USB-C PC/Tablet USB-C Charger/GP

TO_PC KH-TYPE-C-16P

DC/AUX KH-TYPE-C-16P

A2541WV-2X3P
PM254V-12-06-H85

A2541WV-2X3P
PM254V-12-06-H85

LED colors:
white: power
green/blue: serial data RxD/TxD
yellow/orange: I/O
red: error

Roof Top Unit Connector

male:

FC-DA1608HRK-620D

BSMD0603-050-6V

USB1
A/F90_C109354

GNSS+
USB_RTU_N
USB_RTU_P

A4/SDA
A5/SCL

J9

GNSS
M12 4pole female

A2541WV-2X3P
2 jumpers to the left: USB on M12
2 jumpers to the right: I ² C on M12

2 USB Options for Modbus RTU, CAN, etc.

4 Port USB Hub

FC-D1608UGK-520D10 USB: GNSS_
FC-DA1608BK-470H10 AUX0
FC-D1608UGK-520D10 AUX1
FC-DA1608BK-470H10 ARDU
FC-D1608UGK-520D10

BC856BW,115
Q7

U2 FE1.1S

URES

USB_Up_P
USB_Up_N

USB_Aux1_N
USB_Aux1_P

USB_AUX
Double layer DIP 90 ° white

UARDU
A2541WV-2P

Option: ESP32

CN2
4x1 push_in connector

CN3
A2541WV-5P

J1
A2541WV-2P

CN13

CN14

Option: CAN2.0 via ESP32/CANtact

TXCAN
RXCAN
FC-DA1608BK-470H10
FC-D1608UGK-520D10

TxDCAN
RxDCAN

U7
TJA1051T/3/1J

CANH
CANL

D5
CDSOT23-T24CAN

Option: RS485 / M

TX485
RX485
FC-DA1608BK-470H10
FC-D1608UGK-520D10

RxD485
Dir485
TxD485

U8
KY3485LEEN

D6
CDSOT23-T24CAN

U6
CH340B

USB_Aux0_P
USB_Aux0_N

Power Input Connector

CN4
4x1 push_in connector

POWER
M12A 5pole male

J8
A2541WV-4P

+Batt
GND
-Min
SMCJ33CA
D1

Aux
Out
+Motor
-Motor

Q8
HSBA4048

R15 10K
R35 10K
R39 10K

Switch Mode Power Supply

D3
SS54_C22452

D2
SMCJ15CA

+Vin
12V
+SMPS

TPS54302DDCR_C311983

FC-D1608WD-460H5

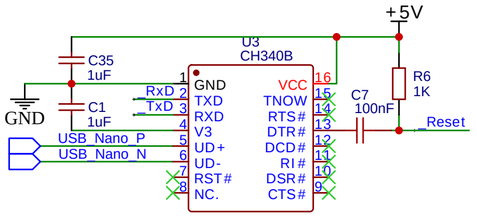
CN7
A2541WV-2P

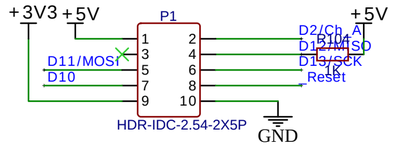
CN15
A2541WV-2P

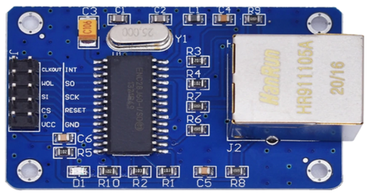
3V3
FC-D1608WD-460H5

TITLE: Supply & USB	REV: 1.0
Company: agopengps.discourse.group	Sheet: 1/1
Date: 2020-12-11 Drawn By: GoRoNb	

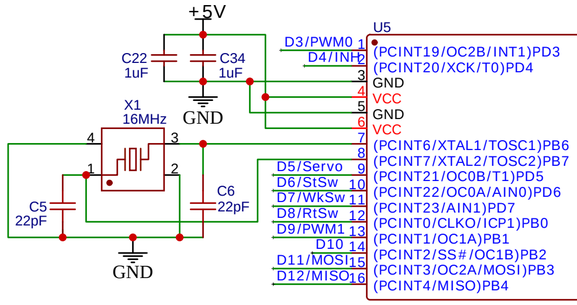
Nano

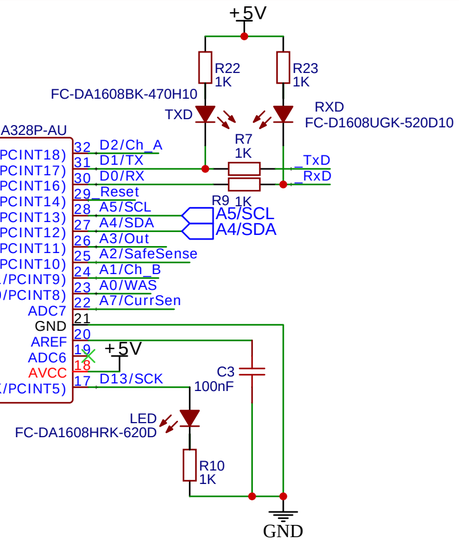




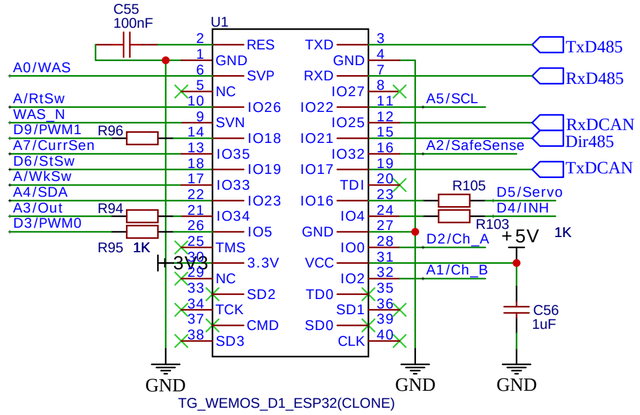


Cut CLKOUT before connecting!

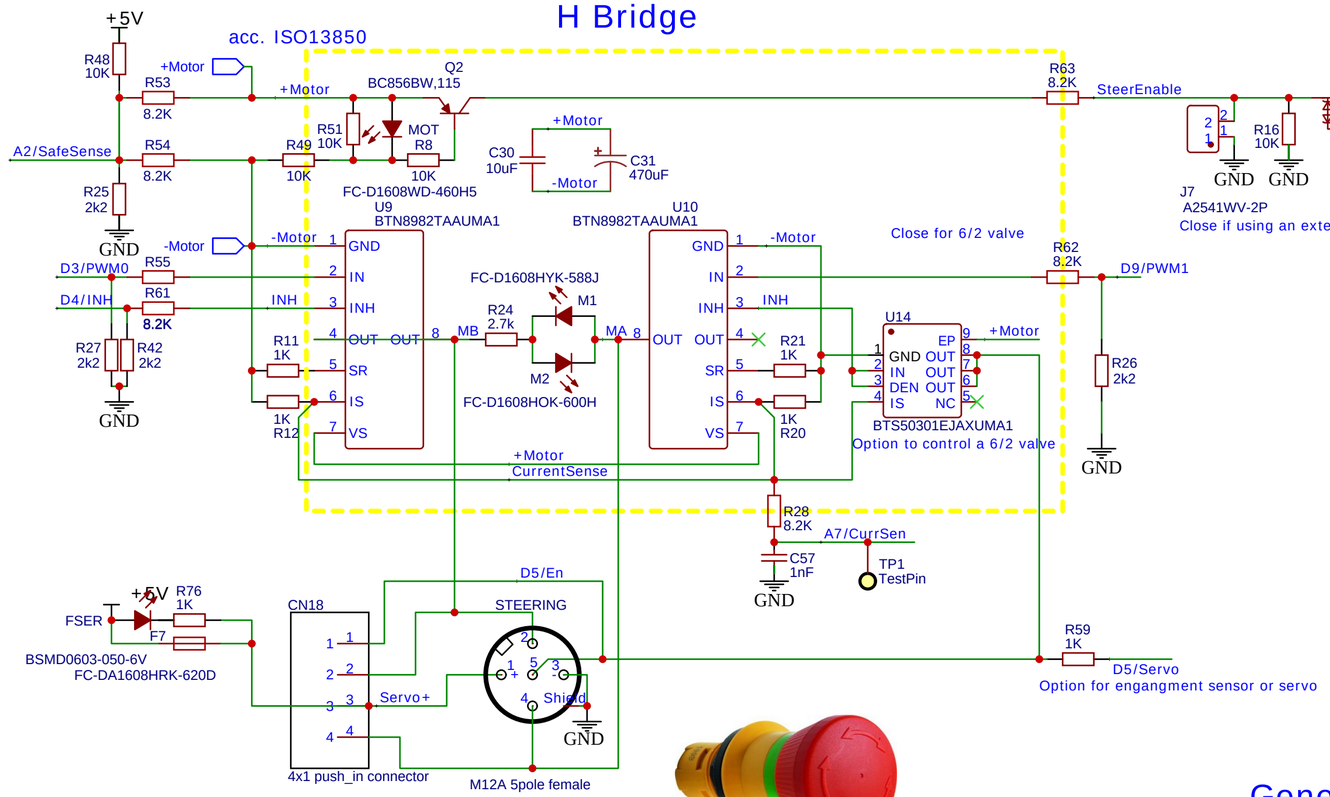


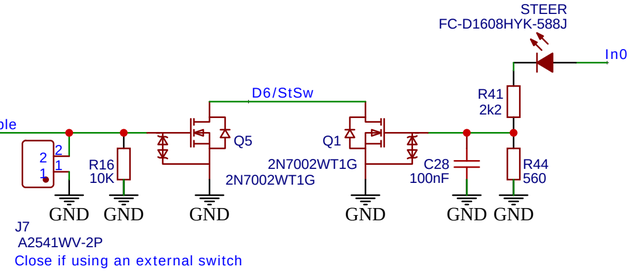


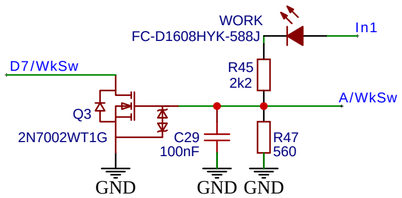
Option: ESP32

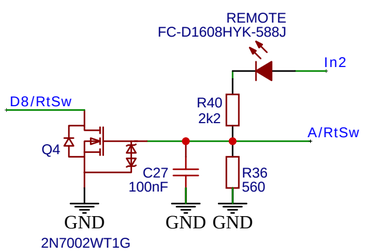


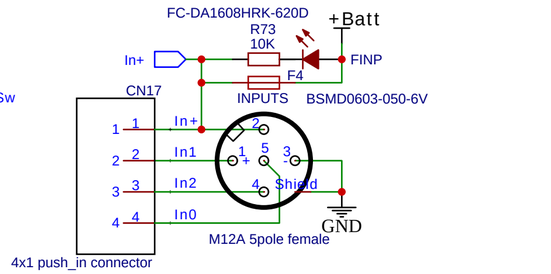
H Bridge





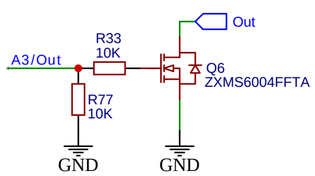






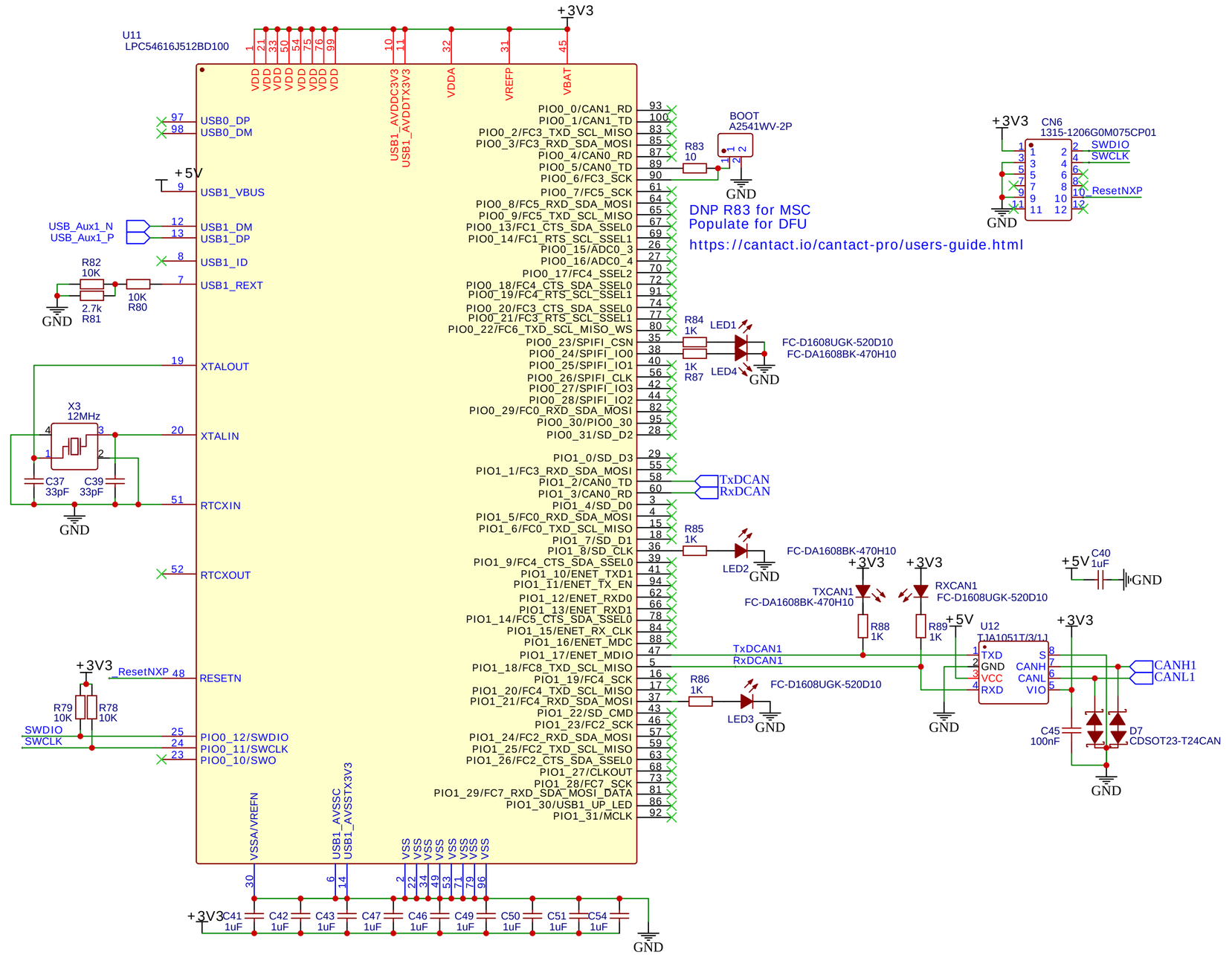
Protected General Propose Inputs

General Propose Output



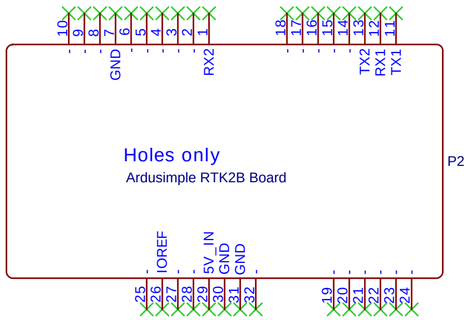
TITLE: µC, Motor Driver, I/O		REV: 1.0
EasyEDA	Company: agopengps.discourse.group	Sheet: 1/1
	Date: 2020-12-11 Drawn By: GoRoNb	

CANtact

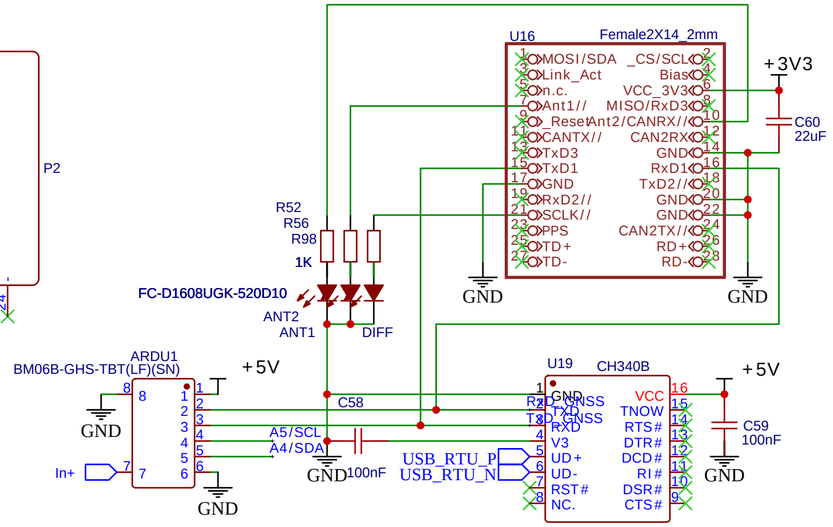


TITLE: CANtact controller		REV: 1.0
EasyEDA	Company: agopengps.discourse.group	Sheet: 1/1
	Date: 2020-12-11 Drawn By: GoRoNb	

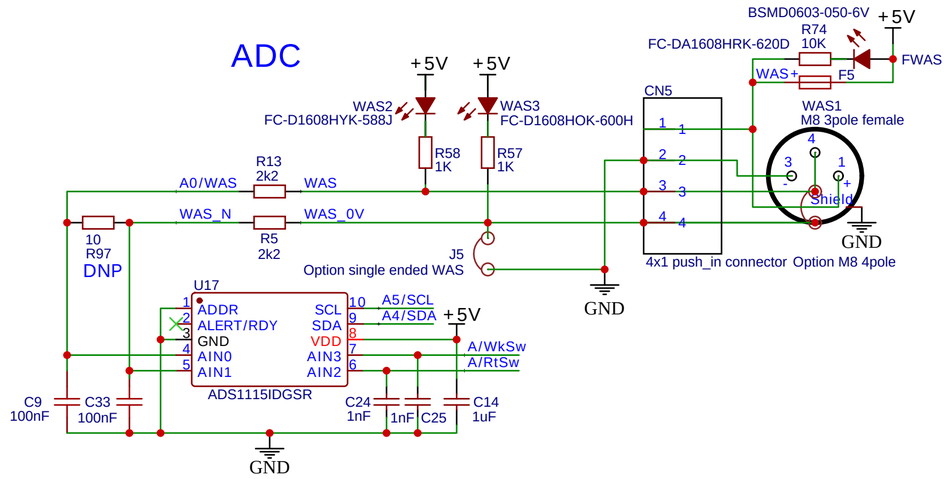
Option: Ardusimple



Option: Bynav-C1



Wheel Angle Sensor



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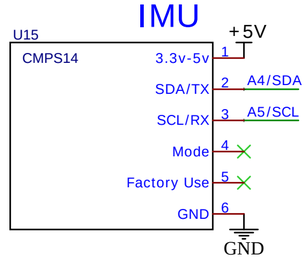

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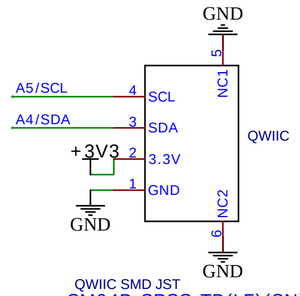
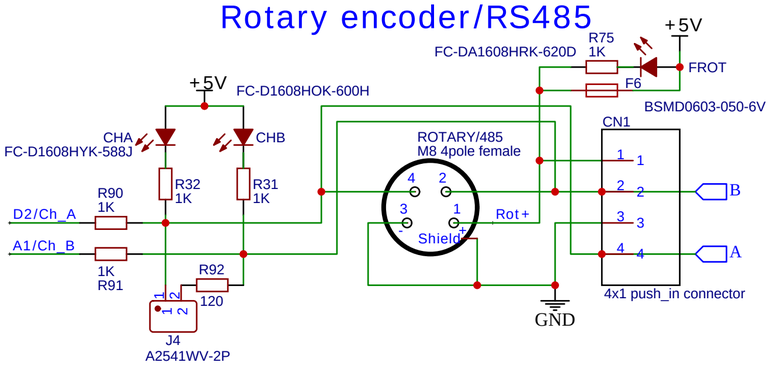
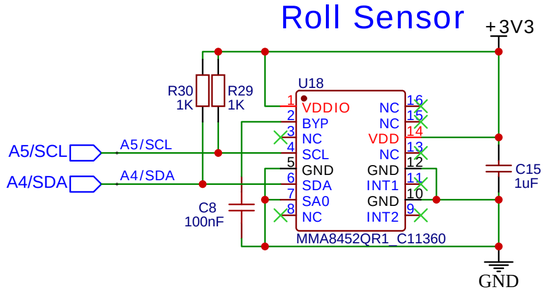


Rotary encoder/RS485



Roll Sensor



TITLE: Sensors		REV: 1.0
EasyEDA	Company: agopengps.discourse.group	Sheet: 1/1
	Date: 2020-12-11 Drawn By: GoRoNb	