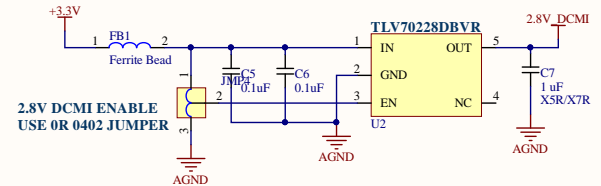
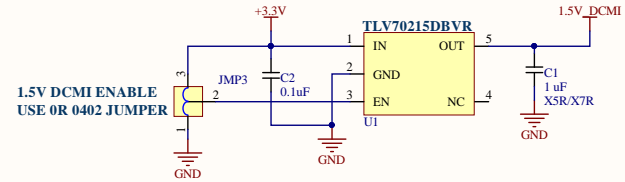
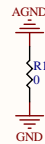
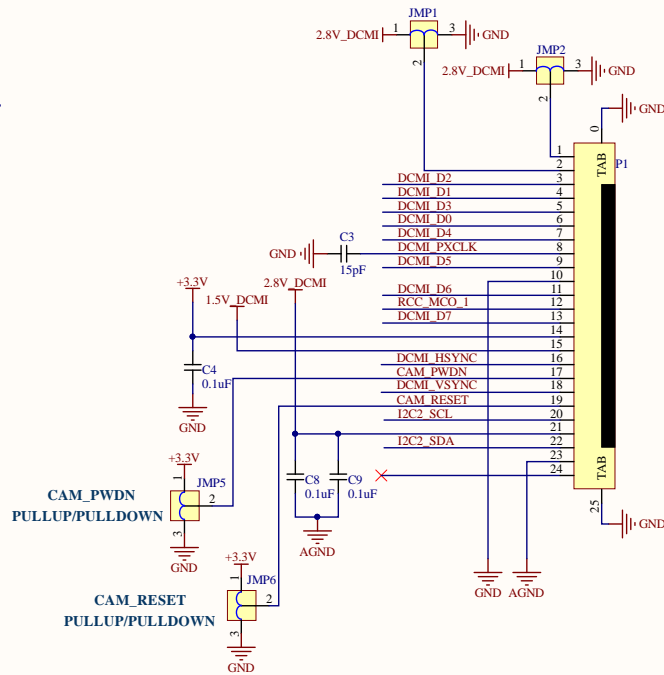
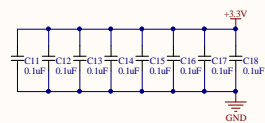


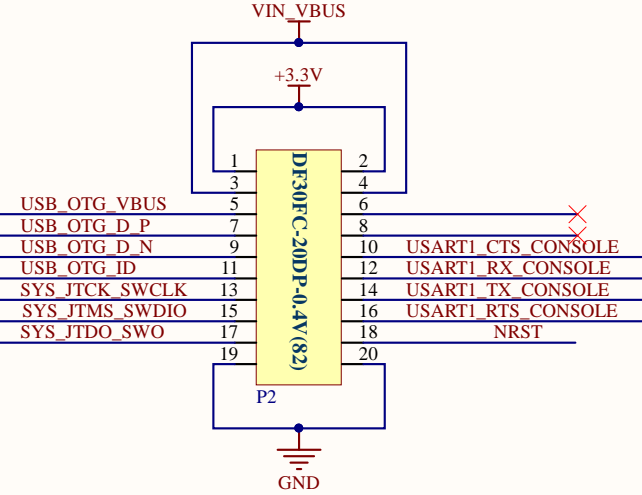
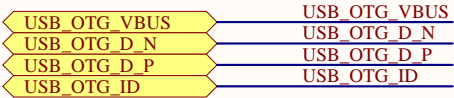
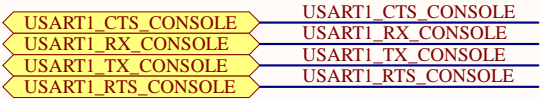
DCMI_D[0..7]	DCMI_D[0..7]
DCMI_VSYNC	DCMI_VSYNC
DCMI_HSYNC	DCMI_HSYNC
DCMI_PXCLK	DCMI_PXCLK
RCC_MCO_1	RCC_MCO_1
I2C2_SCL	I2C2_SCL
I2C2_SDA	I2C2_SDA
CAM_RESET	CAM_RESET
CAM_PWDN	CAM_PWDN



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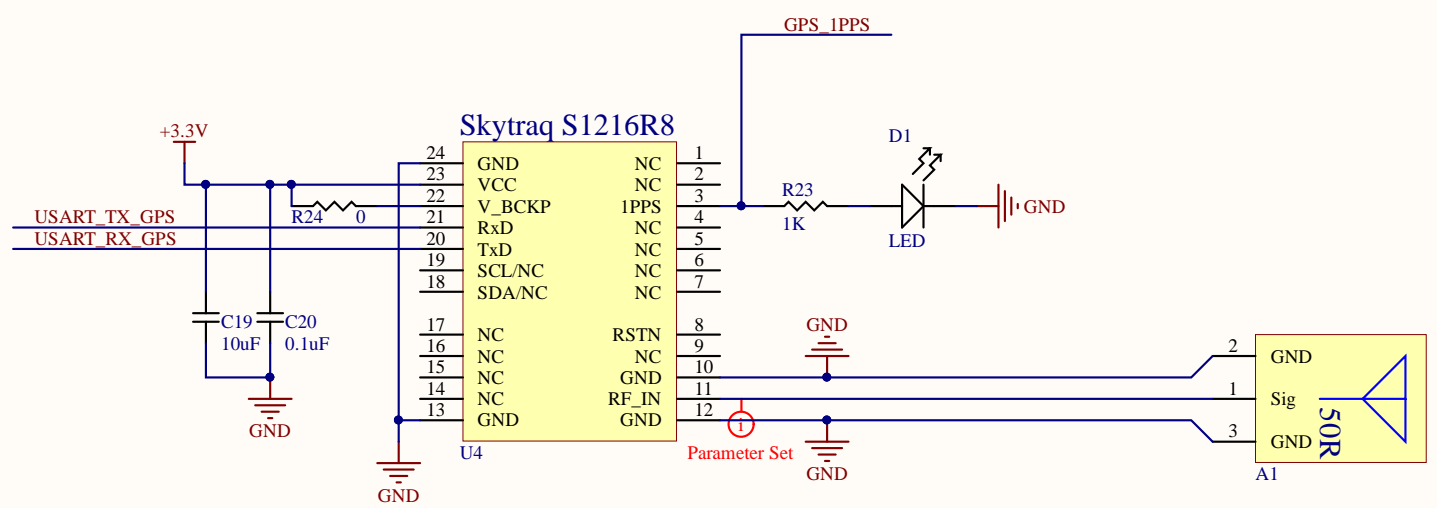


4GB - IS21ES04G-JCLI  
8GB - IS21ES08G-JCLI (default)  
16GB - IS21ES16G-JCLI  
32GB - IS21ES32G-JCLI



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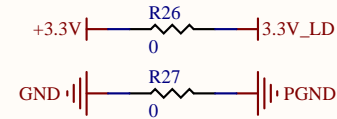
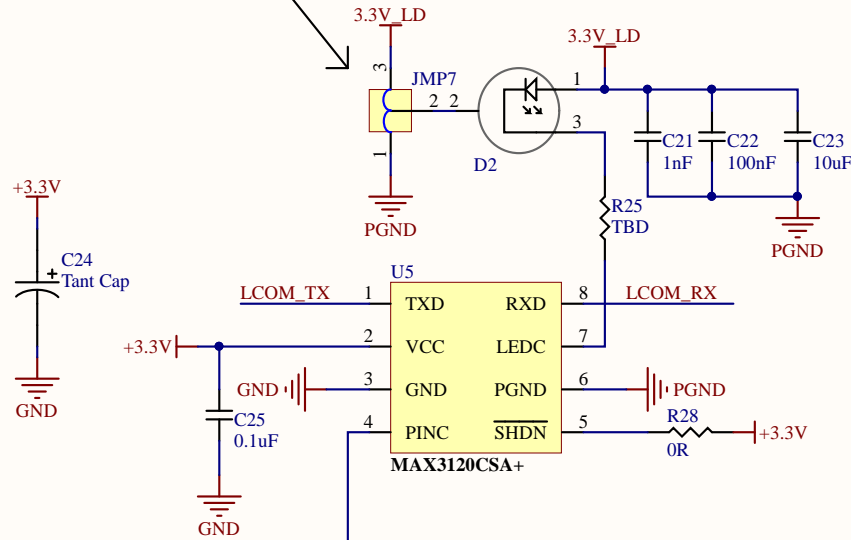
USART_TX_GPS	USART_TX_GPS
USART_RX_GPS	USART_RX_GPS
GPS_1PPS	GPS_1PPS



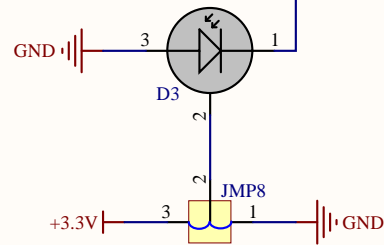
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LCOM\_TX  
LCOM\_RX

### LASER Diode Case Connection



### Photodiode Case Connection

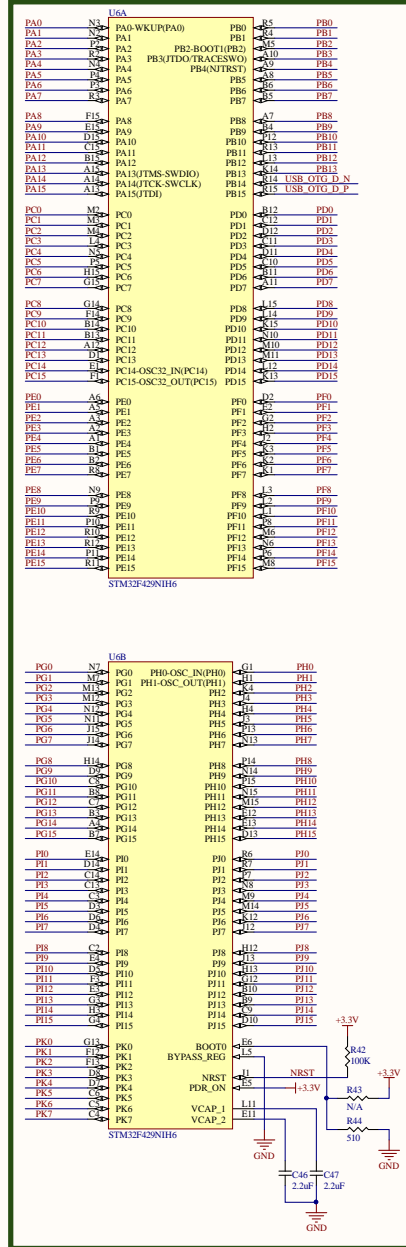


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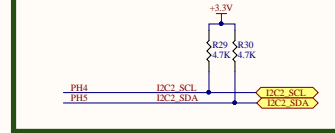
# MCU



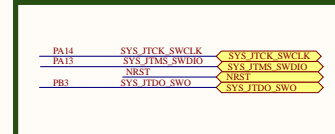
# VIN LEVEL SENSING



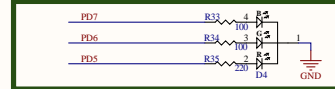
# I2C2 (CAM, IMU, TMP, Ambient Light, Header)



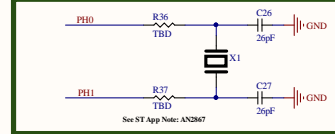
# PROGRAMMING HEADER



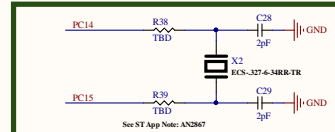
# RGB LED



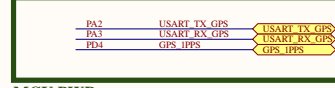
# 8.0 MHz



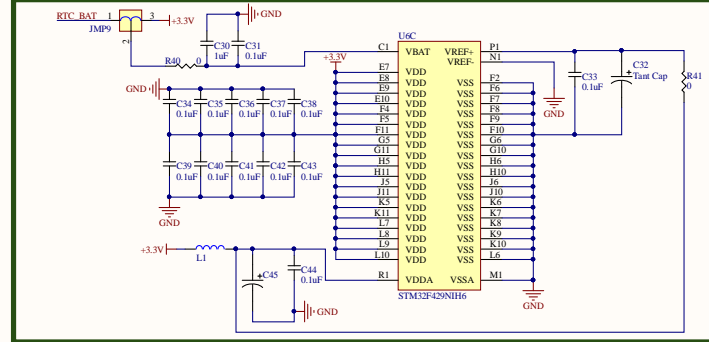
# 32.768 KHz



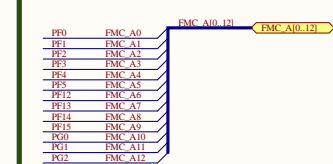
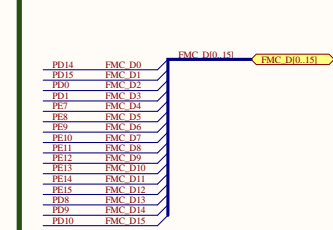
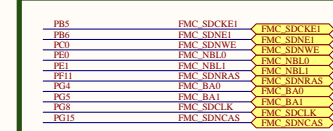
# GPS



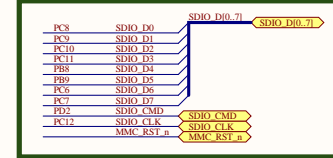
# MCU PWR



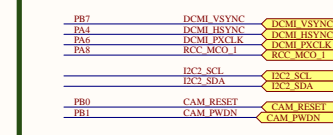
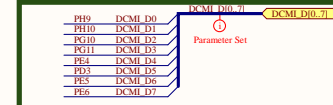
# SDRAM



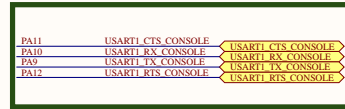
# EMMC



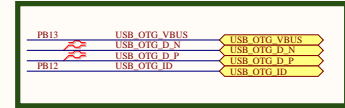
# CAMERA



# CONSOLE



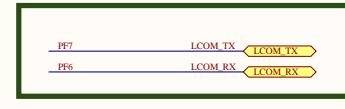
# USB



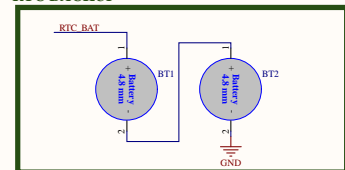
# RF COMMS

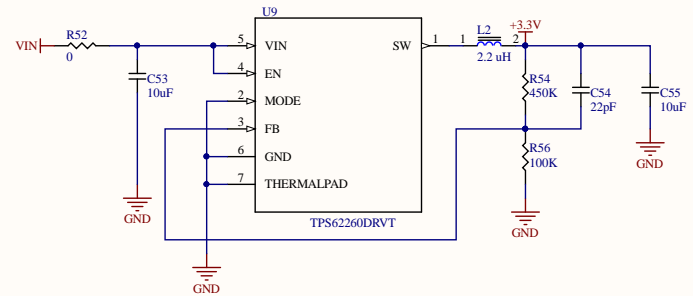
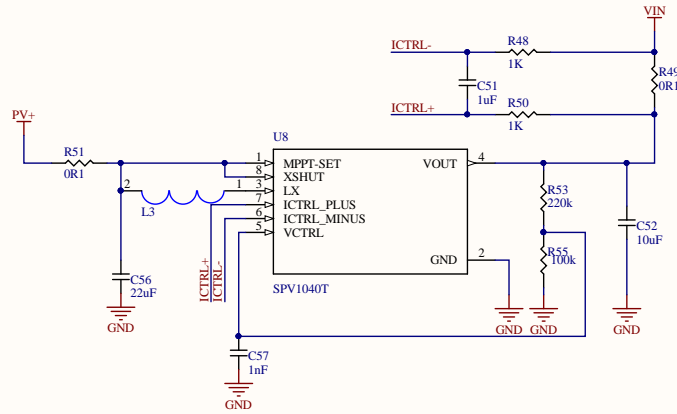
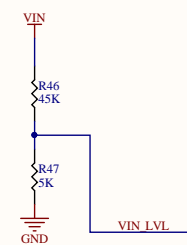
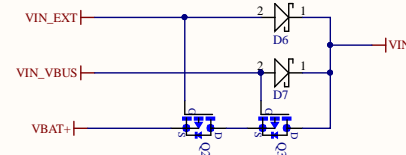
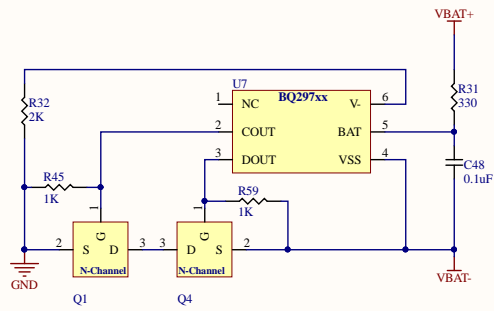
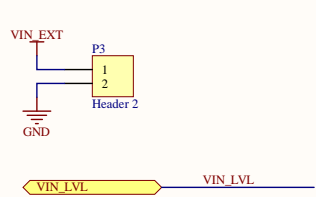


# LASER COMMS



# RTC BACKUP

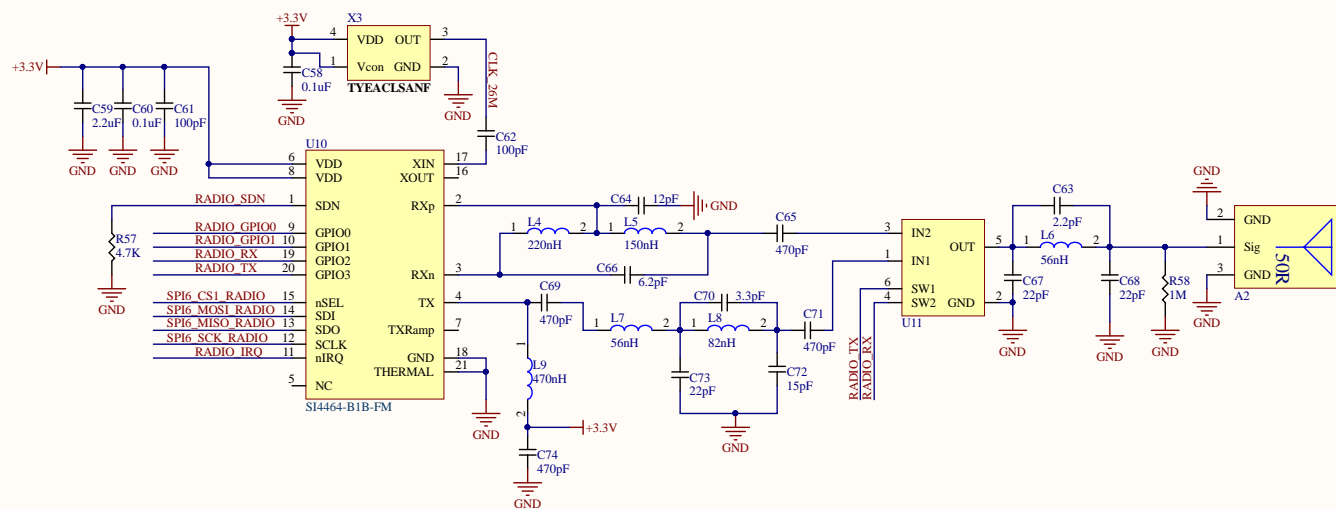




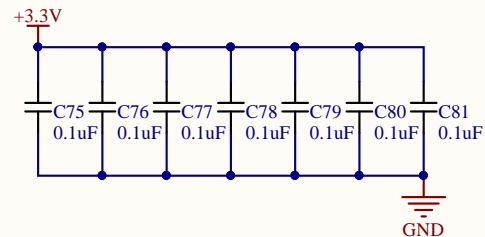
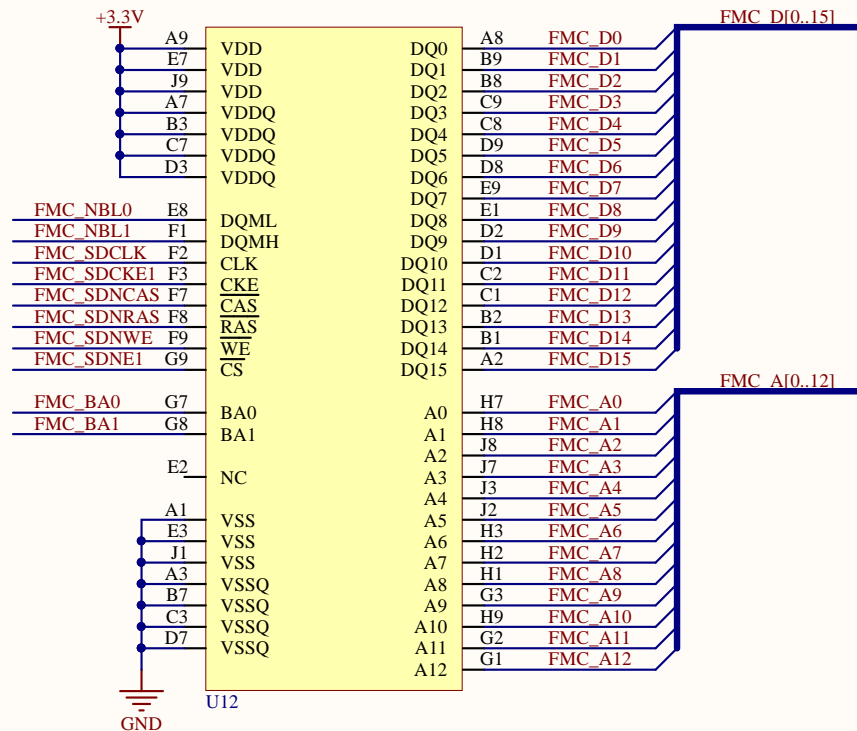
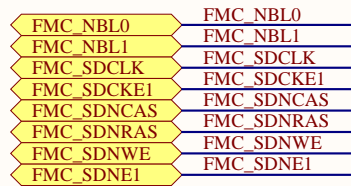
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RADIO_SDN	RADIO_SDN
RADIO_GPIO0	RADIO_GPIO0
RADIO_GPIO1	RADIO_GPIO1
SPI6_CS1_RADIO	SPI6_CS1_RADIO
SPI6_MOSI_RADIO	SPI6_MOSI_RADIO
SPI6_MISO_RADIO	SPI6_MISO_RADIO
SPI6_SCK_RADIO	SPI6_SCK_RADIO
RADIO_IRQ	RADIO_IRQ



Title		
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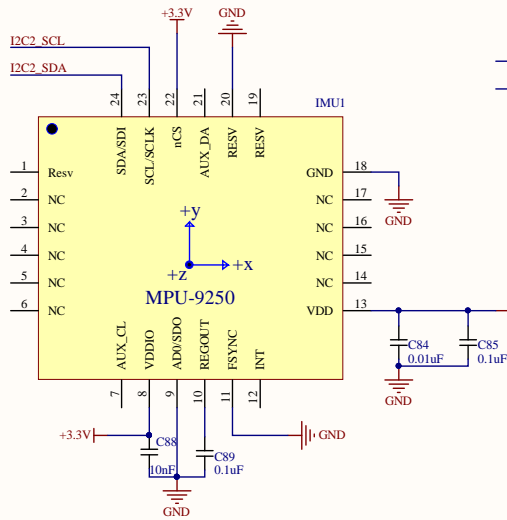


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I2C2\_SCL  
I2C2\_SDA

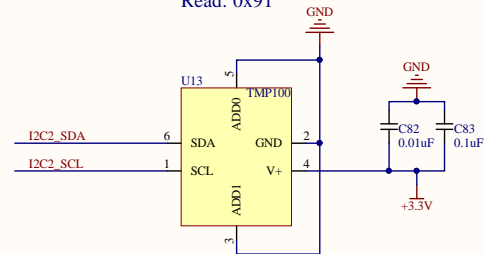
### IMU0 I2C ADDR:

7'b1101000  
Write: 0xD0  
Read: 0xD1



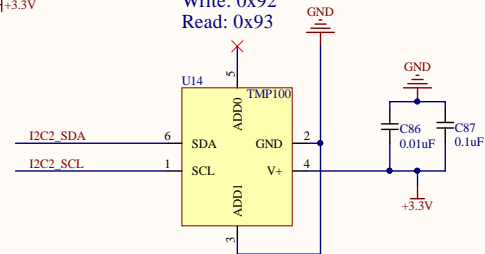
### TMP0 I2C ADDR:

7'b1001000  
Write: 0x90  
Read: 0x91



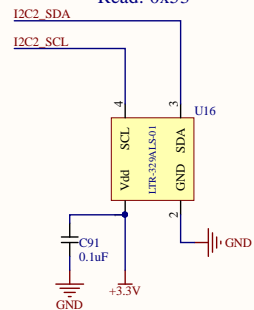
### TMP1 I2C ADDR:

7'b1001001  
Write: 0x92  
Read: 0x93



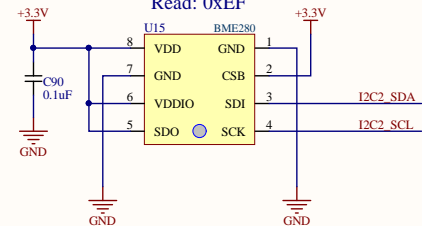
### AMB LIGHT I2C ADDR:

7'b0101001  
Write: 0x52  
Read: 0x53



### BME I2C ADDR:

7'b1110111  
Write: 0xEE  
Read: 0xEF



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