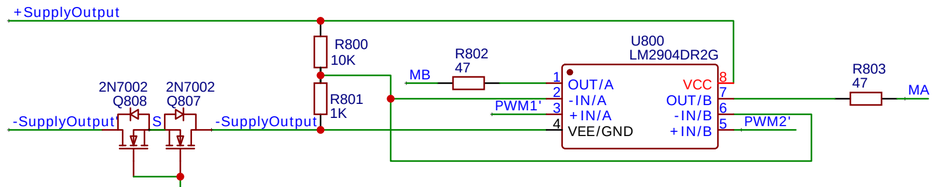
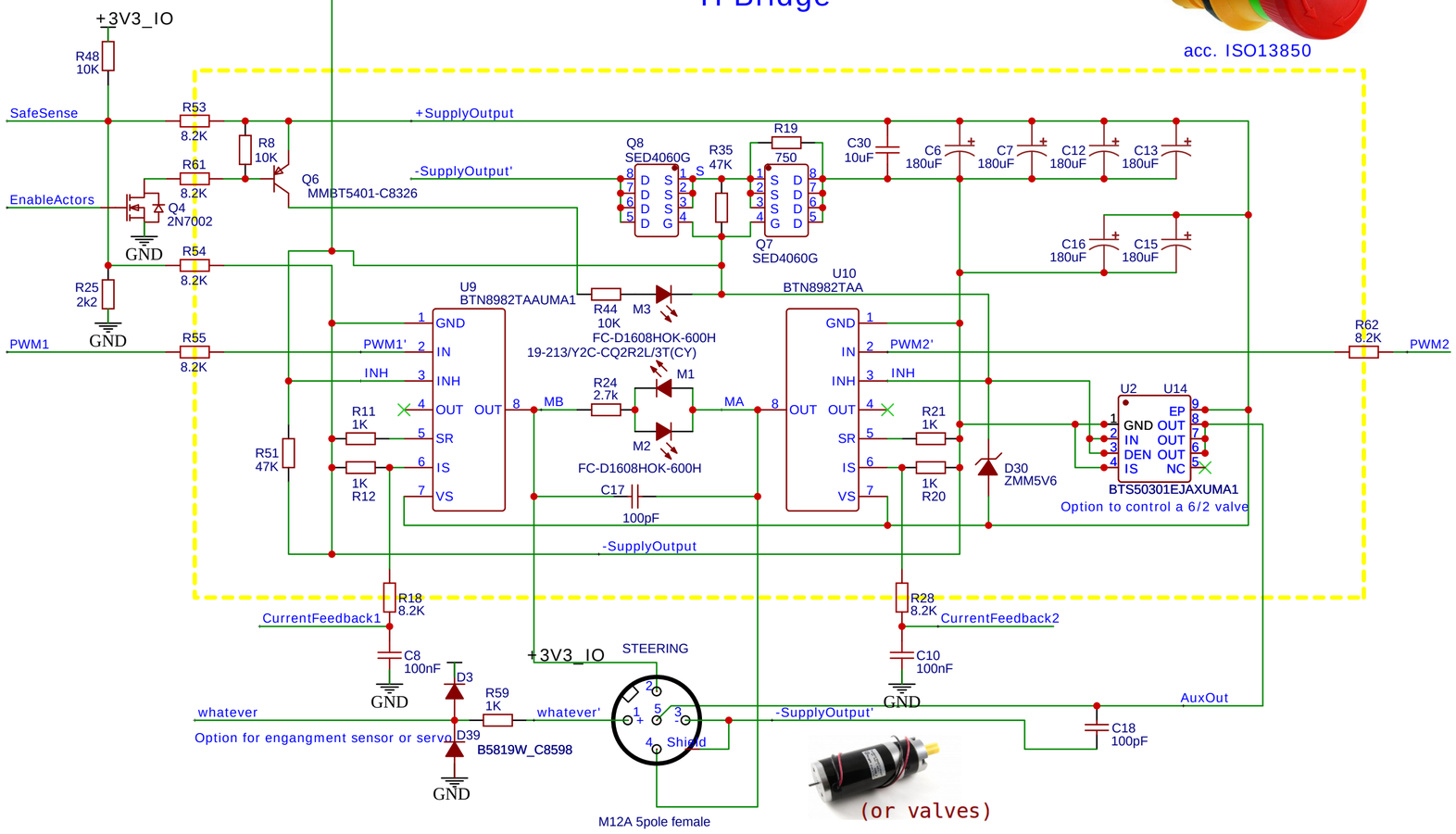
Danfoss (no H Bridge needed)

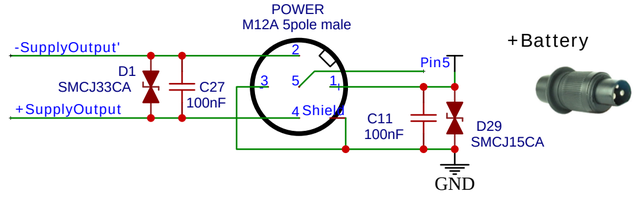


acc. ISO13850

H Bridge

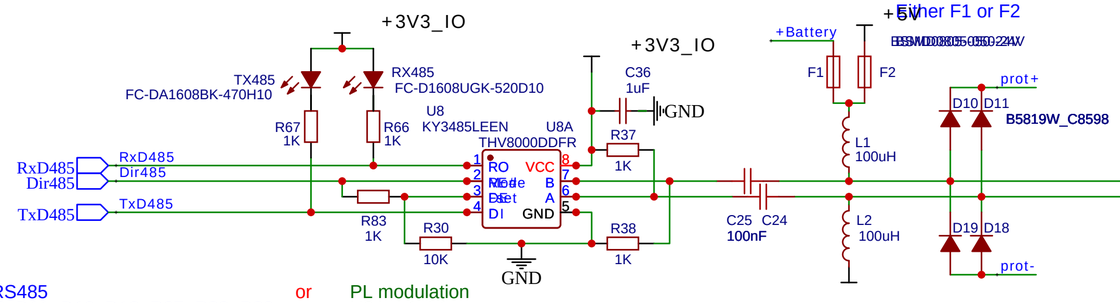


Power Input Connector



TITLE: Motor Driver, Power Input		REV: 3.2
EasyEDA	Company: agopengps.discourse.group	Sheet: 1/5
	Date: 2022-01-19 Drawn By: GoRoNb	

RS485 / ModbusRTU



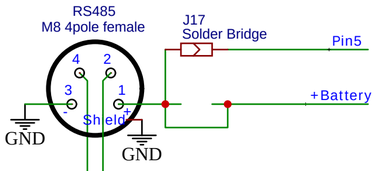
Either F1 or F2

Either RS485
U8, D10, D11, D19, D18, R37, R38, R83
C24, C25 = 10R

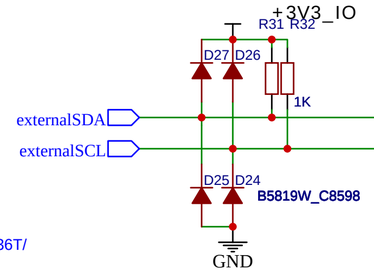
or

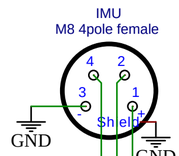
PL modulation
U8A, L1, L1
C24, C25 = 100nF

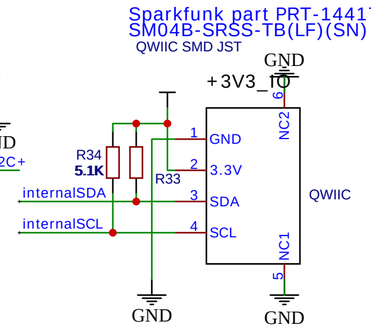
e.g.: http://www.amazon.de/dp/B08JV9J36T/



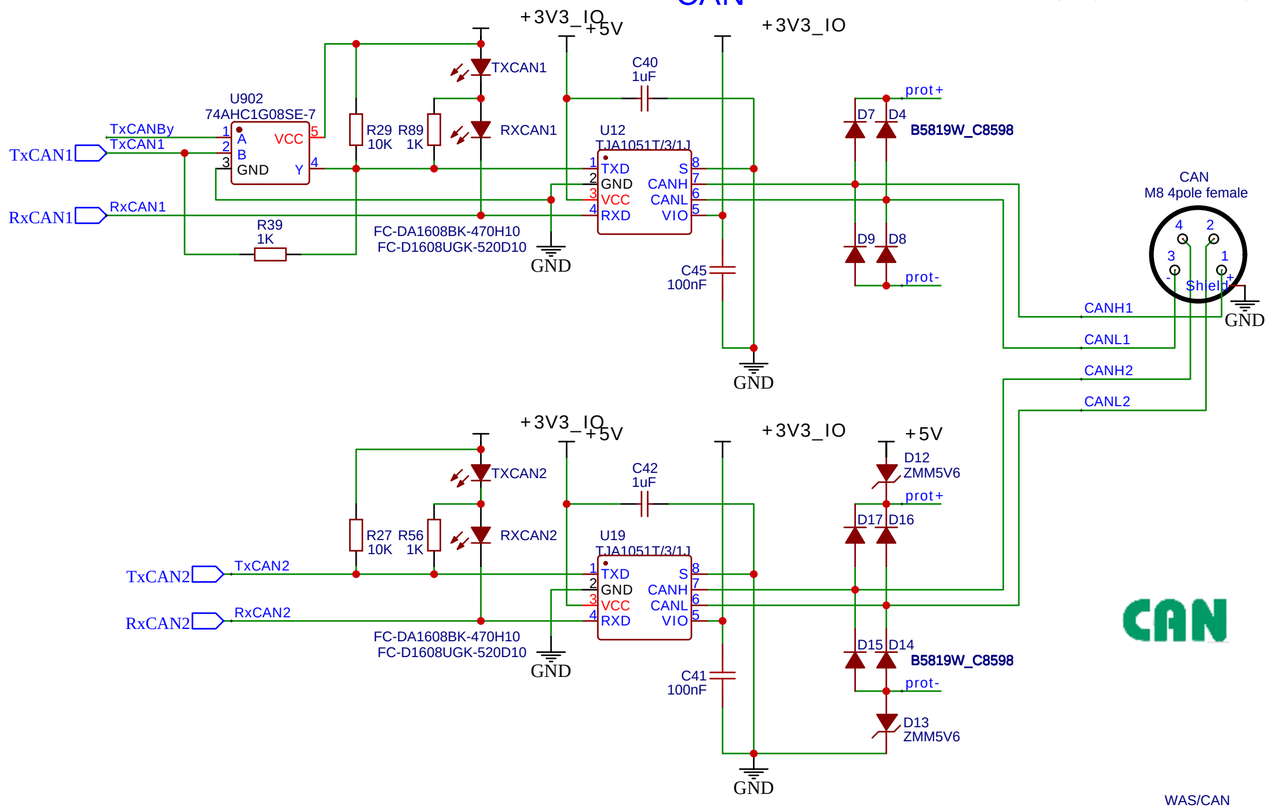
I2C external or WS2812 LED stripe



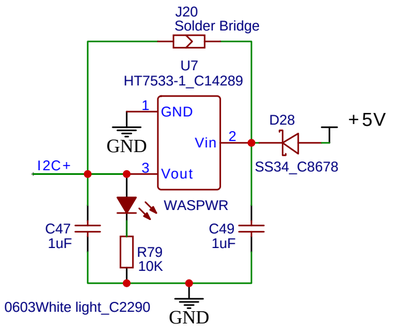




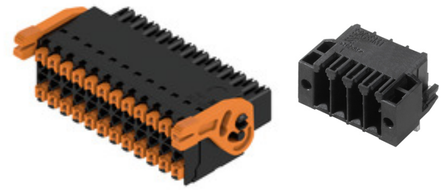
CAN

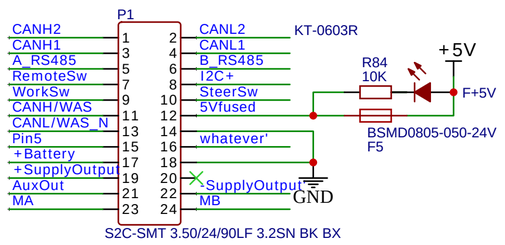


CAN



Main connector

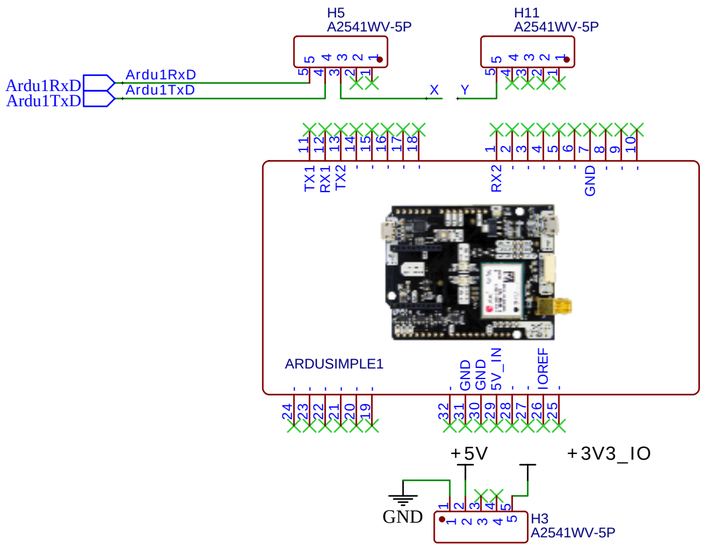


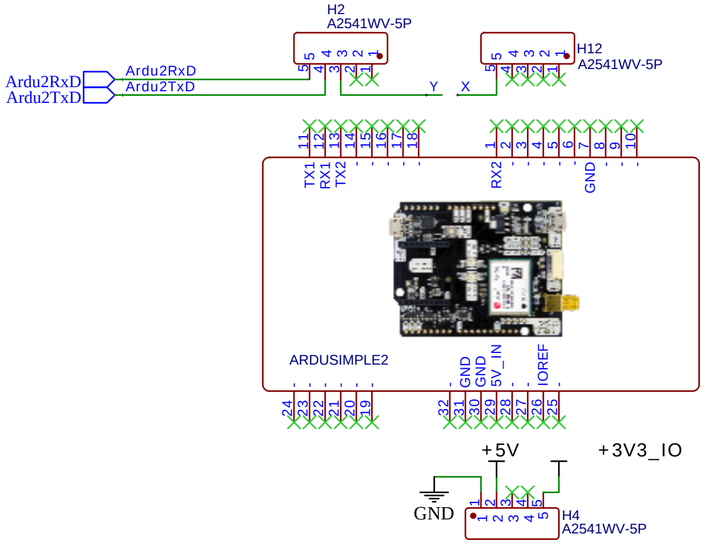


P1: Weidmuller 1289550000 + 1372870000
S2C-SMT 3.50/24/90LF 3.2SN BK BX + B2CF 3.50/24/180LH SN BK BX

TITLE: Serial Communication, PushIn Connector		REV: 3.2
EasyEDA	Company: agopengps.discourse.group	Sheet: 2/5
	Date: 2022-01-19 Drawn By: GoRoNb	

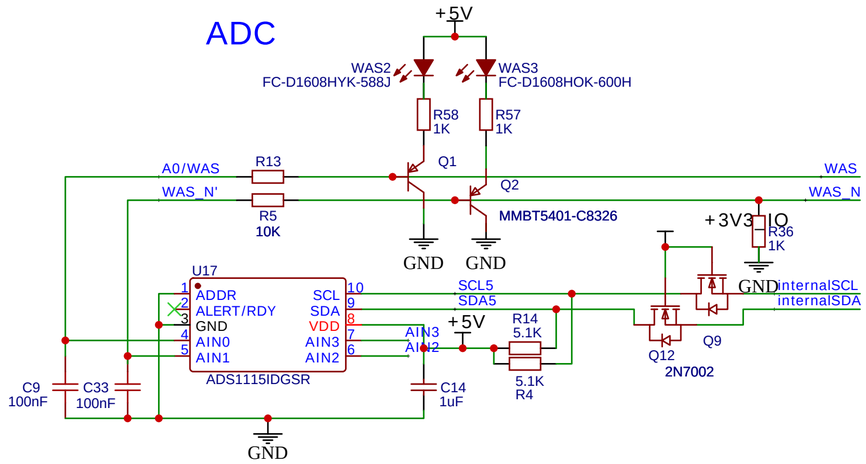
Ardusimple Onboard Module(s)



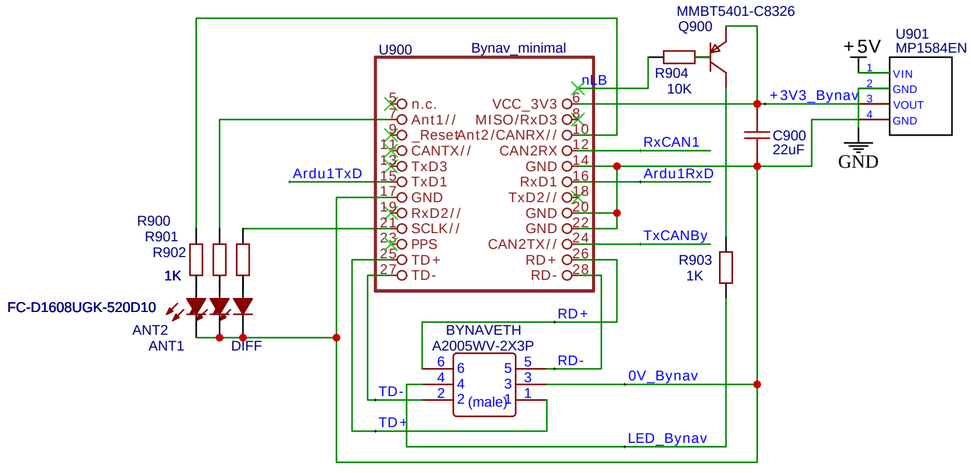


Wheel Angle Sensor

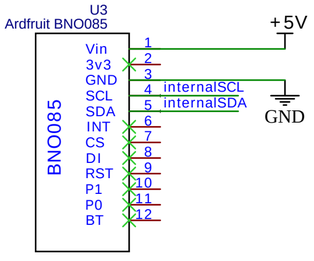
ADC



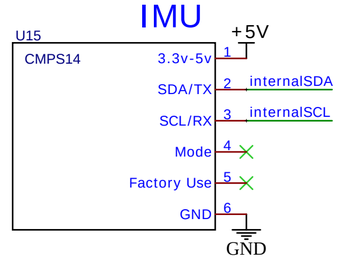
Option: Bynav-C1



Use Teensy Ethernet picktail to connect to Bynav Ethernet for configuration



IMU



TITLE: Sensors (RTK, ADC, IMU)		REV: 3.2
EasyEDA	Company: agopengps.discourse.group	Sheet: 3/5
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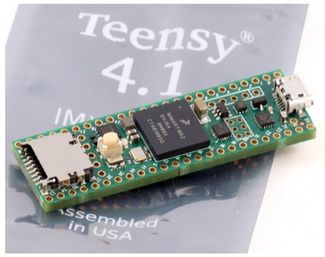
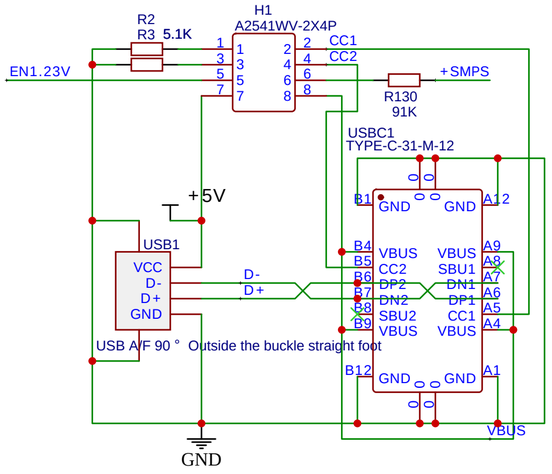
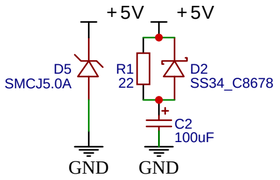
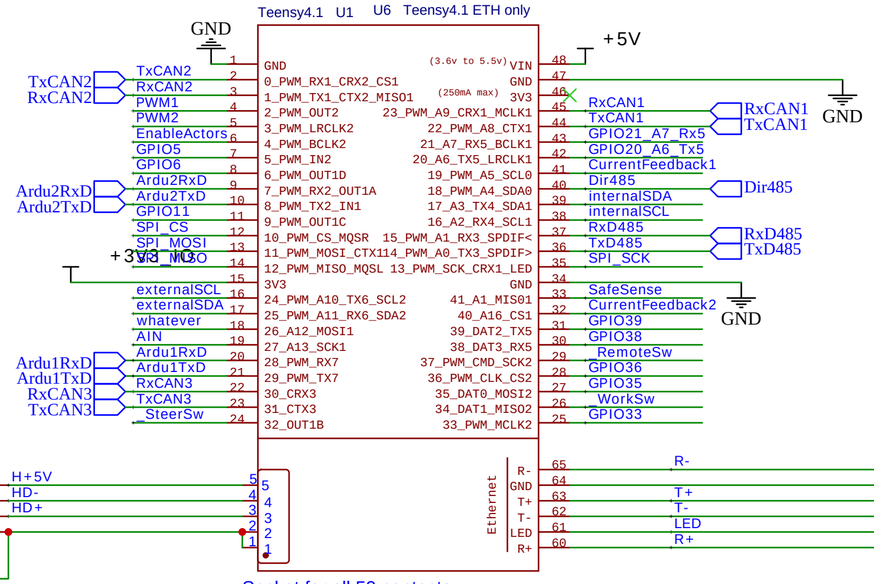
USB Loops



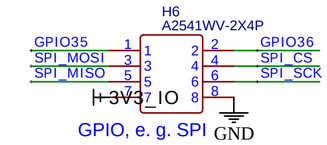




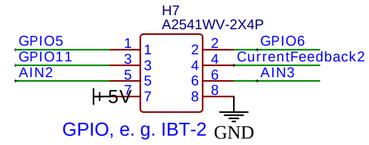


Socket for all 59 contacts:
e. g. combination Fischerelektronik
MK 05 30 Z + MK 01 30 Z (2 pieces each)

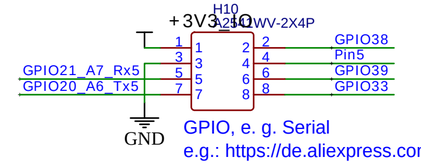
GPIOs



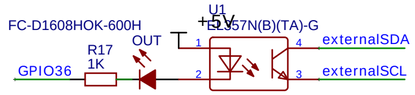
GPIO, e. g. SPI



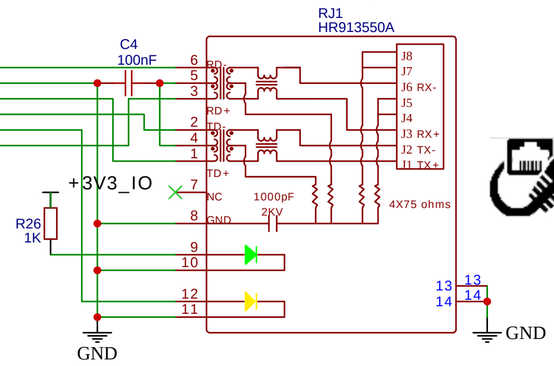
GPIO, e. g. IBT-2



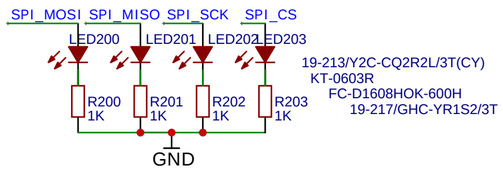
GPIO, e. g. Serial
e.g.: https://de.aliexpress.com/item/2054995985.html

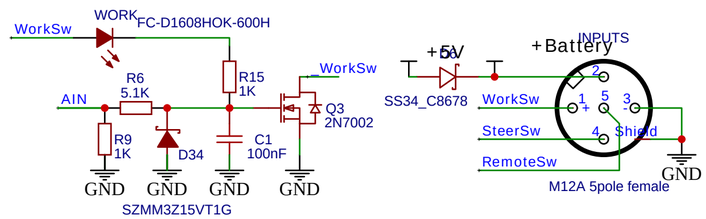


Ethernet

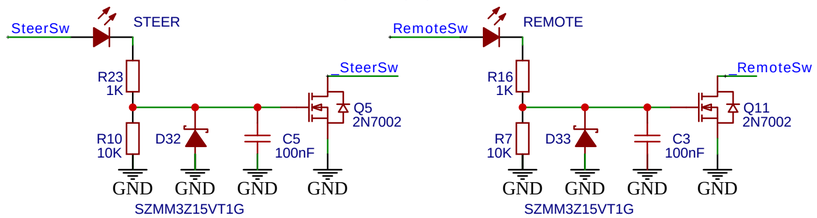


Protected General Propose Inputs





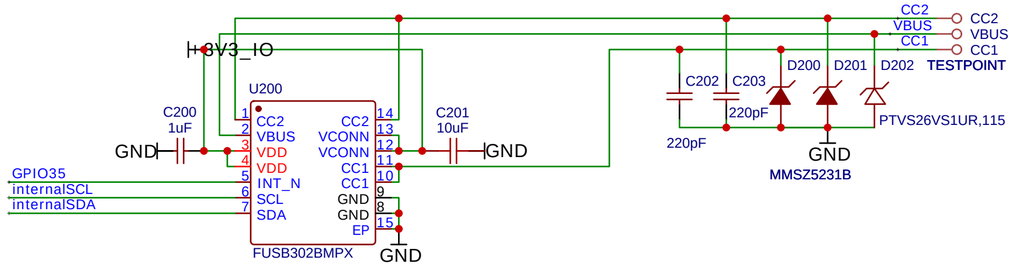
19-213/Y2C-CQ2R2L/3T(CY)



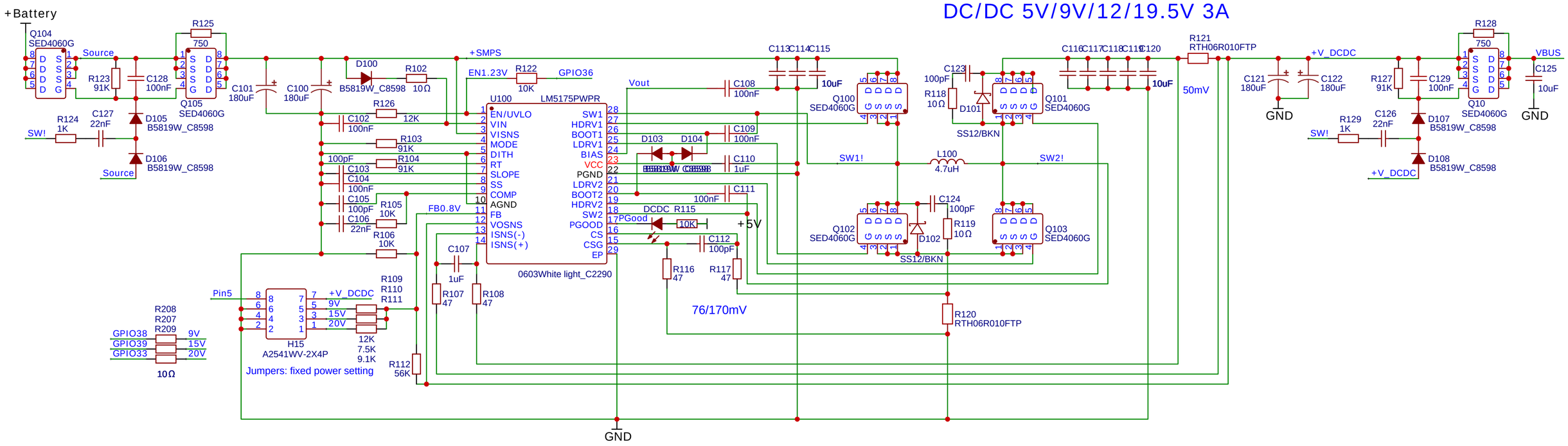
LED colors:
white: power
green/blue: serial data RxD/TxD
yellow/orange: I/O
red: error

TITLE: Teensy 4.1, USB, Inputs		REV: 3.2
EasyEDA	Company: agopengps.discourse.group	Sheet: 4/5
	Date: 2022-01-19 Drawn By: GoRoNb	

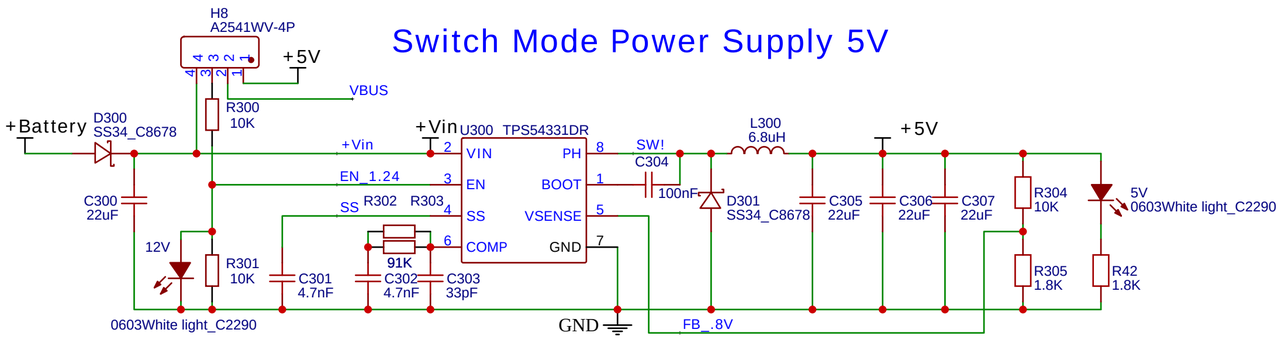
USB-C Power Delivery Role Swap



DC/DC 5V/9V/12/19.5V 3A



Switch Mode Power Supply 5V



TITLE: DCDC_USB-PD		REV: 3.2
EasyEDA	Company: agopengps.discourse.group	Sheet: 5/5
	Date: 2022-01-19 Drawn By: GoRoNb	