

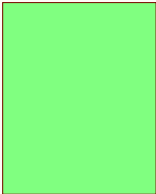
# SAM Carrier


Variant: [No Variations]

CARRIER  
carrier.SchDoc



MECHANICAL  
mechanical.SchDoc



Title <b><i>SAM Carrier - Cover</i></b>			GPA Robotics	
Size: <b>A4</b>	Number: <b>1</b>	Revision: <b>1</b>		
Date: <b>2021-09-14</b>	Time: <b>00:15:03</b>	Sheet <b>1</b> of <b>12</b>		
Repo: <b><a href="https://github.com/Atmelfan/pcb-sam-carrier">https://github.com/Atmelfan/pcb-sam-carrier</a></b>				

DCIN  
dcin.SchDocPOWER  
powersupplies.SchDoc

5.0V, 3.3V, 1.8V

PGOOD  
RESET

SYS\_RST

CAMERAS  
cameras.SchDocNX  
jetson\_nx\_io.SchDocAUX\_IO  
aux\_io.SchDocCAM1  
CAM1\_MCLK  
CAM1\_PWDN  
CAM0  
CAM0\_PWDN  
CAM0\_MCLK  
CAM\_I2C  
MUX\_SEL  
I2S  
I2CCSI2  
CAM1\_PWDN  
CAM1\_MCLK  
CSI0  
CAM0\_MCLK  
CAM0\_PWDN  
CAM\_I2C  
CAM\_MUX\_SEL  
I2S0FAN\_PWM  
FAN\_TACH  
SHD\_REQ  
POWER\_ENI2S  
PWM  
TACH  
SHUTDOWN\_REQ  
POWER\_ENM2\_KEY\_E  
m2\_wifi.SchDoc

USB

SERIAL  
M2E\_WAKE

I2S

PCIE  
PCIE\_WAKEI2C  
M2E\_ALERTBT\_M2\_EN  
WIFI\_M2\_EN

M2E\_SUSCLK

USB2

UART0  
BT\_M2\_WAKE

I2S1

PCIE0  
PCIE\_WAKEI2C2  
M2E\_ALERTBT\_M2\_EN  
WIFI\_M2\_EN

SUSCLK\_32KHZ

USBSS

USB\_VBUS\_DET  
USB0GBE\_MDI  
GBE\_LINK  
GBE\_ACTGBE\_MDI  
GBE\_LINK  
GBE\_ACT

I2C1

UART1

SPI0\_CS1  
SPI1\_CS0  
SPI1  
SPI0\_CS0  
SPI1\_CS1  
SPI0

UART2

MOD\_SLEEP  
PWR\_LED\_CTRLREAR\_IO  
rear\_io.SchDocUSB3\_EN\_PWR  
USB3USB2\_VBUS\_DET  
USB2GBE\_MDI  
GBE\_LINK  
GBE\_ACTGBE\_MDI  
GBE\_LINK  
GBE\_ACTSERVOS\_RIGHT  
servos.SchDocI2C  
ENSERVOS\_LEFT  
servos.SchDocI2C  
ENIMU  
imu.SchDocI2C  
INT

Power LEDs

VSYS\_5V0

R57  
10KD9  
GREEN

GND

VSYS\_3V3

R52  
10KD8  
RED

GND

VSYS\_1V8

R56  
10KQ11  
DMN26D0UT

GND

R53  
0RR54  
0R

ID I2C

MOD\_SLEEP

PWR\_LED\_CTRL

Title **SAM Carrier -**

GPA Robotics

Size: A4

Number:9

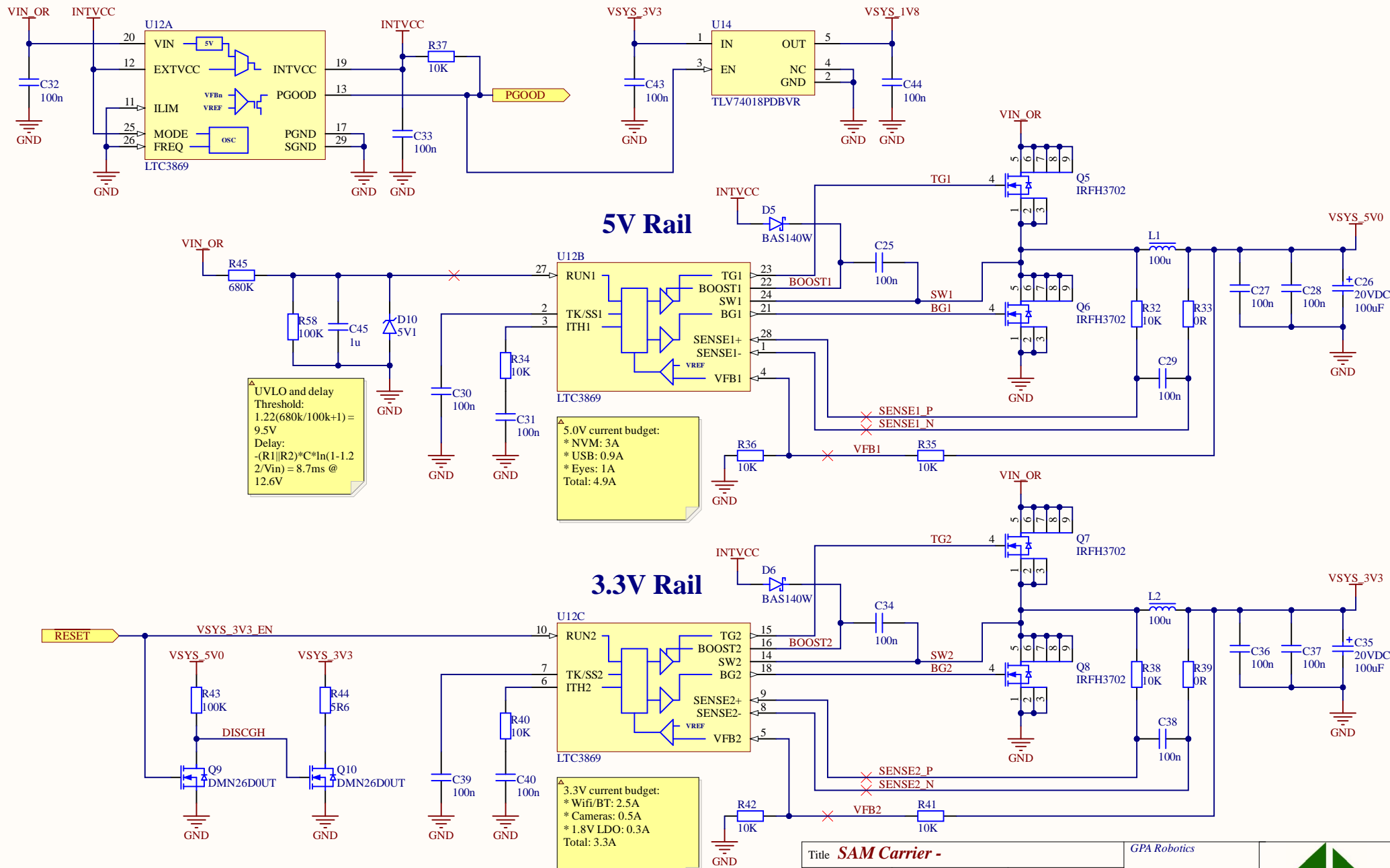
Revision:1

Date: 2021-09-14

Time: 00:15:03

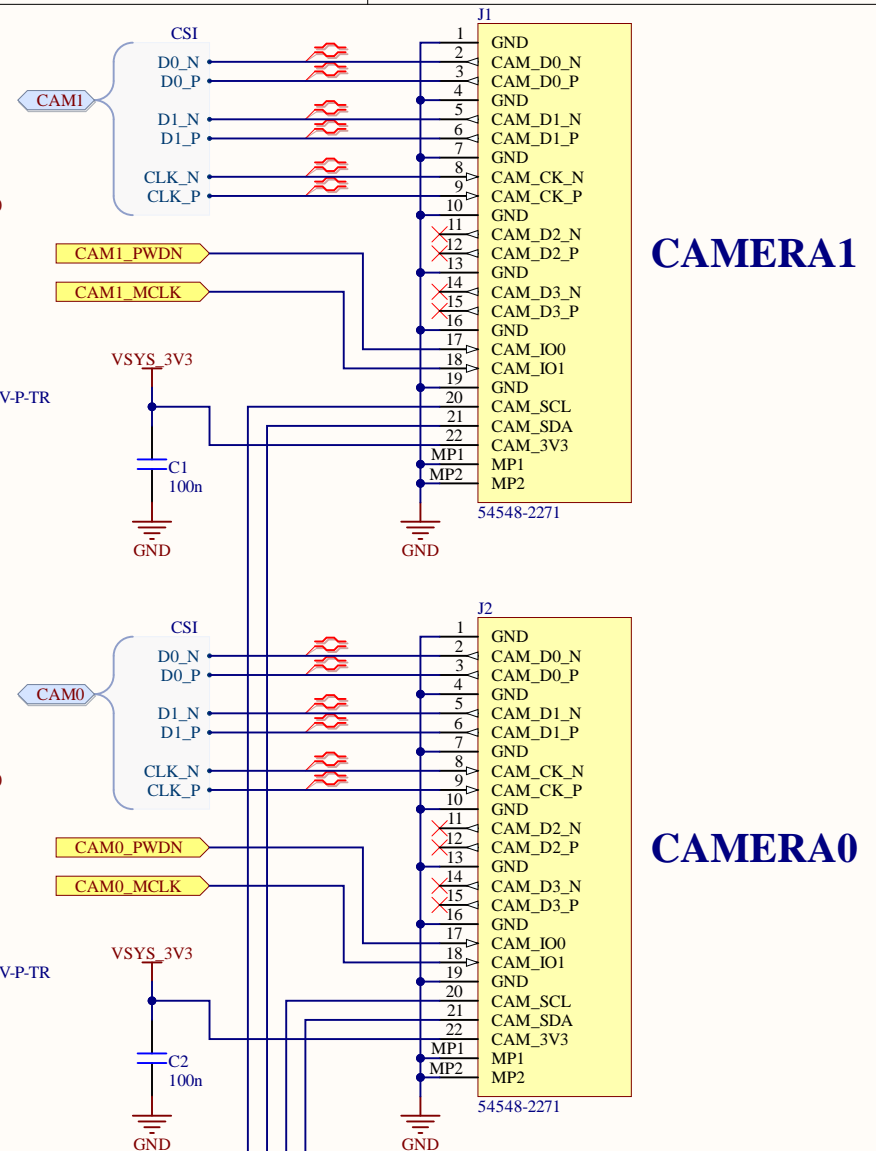
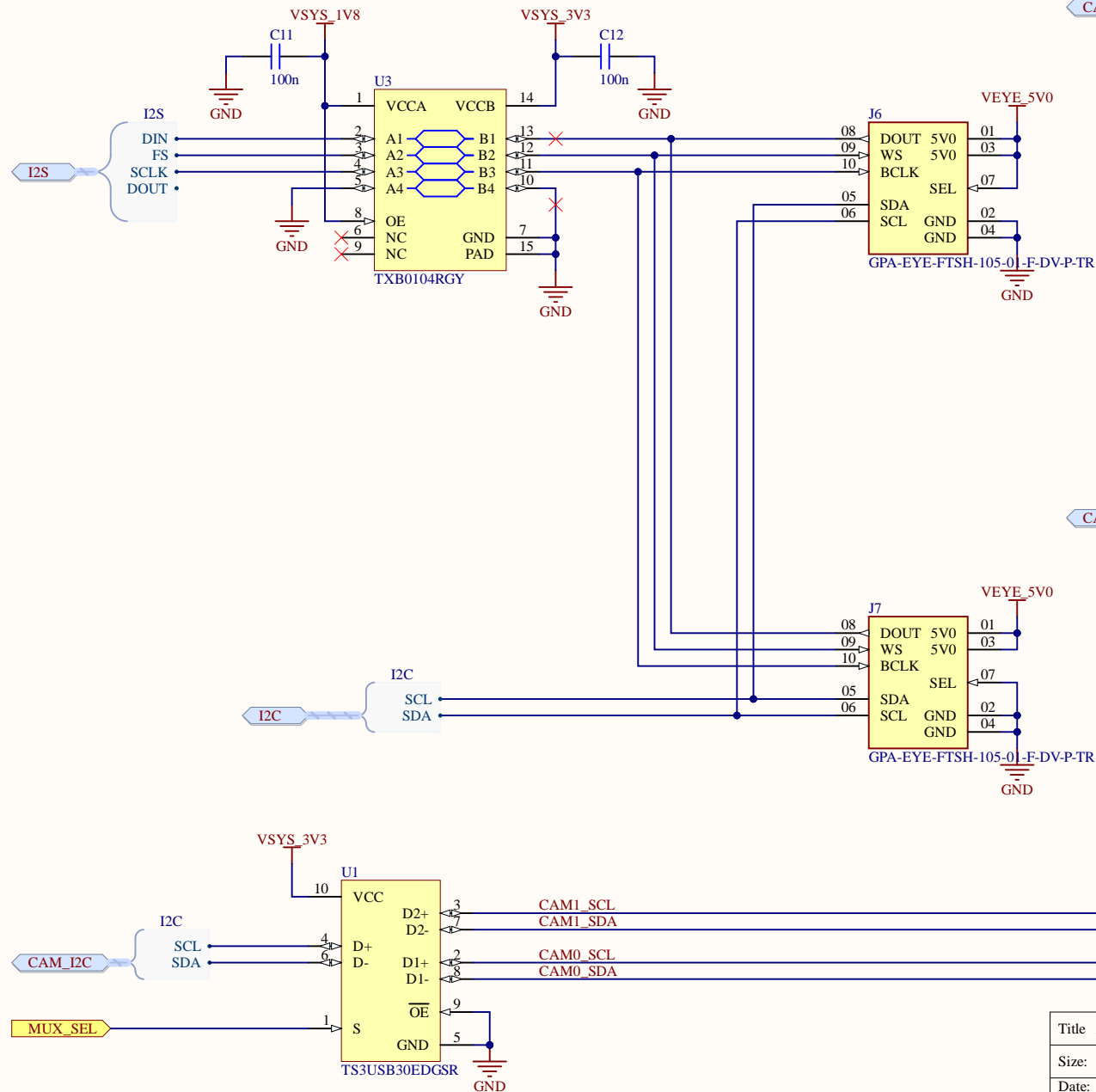
Sheet2 of 12

Repo: <https://github.com/Atmelfan/pcb-sam-carrier>





# I2S Microphone input



Title **SAM Carrier - Front cameras**

GPA Robotics

Size: **A4**

Number: **4**

Revision: **1**

Date: **2021-09-14**


Time: **00:15:03**

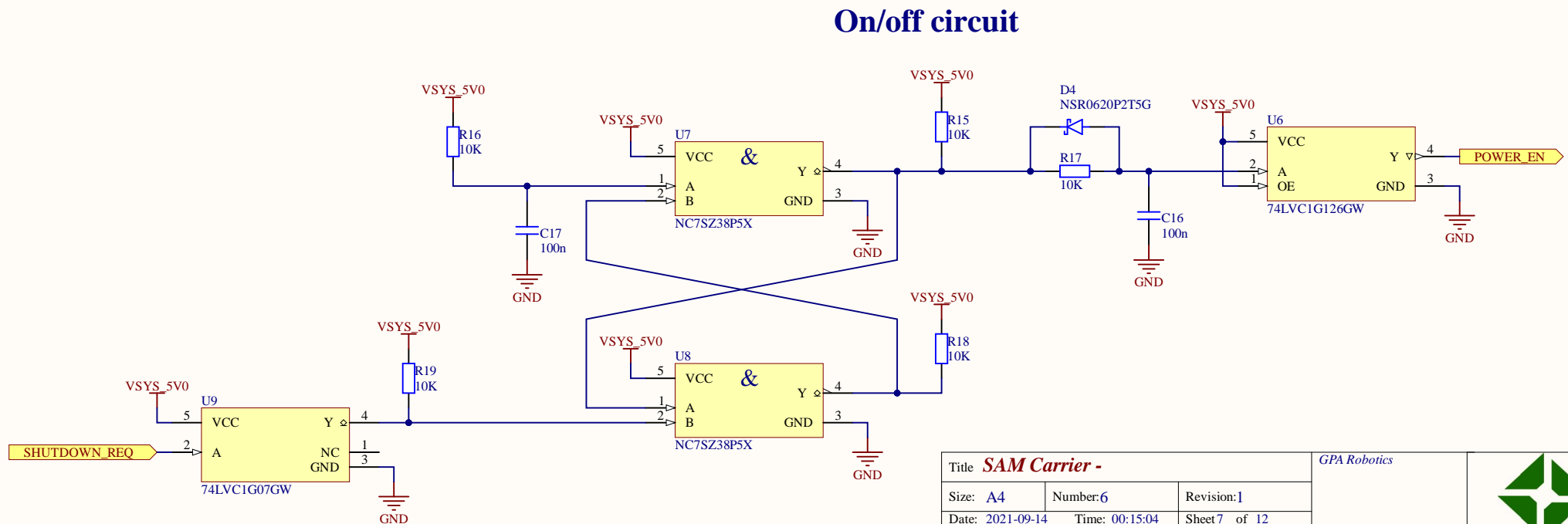
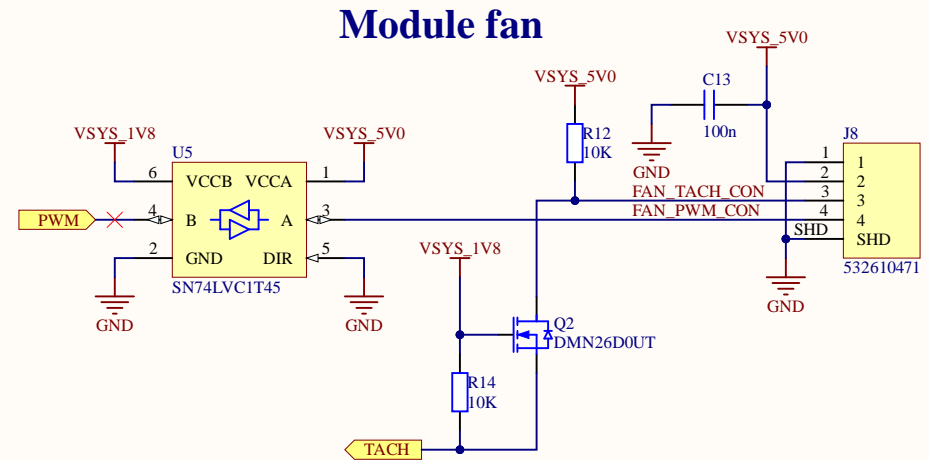
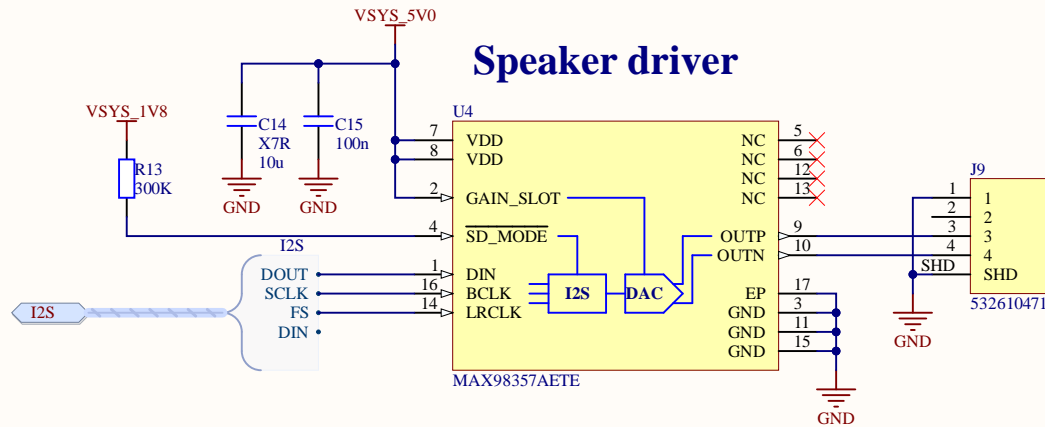
Sheet **5** of **12**

Repo: <https://github.com/Atmelfan/pcb-sam-carrier>

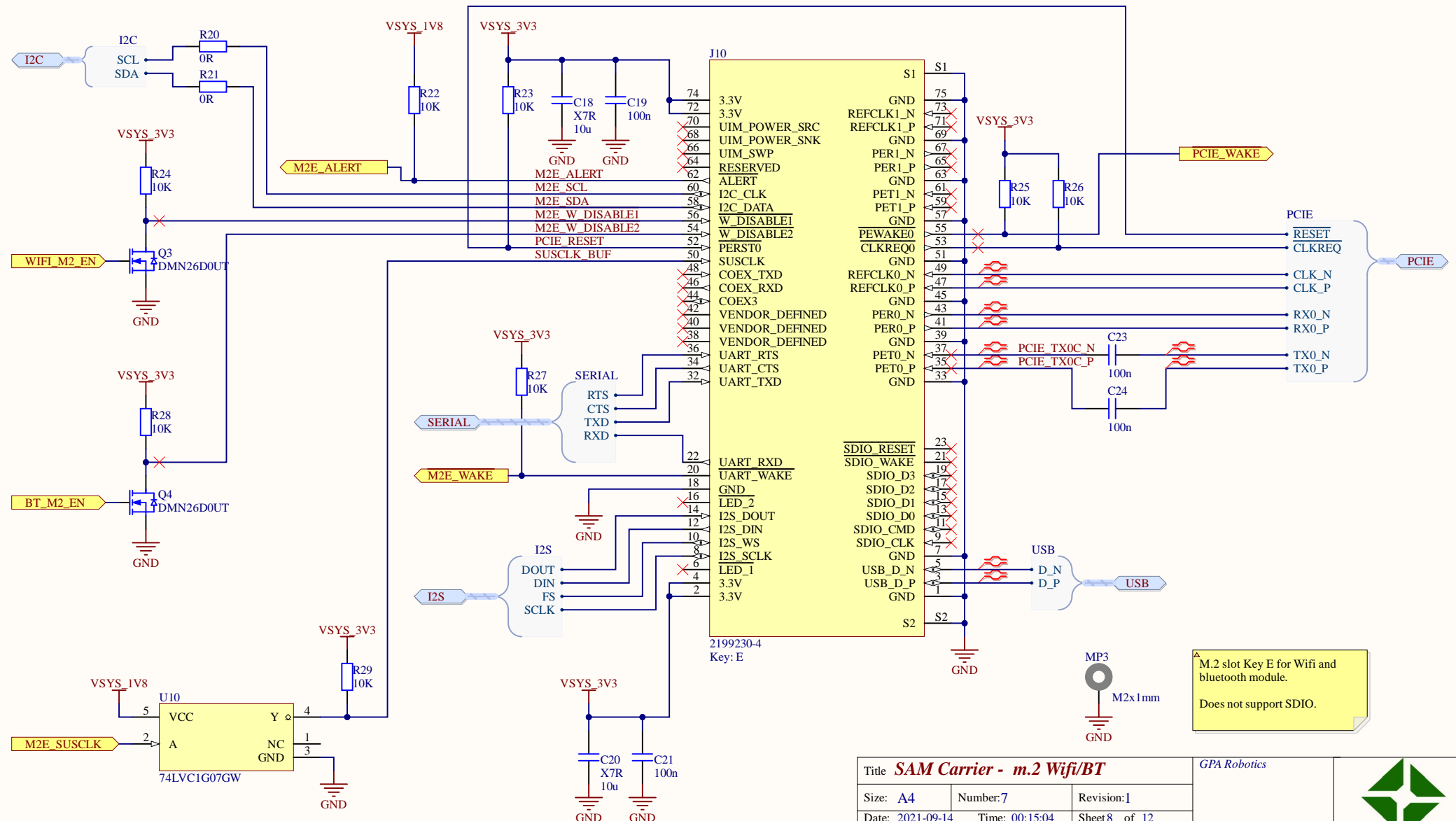




<p><i>GPA Robotics</i></p>	
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## M.2 WIFI/Bluetooth Module



Title	<b><i>SAM Carrier - m.2 Wifi/BT</i></b>
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	<i>GPA Robotics</i>
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Size: A4

Number: 7

Revision: 1

Date: 2021-09-14

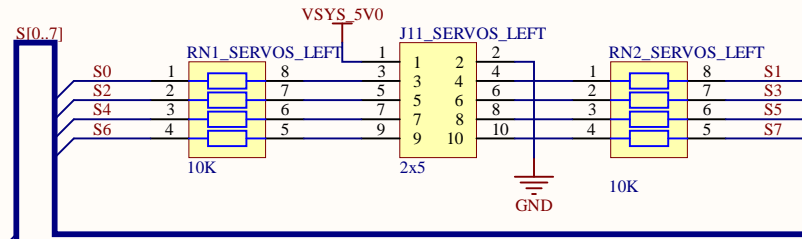
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Sheet 8 of 12

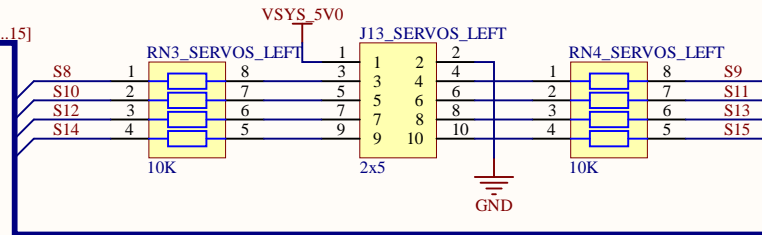
Repo: <https://github.com/Atmelfan/pcb-sam-carrier>



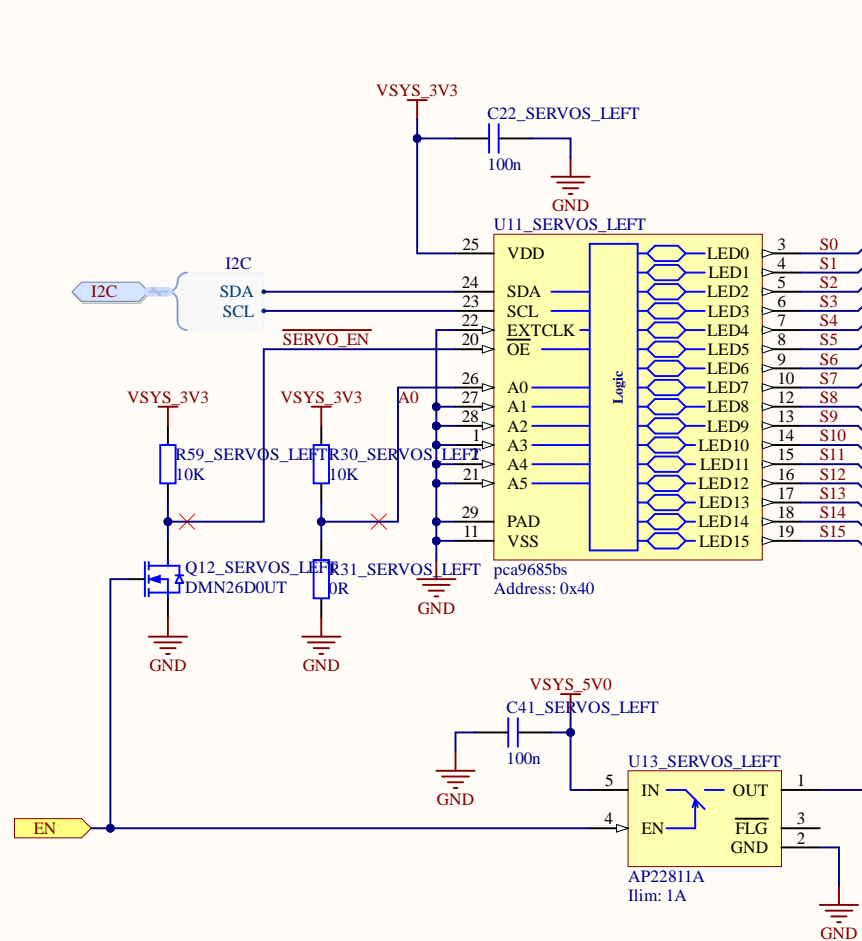
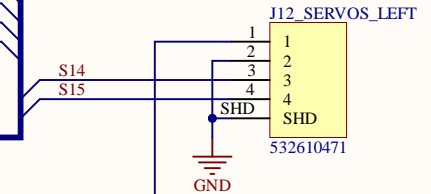
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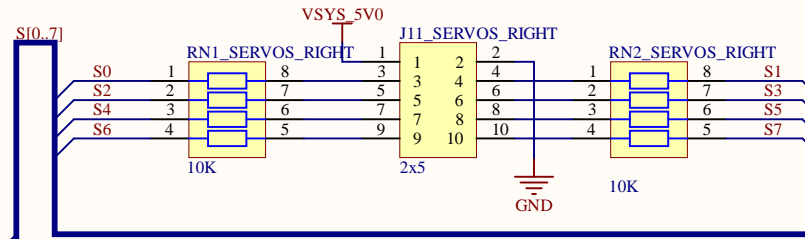
## SERVO headers



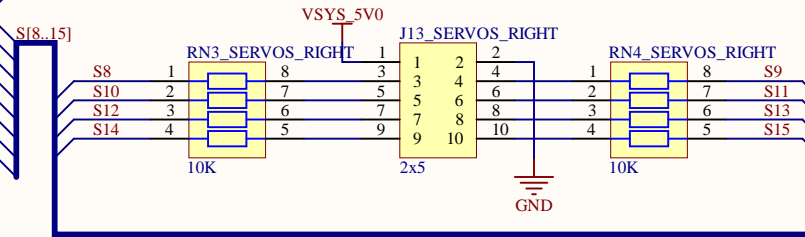
## Eye servos



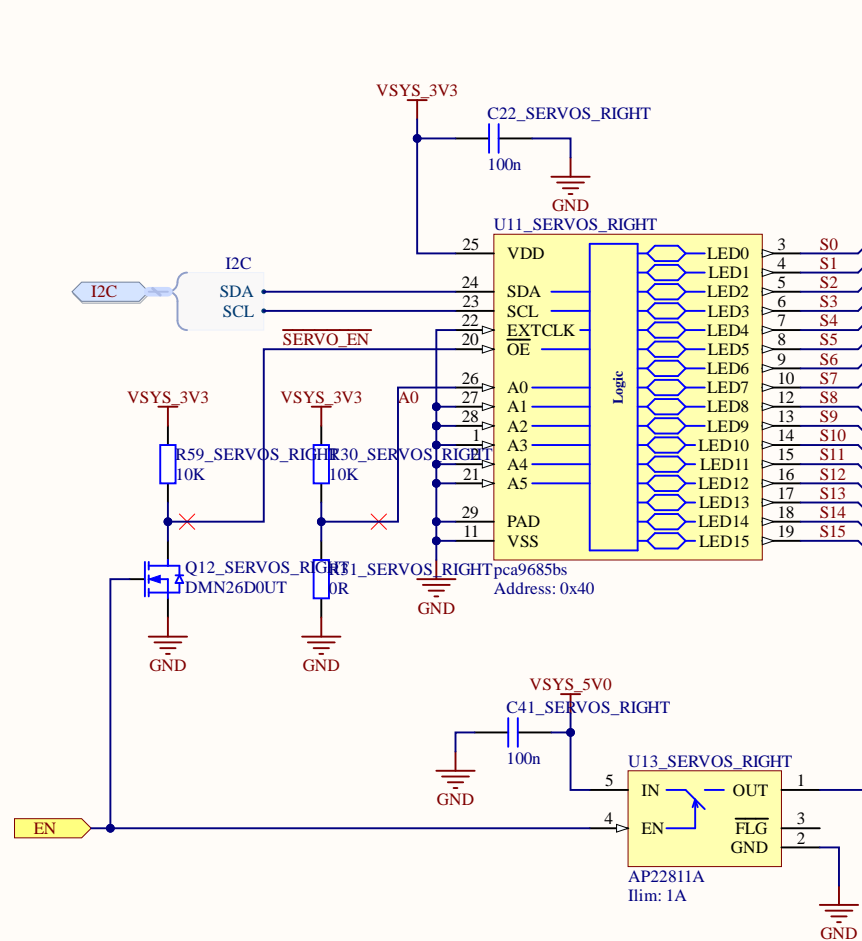
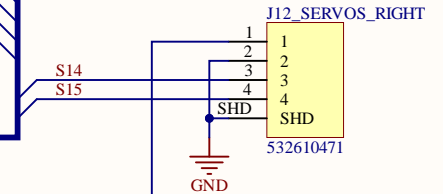
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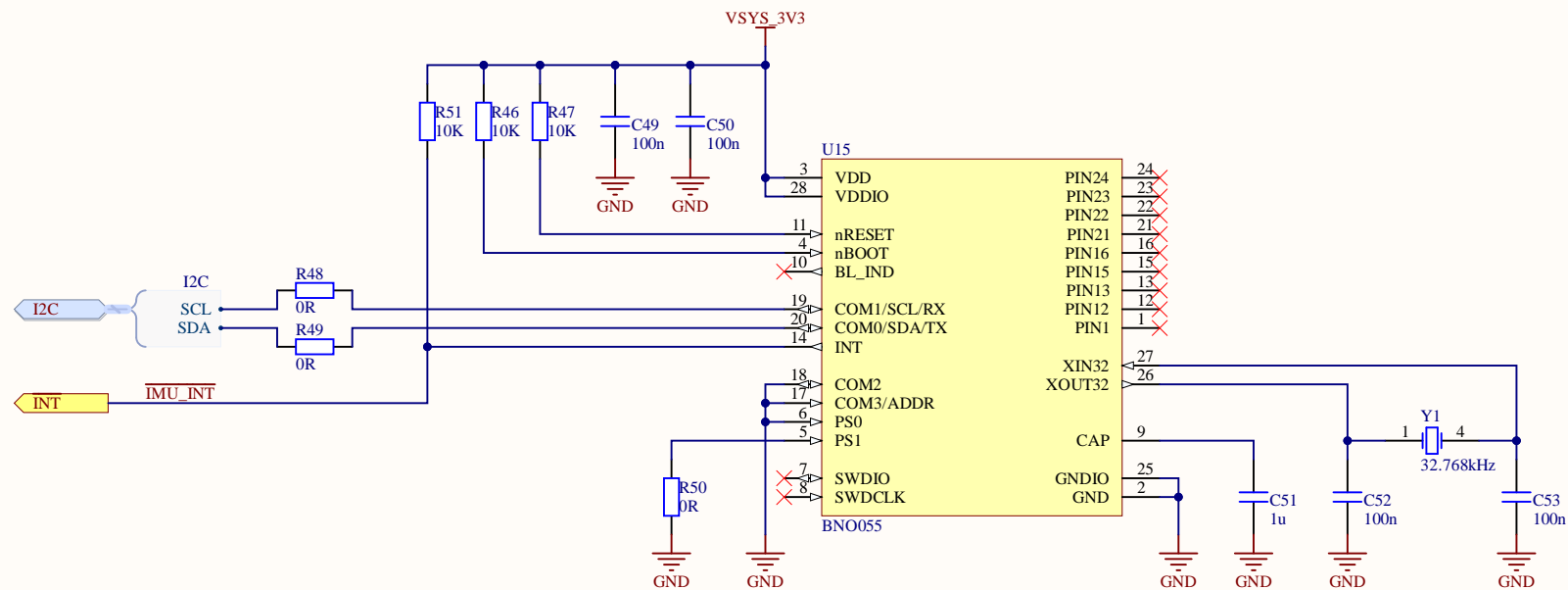


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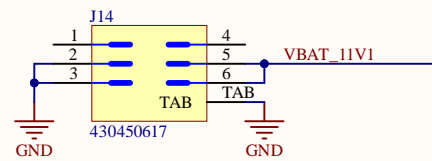


## Eye servos





# Battery Input



# DC Input

Mounting holes

