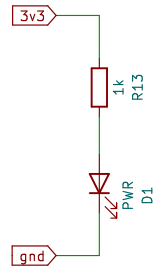
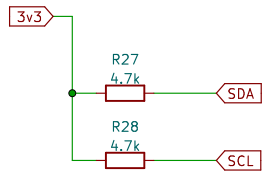


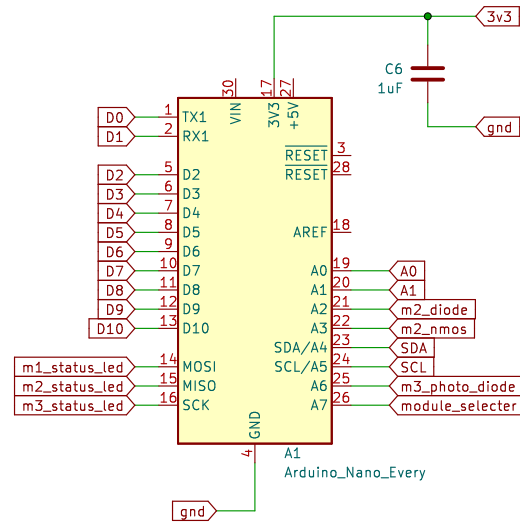
## power LED



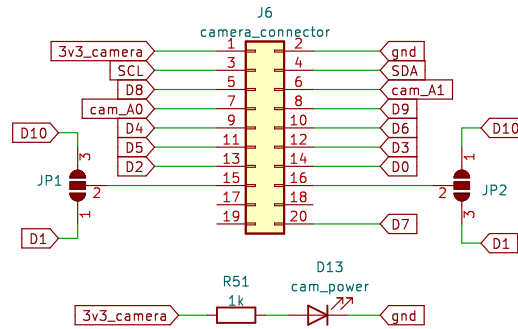
## i2c pull-up



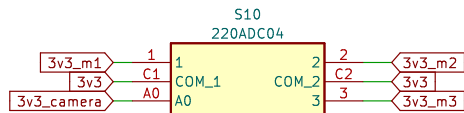
## arduino nano 33 ble



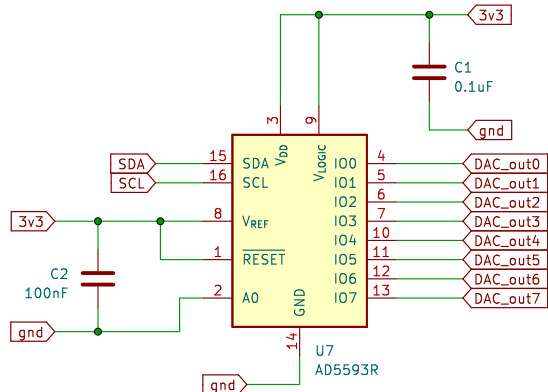
## camera module



## power select

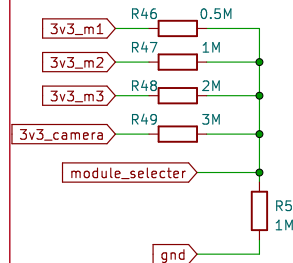


## DAC 8-channel



## Mounting holes

- H1 MountingHole
- H2 MountingHole
- H3 MountingHole
- H4 MountingHole



## Module 1

File: ee105\_devboard\_module1.kicad\_sch

## Module 2

File: ee105\_devboard\_module2.kicad\_sch

## Module 3

File: ee105\_devboard\_module3.kicad\_sch

EE105 devboard  
Designed by:  
Dolendra Vikas Addepalli

### EE105\_devboard

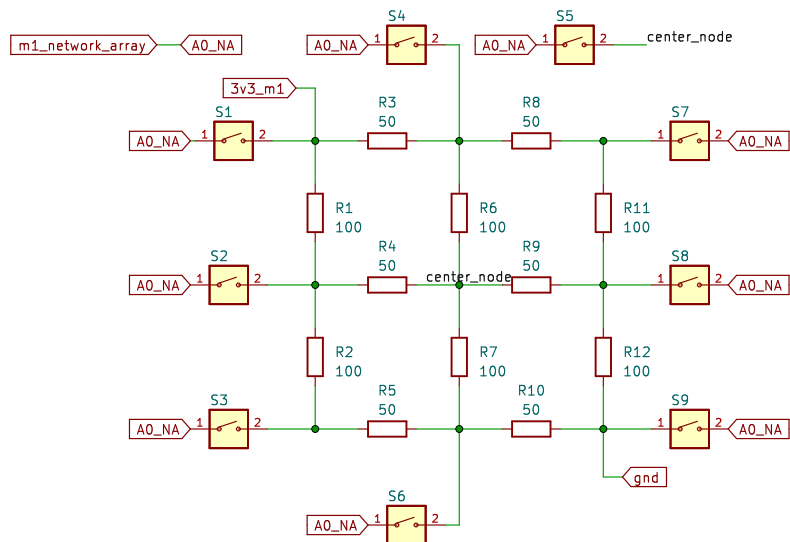
Sheet: /  
File: EE105\_devboard\_v2.kicad\_sch

### Title: Module 1

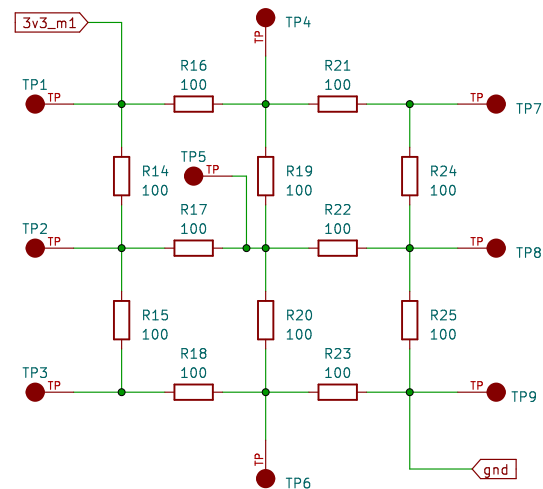
Size: A4 Date: 2024-07-25  
KiCad E.D.A. kicad 7.0.2

Rev: rev1.1  
Id: 1/4

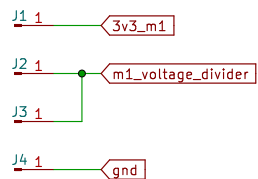
## network array with switches



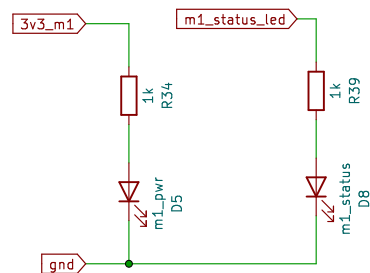
## network array with test points



## voltage divider



## module1 power and status LEDs



Designed by:  
Dolendra Vikas Addepalli

Sheet: /Module 1/  
File: ee105\_devboard\_module1.kicad\_sch

### Title:

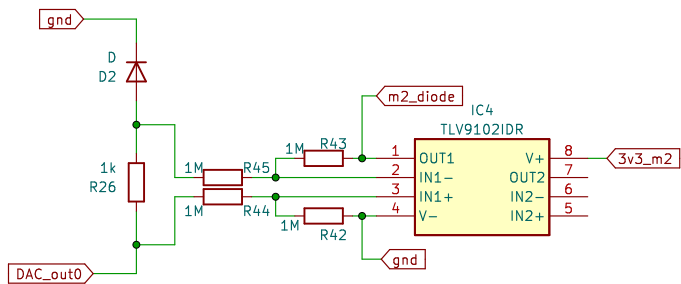
Size: A4  
KiCad E.D.A. kicad 7.0.2

Date: 2024-07-25

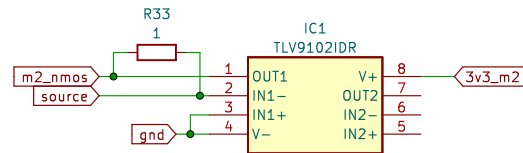
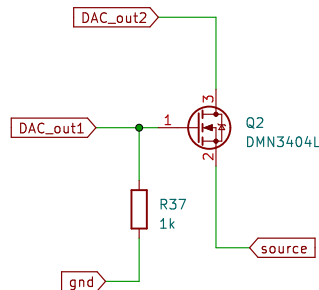
Rev: rev1.1

Id: 2/4

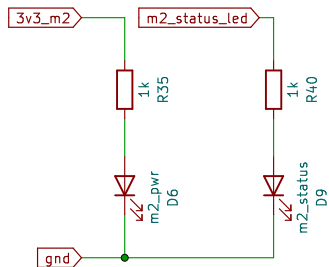
diode VD vs ID curve



nmos Vds vs Id (TIA)



module2 power and status LEDs



Designed by:  
Dolendra Vikas Addepalli

Sheet: /Module 2/  
File: ee105\_devboard\_module2.kicad\_sch

Title:

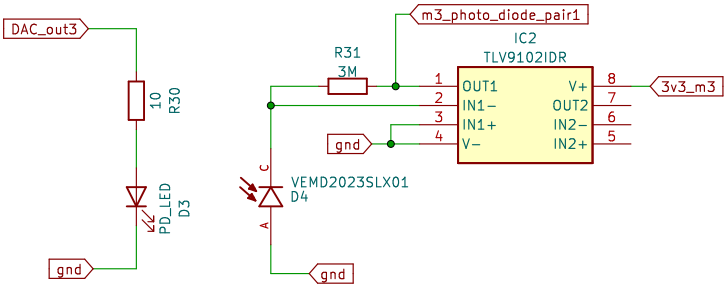
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Date: 2024-07-25

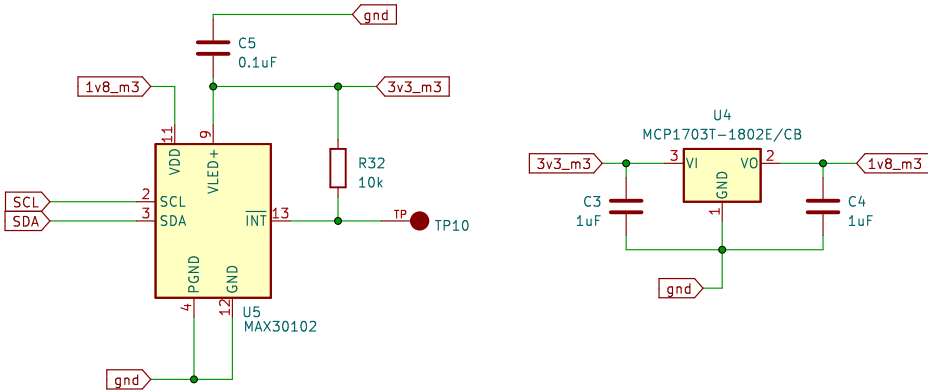
Rev: rev1.1

Id: 3/4

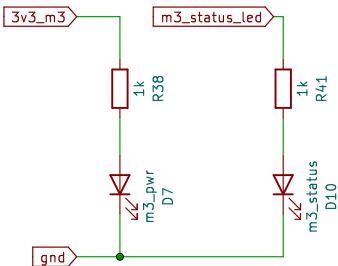
LED & photodiode pair 1



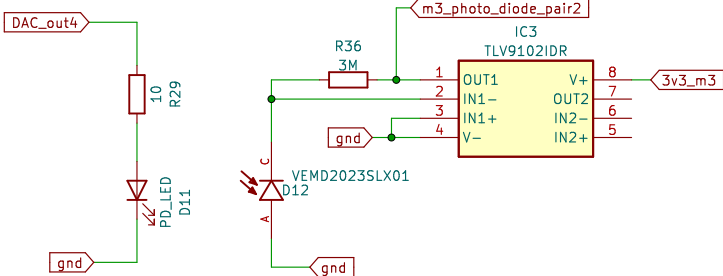
PPG



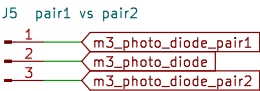
module3 power and status LEDs



LED & photodiode pair 2



LED & photodiode selector



Designed by:  
Dolendra Vikas Addepalli

Sheet: /Module 3/  
File: ee105\_devboard\_module3.kicad\_sch

Title:

Size: A4  
KiCad E.D.A. kicad 7.0.2

Date: 2024-07-25

Rev: rev1.1

Id: 4/4