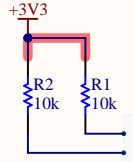


PORTENTA

HDCConn_FEMALE.SchDoc



I2C PULLUPS



MICROPHONE.SchDoc



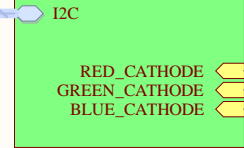
MICROPHONE

CAMERA.SchDoc



CAMERA

RGB_LED.SchDoc



RGB

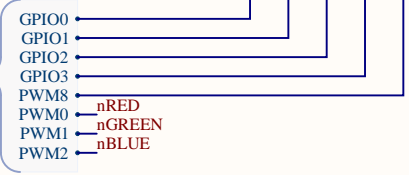
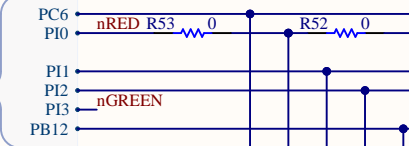
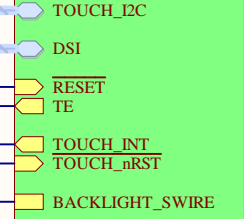
ACCELEROMETER

ACCELEROMETER.SchDoc



DISPLAY

DISPLAY.SchDoc



R48 0 0603 nRED
 R49 0 0603 nGREEN
 R50 0 0603 nBLUE

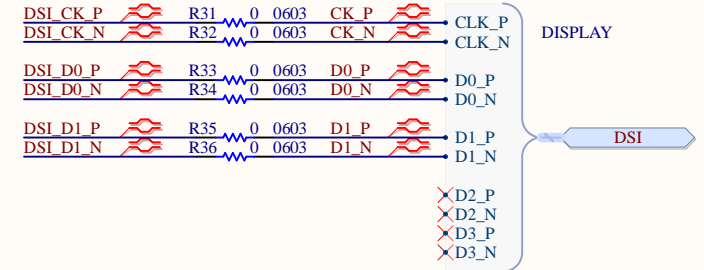
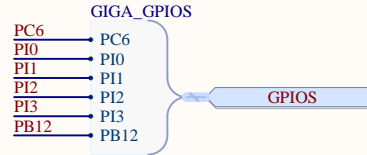
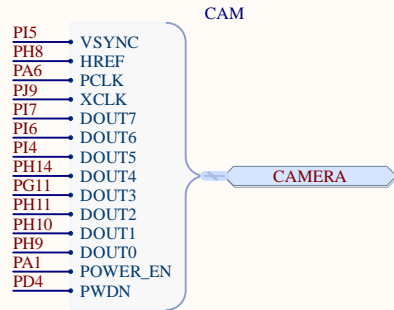
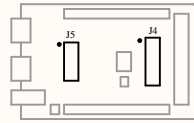
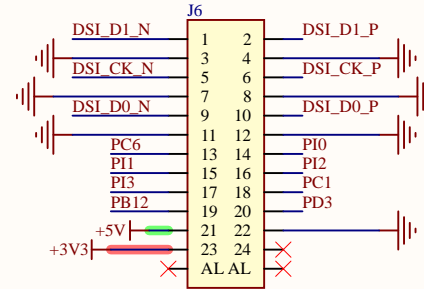
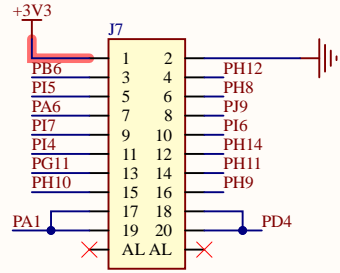
nBLUE is not connected to the GIGA which is able to drive the blue LED only if the I2C LED driver is mounted.

- Fiducial_1
Fiducial mark 1mm
- Fiducial_2
Fiducial mark 1mm
- Fiducial_3
Fiducial mark 1mm
- Fiducial_4
Fiducial mark 1mm
- Fiducial_5
Fiducial mark 1mm


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Title: TOP				
ID: ASX00039		Revision: V0.5		
Date: 8/31/2023	Time: 8:15:44 AM	Sheet 1 of 8		
File: TOP.SchDoc	Author: Silvio Navaretti	RevAuthor: Silvio Navaretti		

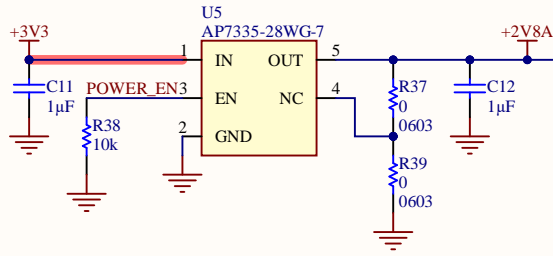
ON GIGA CAMERA SHARES: I2C4 WITH JDIGITAL



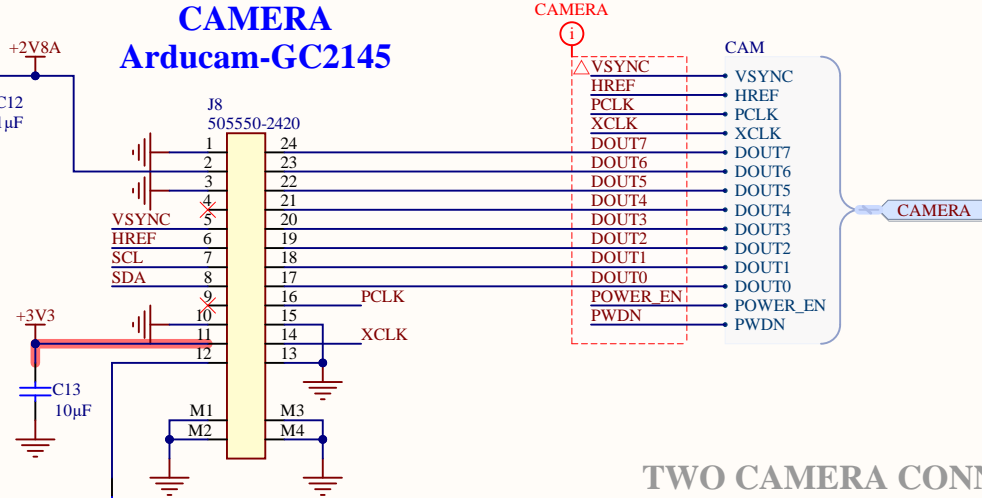
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Title: GIGA HEADERS		 	
ID: ASX00039			
Date: 8/31/2023	Time: 8:15:53 AM	Sheet 2 of 8	
File: GIGA.SchDoc		Author: Silvio Navaretti	
		RevAuthor: Silvio Navaretti	

CAMERA 2V8 LDO



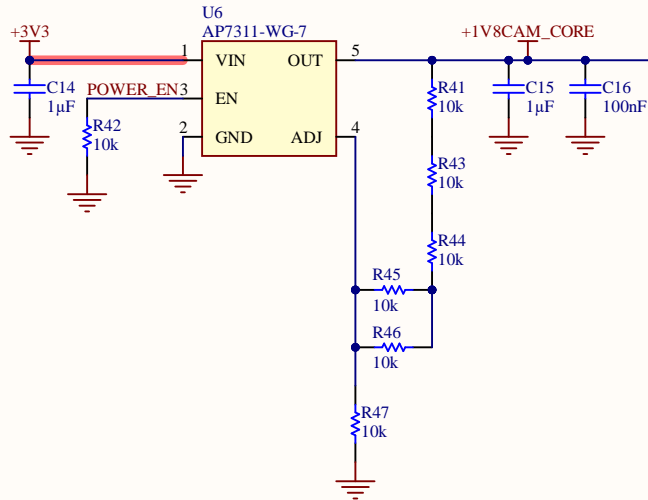
CAMERA Arducam-GC2145



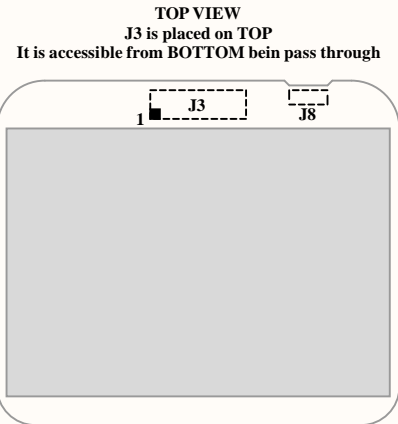
Arducam-GC2145 camera module pinout

CONNECTOR PIN	DESCRIPTION
1	定义
1	AGND
2	AVDD2.8V
3	GND
4	NC
5	FVLD
6	LVLd
7	SCL
8	SDA
9	NC
10	DGND
11	IOVDD1.8V
12	DVDD1.8V
13	DGND
14	MCLK
15	DGND
16	PCLK
17	D0
18	D1
19	D2
20	D3
21	D4
22	D5
23	D6
24	D7

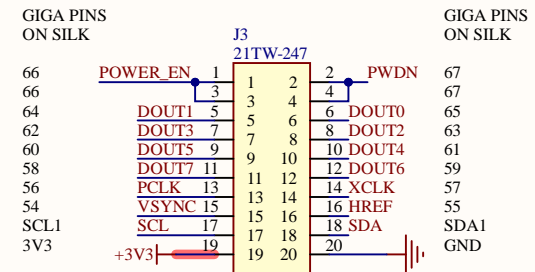
CAMERA 1V8 LDO



**TWO CAMERA CONNECTORS:
FLAT CABLE OR 2.54mm HEADER.
THEY CANNOT BE USED AT THE
SAME TIME**



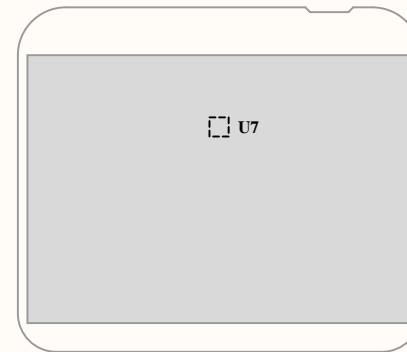
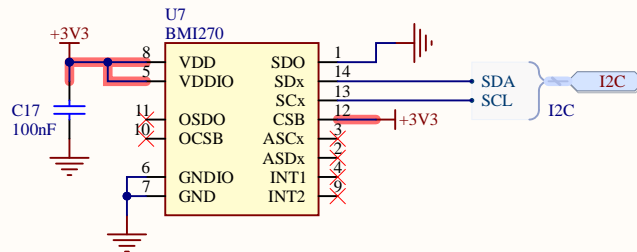
CAMERA 2.54mm header





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Title: CAMERA		Revision: V0.5			
ID: ASX00039	Date: 8/31/2023	Time: 8:16:15 AM	Sheet 5 of 8		
File: CAMERA.SchDoc	Author: Silvio Navaretti		RevAuthor: Silvio Navaretti		

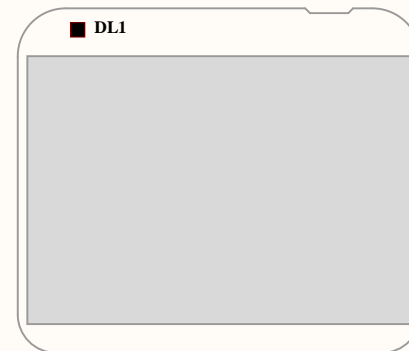
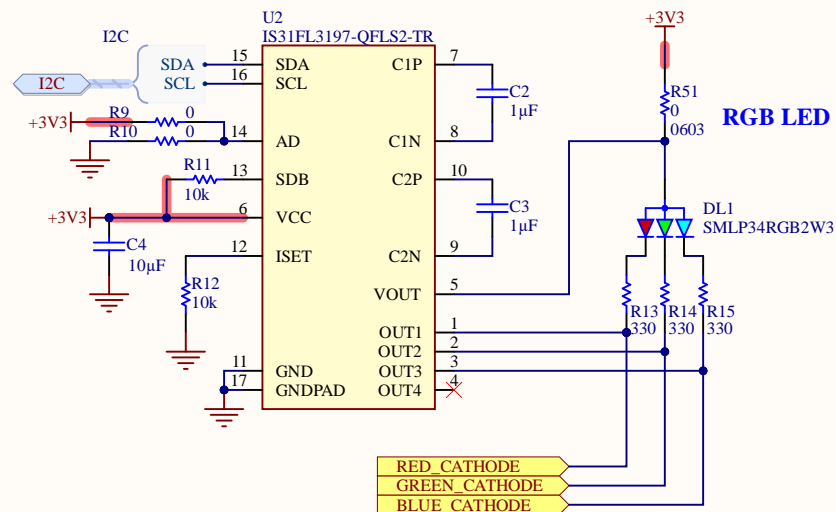
3D ACCELEROMETER 3D GYROSCOPE



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Title: ACCELEROMETER		 	
ID: ASX00039	Revision: V0.5		
Date: 8/31/2023	Time: 8:16:20 AM	Sheet 6 of 8	
File: ACCELEROMETER.SchDoc		Author: Silvio Navaretti	RevAuthor: Silvio Navaretti

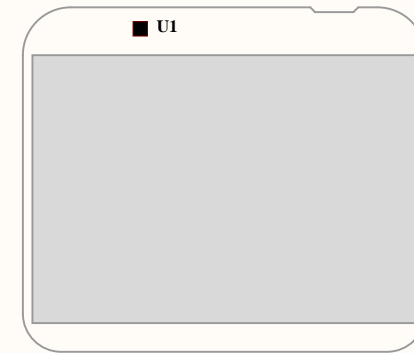
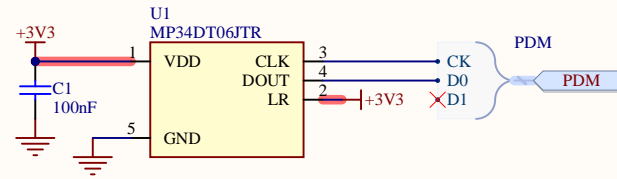
RGB LED DRIVER





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Title: RGB		 	
ID: ASX00039			
Date: 8/31/2023	Time: 8:16:25 AM	Sheet 7 of 8	
File: RGB_LED.SchDoc		Author: Silvio Navaretti	RevAuthor: Silvio Navaretti

MICROPHONE



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Title: MICROPHONE		 	
ID: ASX00039	Version: V0.5		
Date: 8/31/2023	Time: 8:16:30 AM	Sheet: 8 of 8	
File: MICROPHONE.SchDoc	Author: Silvio Navaretti	RevAuthor: Silvio Navaretti	