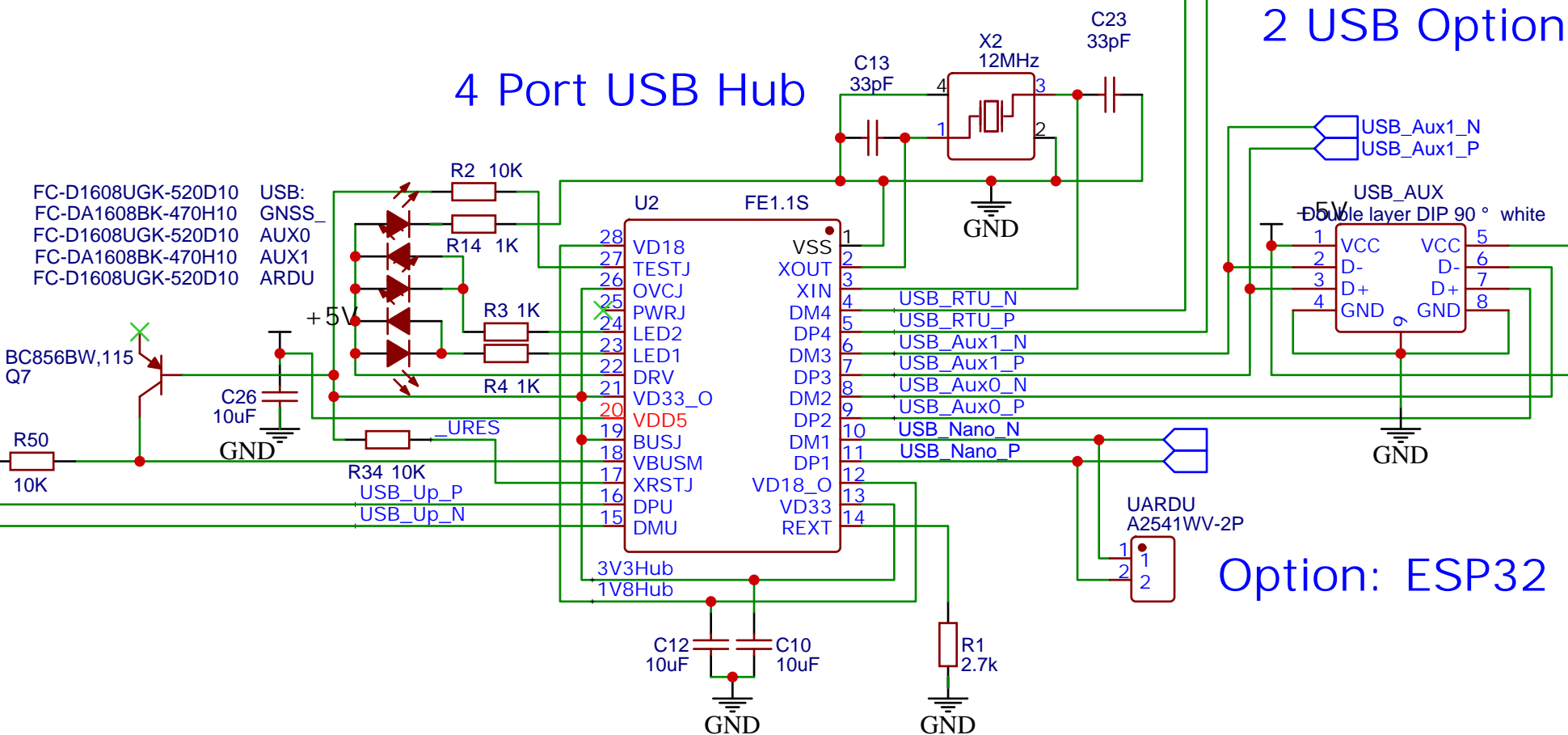


The schematic diagram illustrates the internal wiring of the PM254V-12-06-H85 power supply module. It features two main input sections at the top: **TO\_PC KH-TYPE-C-16P** and **DC/AUX KH-TYPE-C-16P**. Each section shows a 16-pin connector with pins labeled A1 through A12 and B1 through B12. The TO\_PC section includes pins for GND, VBUS, CC1, DP1, DN1, SUB1, and VBUS. The DC/AUX section includes pins for GND, VBUS, CC1, DP2, DN2, SUB2, CC2, and VBUS. Below these input sections are two 8-pin connectors, **CN8** and **CN9**, which are connected to the main power supply components. The main power supply section includes a 5V regulator (J1), a 5.1K resistor (R43), and a 5.1K resistor (R46). The output section shows a 4x1 push\_in connector (CN2) and a 5-pin connector (CN3). The diagram also shows various ground connections (GND) and a USB\_Aux0\_P line. A photograph of the physical module and its connector is included at the bottom right.

## 4 Port USB Hub



Option: ESP32

male:

FC-DA1608HRK-620D

5V F1 1K R64

B5M0D0603-050-6V

GNSS+

A4/SDA

USB1

VCC SHLD D- D+ GND SHLD

A/F90 C109354

GND

J9

GNSS M12 4pole female

A2541WV-2X3P

2 jumpers to the left: USB on M12

2 jumpers to the right: I<sup>2</sup>C on M12

A5/SCL

GND

2 USB Options for Modbus RTU, CAN, etc.

FC-DA1608HRK-620D

B5M0D0603-050-6V

X2 12MHz

C23 33pF

GNSS

USB\_Aux1\_N

USB\_Aux1\_P

USB\_AUX

5V

VCC VCC D- D+ GND GND

GNSS

RTU\_N

RTU\_P

Aux1\_N

Aux1\_P

Aux0\_N

Aux0\_P

Nano\_N

Nano\_P

UARTU

A2541WV-2P

Option: ESP32

R1 2.7k

FCAN

R71 2.7k

F2

CAN M8 4pole female

CANH

CANL

CAN+

CAN-

CN11

J2

A2541WV-2X2P

R60 120

+5V

CANLI

CANH1

CANB M8 4pole female

CANB+

CANB-

CN12

J3

A2541WV-2X2P

R65 120

+5V

4x1 push\_in connector

B5M0D0603-050-6V

FCAN1

R72 2.7k

F3

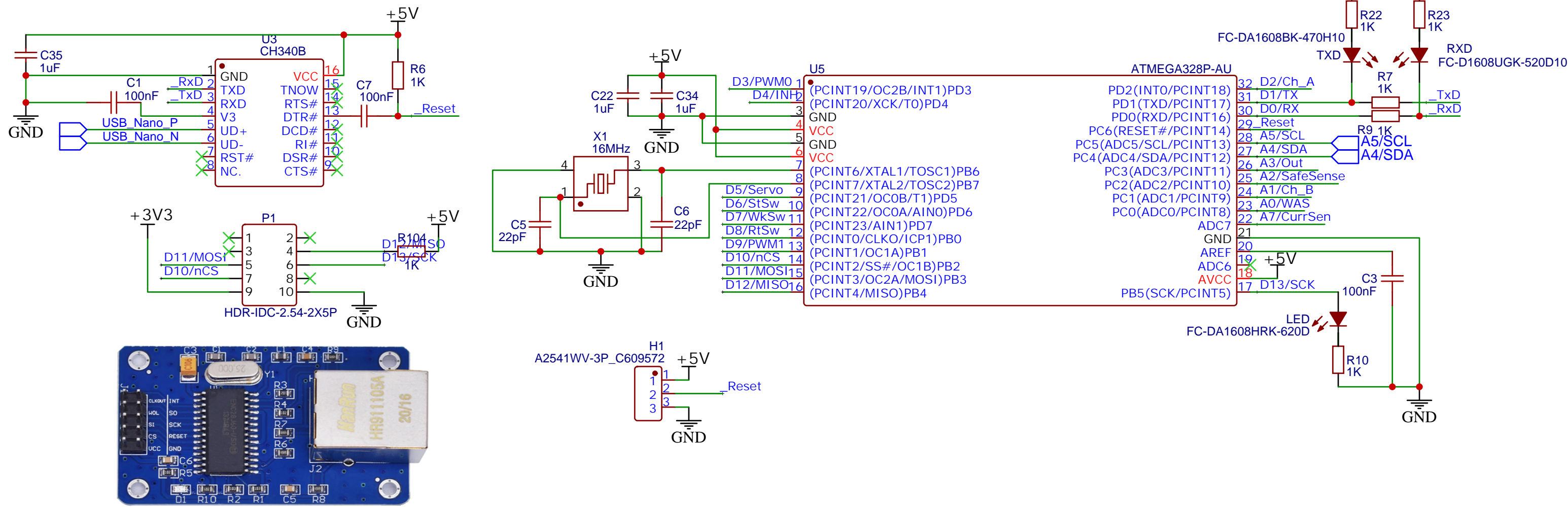
FCAN

FC-DA1608HRK-620D

[illegible]

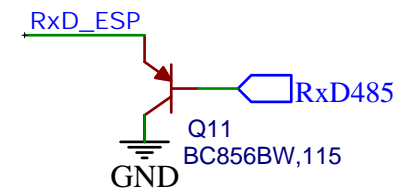
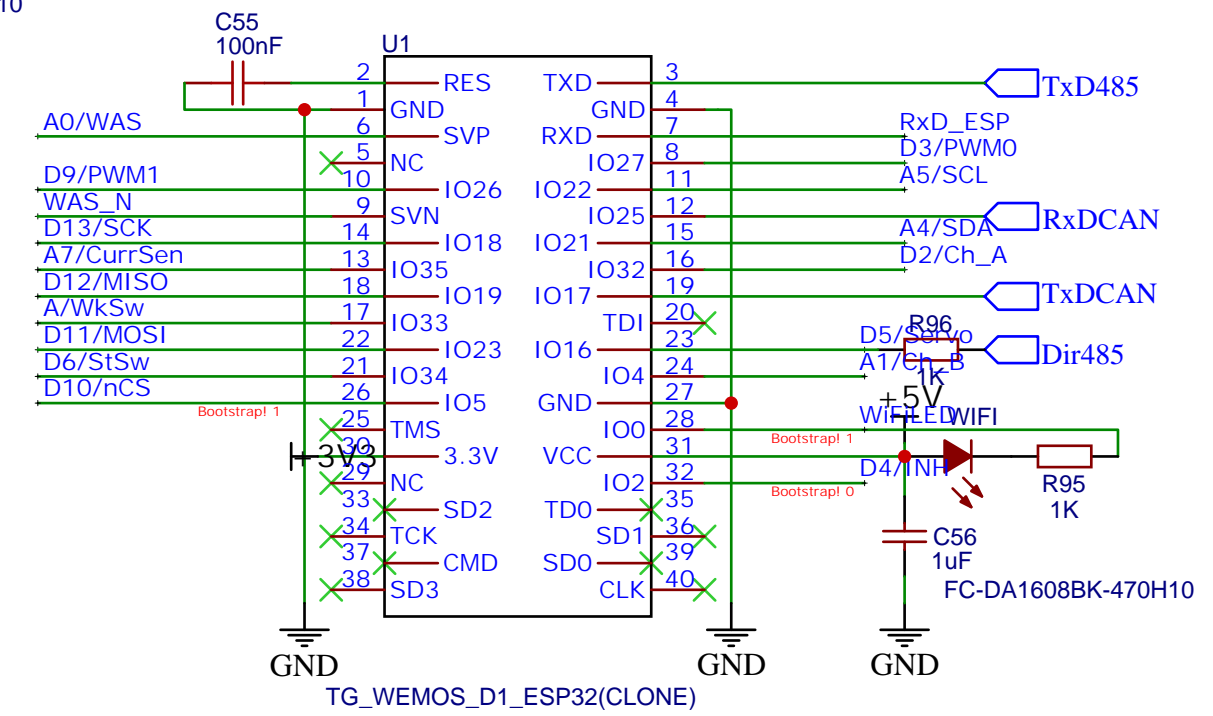
TITLE: Supply & USB		REV: 1.8
	Company: <a href="https://agopengps.discourse.group">agopengps.discourse.group</a>	Sheet: 1/1
	Date: 2020-12-11	Drawn By: GoRoNb

## Nano

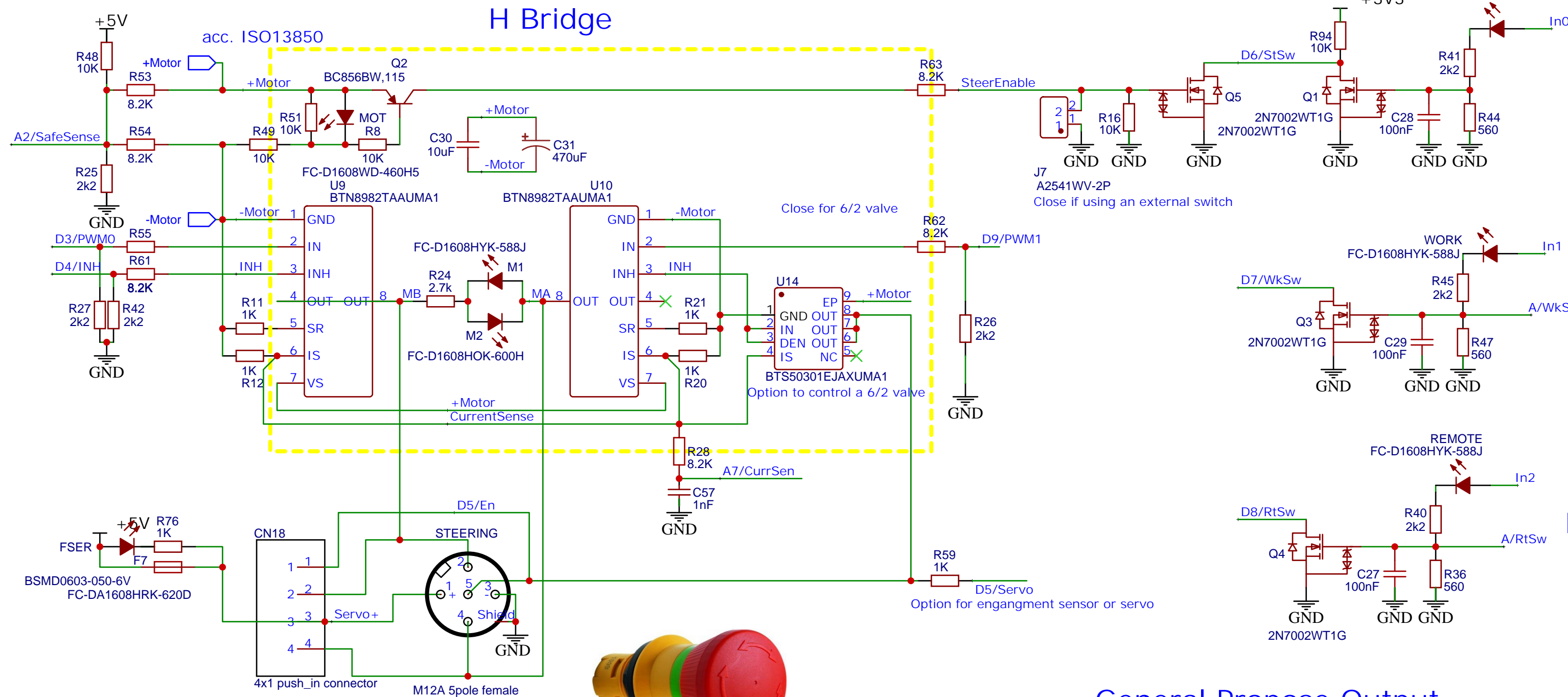


## Option: ESP32

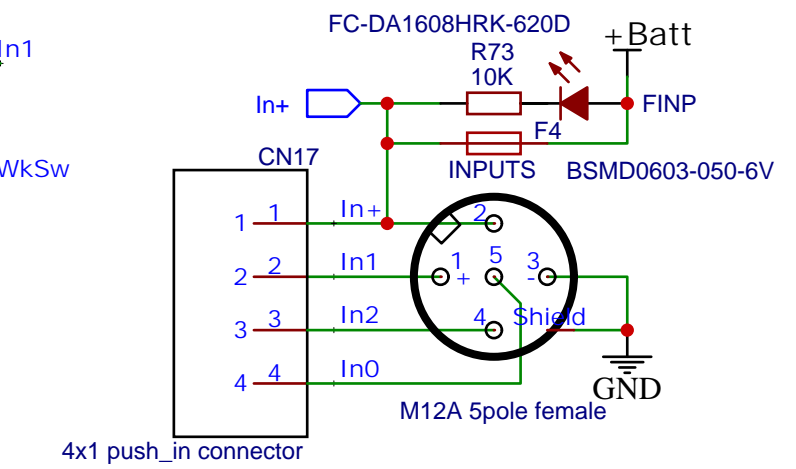
Set jumper on H1 2-3 when using ESP32  
Firmware: [https://github.com/mtz8302/AOG\\_Autosteer\\_ESP32](https://github.com/mtz8302/AOG_Autosteer_ESP32)



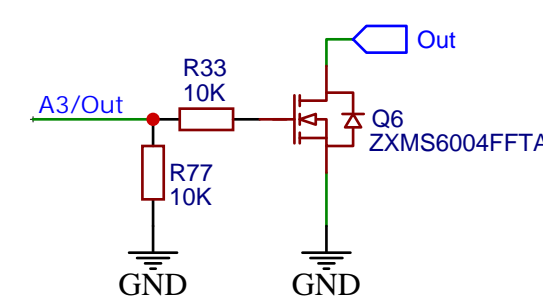
## H Bridge



## Protected General Propose Inputs



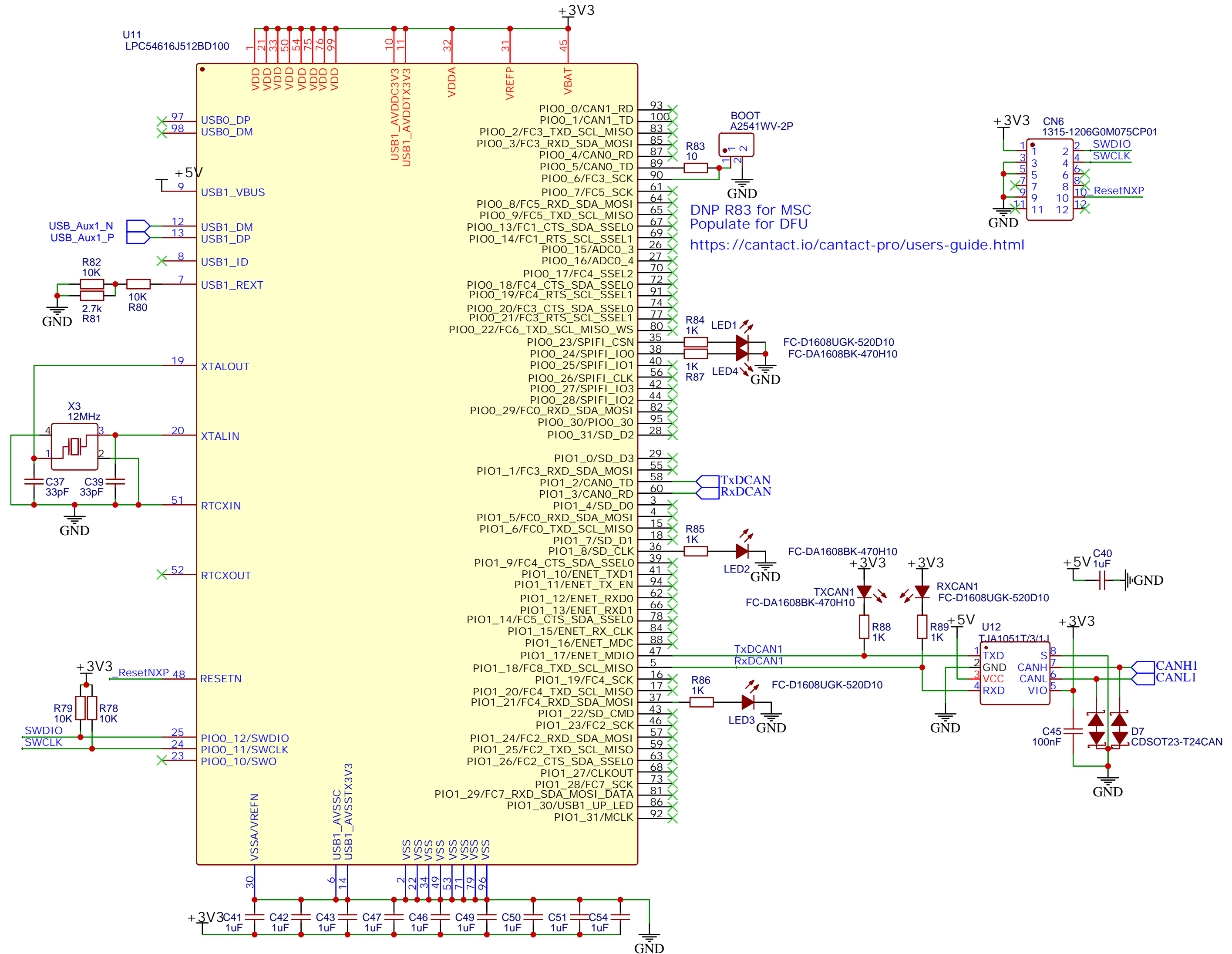
## General Propose Output



TITLE: $\mu$ C, Motor Driver, I/O		REV: 1.8
Company: agopengps.discourse.group		Sheet: 1/1
Date: 2020-12-11		Drawn By: GoRoNb



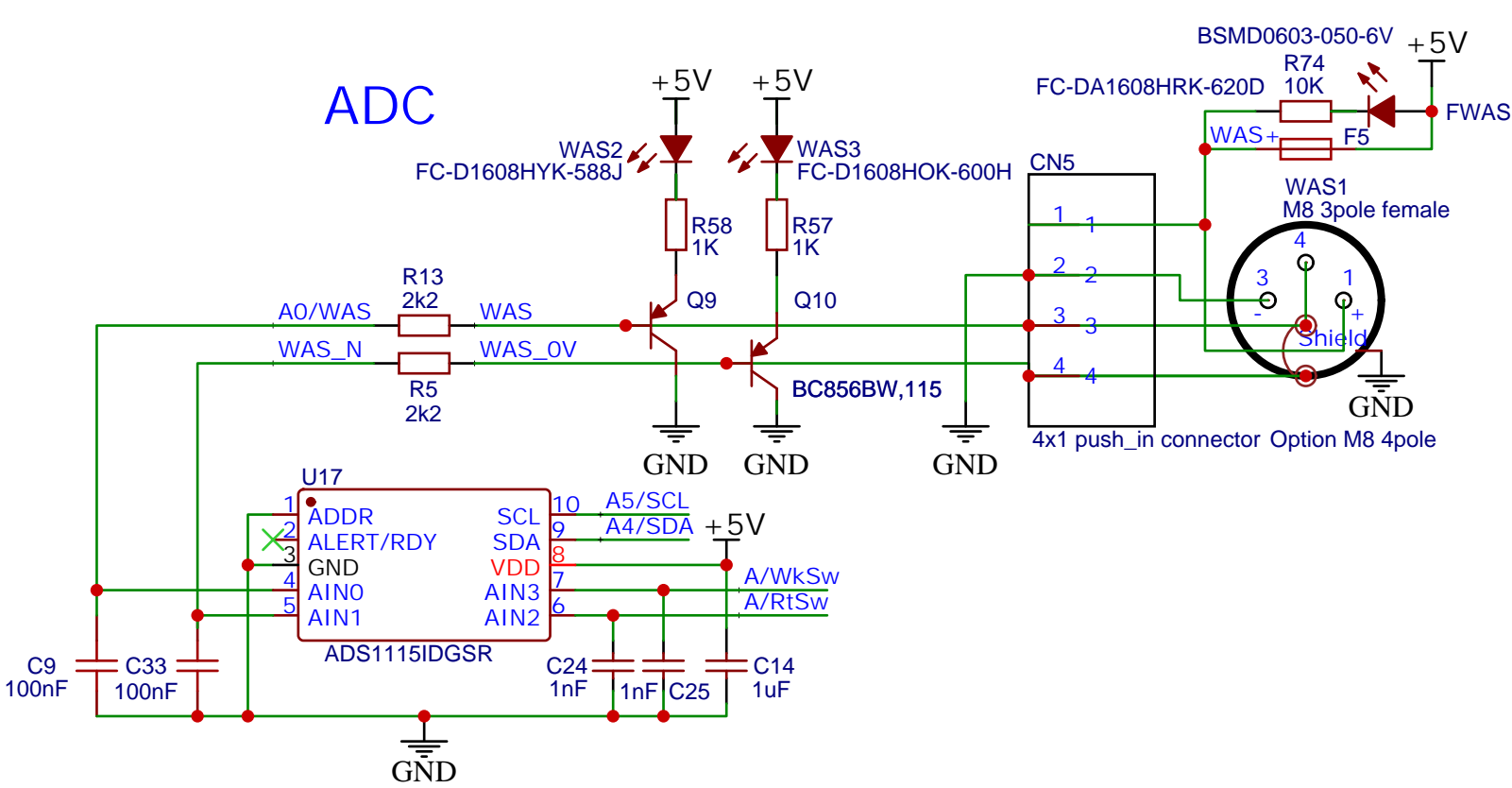
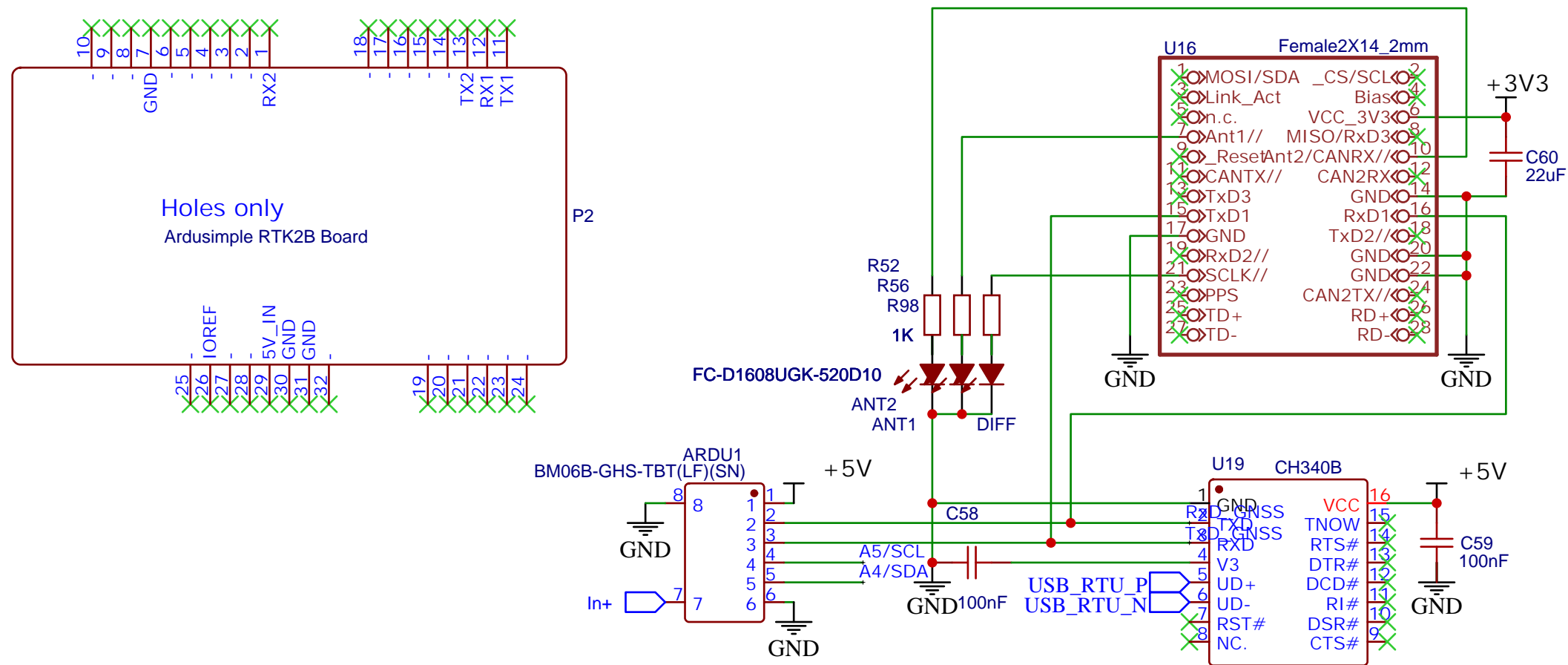
# CANtact



Option: Arduisimple

Option: Bynav-C1

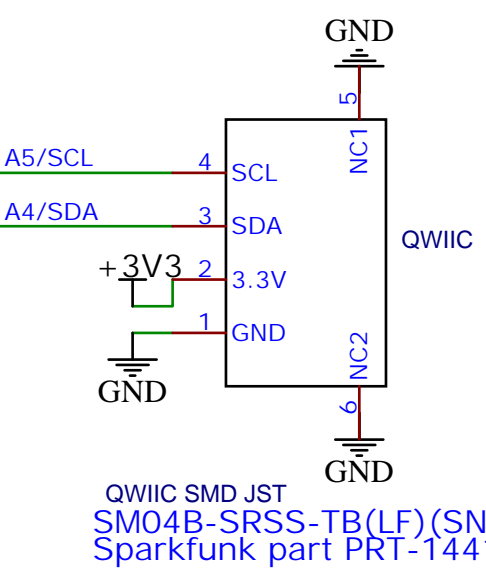
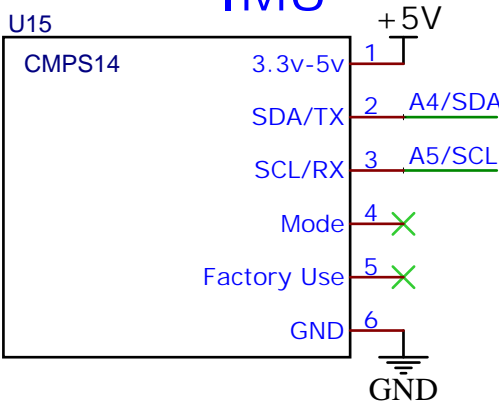
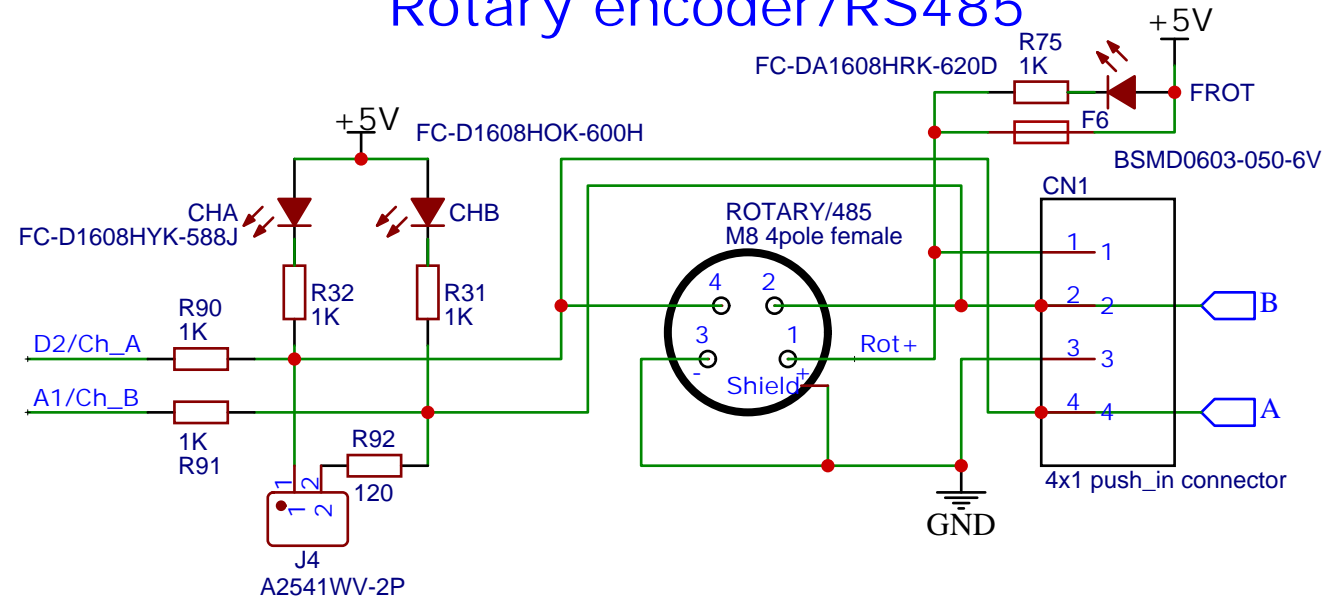
Wheel Angle Sensor



Rotary encoder/RS485

IMU

QWIIC



Roll Sensor

