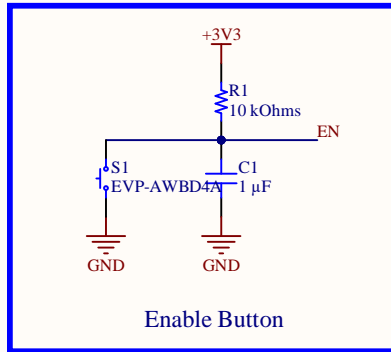
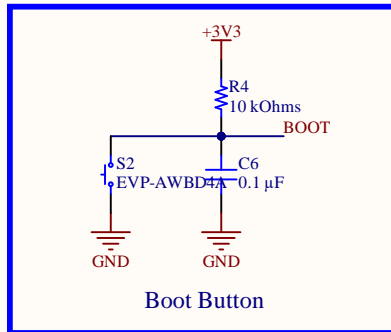


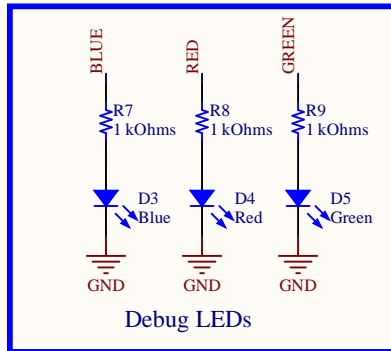
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Size	Number	Revision
A4		
Date:	6-14-2023	Sheet of
File:	C:\Gripper-Arm\...\Top Level.SchDoc	Drawn By:



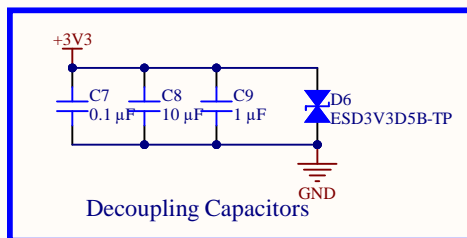
Enable Button



Boot Button

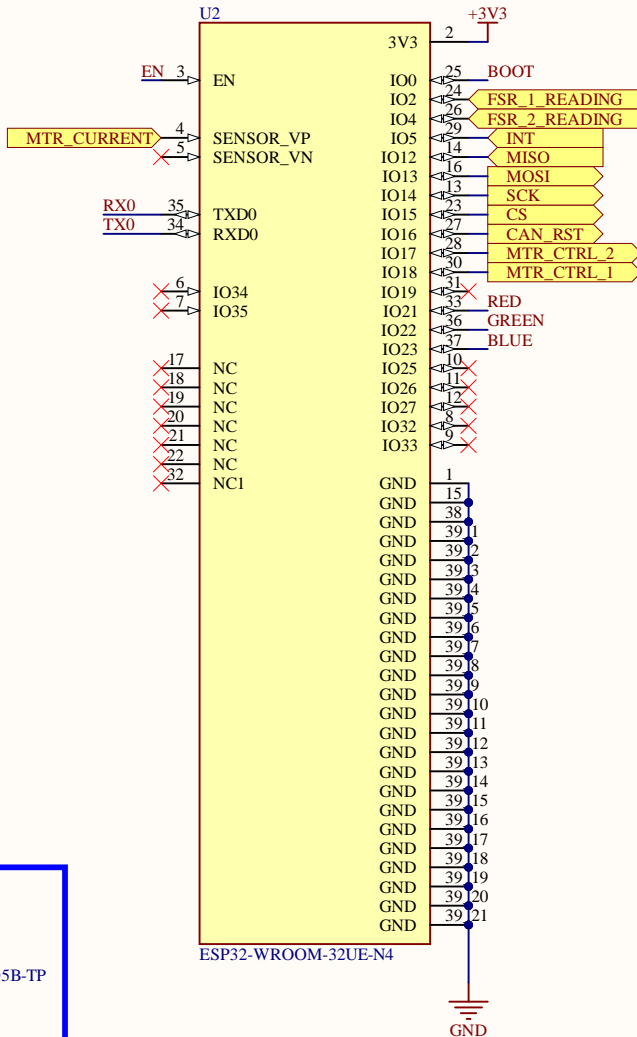


Debug LEDs

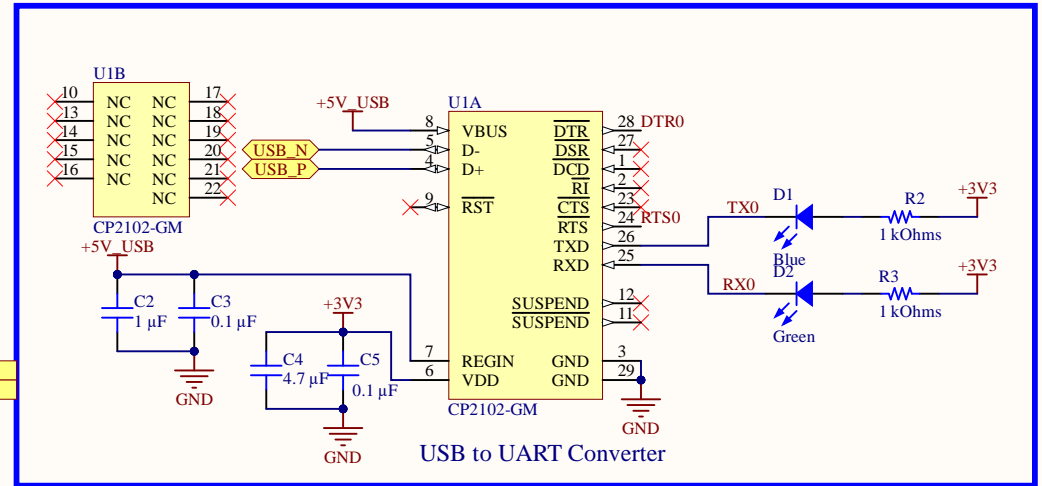


Decoupling Capacitors

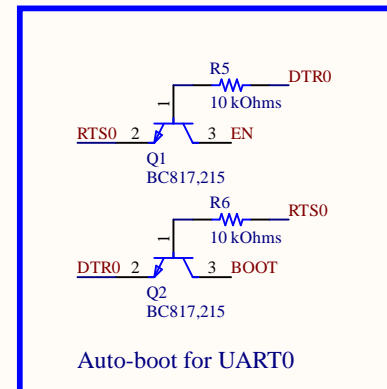
MTR CURRENT = ADC1\_CH0  
 SPI Pins = GPIO12-15  
 FSR 1 READING = ADC2\_CH2  
 FSR 2 READING = ADC2\_CH0



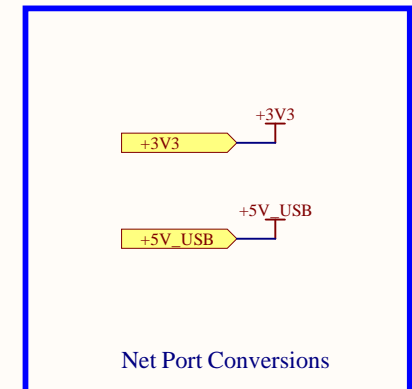
ESP32-WROOM-32UE-N4



USB to UART Converter

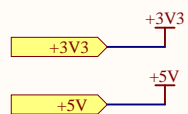


Auto-boot for UART0

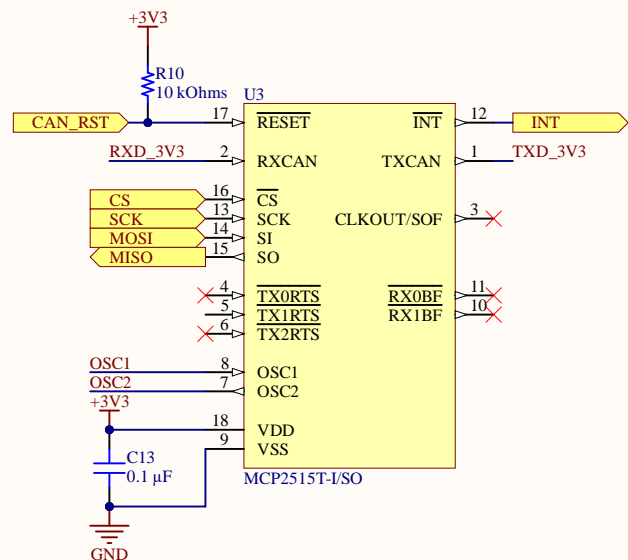


Net Port Conversions

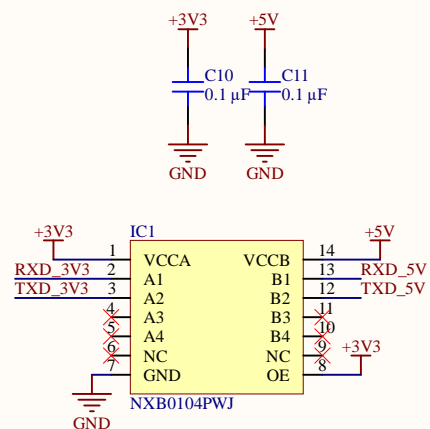
Title		
Size	Number	Revision
A4		
Date:	6-14-2023	Sheet of
File:	C:\Gripper-Arm\...\Microcontroller.SchDoc Drawn By:	



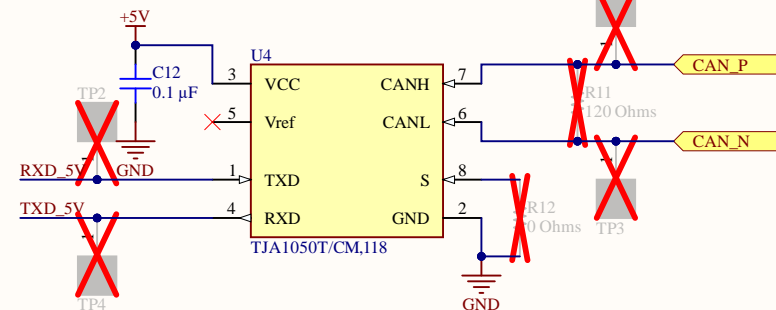
Net Port Conversions



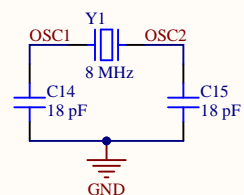
CAN Controller



3V3 <-> 5V Bidirectional Level Shifter

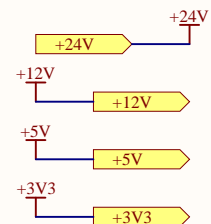


CAN Transceiver

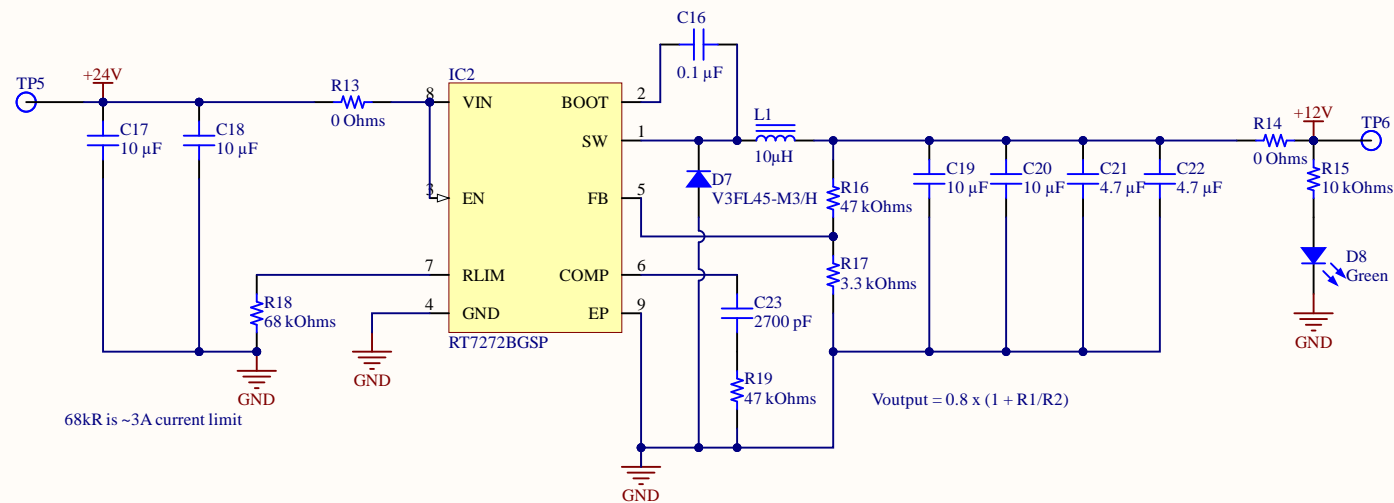


CAN Controller Oscillator

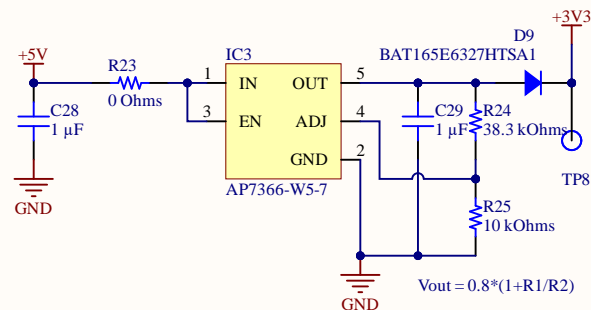
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Size	Number	Revision
A4		
Date:	6-14-2023	Sheet of
File:	C:\Gripper-Arm\...\CAN.SchDoc	Drawn By:



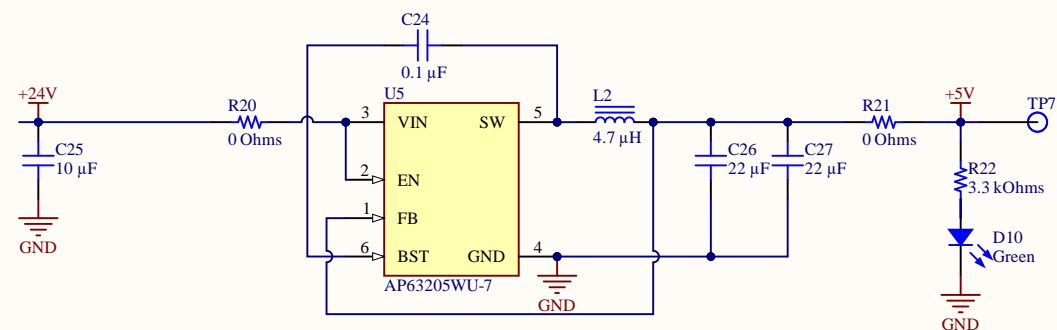
Net Port Conversions



24V -&gt; 12V 2.5A Buck Converter



5V -&gt; 3V3 600mA LDO



24V -&gt; 5V 2A Buck Converter

Title		
Size	Number	Revision
A4		
Date:	6-14-2023	Sheet of
File:	C:\Gripper-Arm\...\Power.SchDoc	Drawn By:



1

2

3

4

A

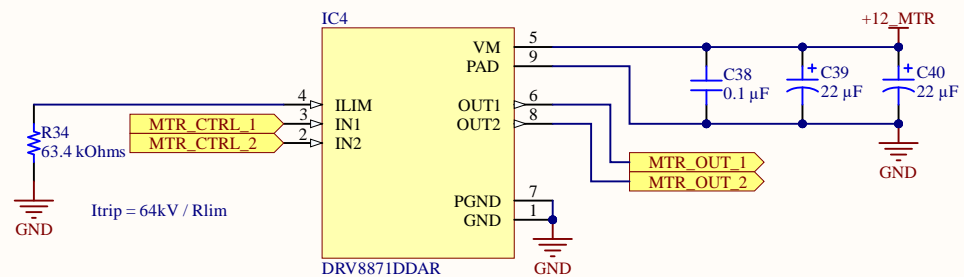
A



## Net Port Conversions

B

B



Motor being driven draws around 0.35A from testing. Peak current draw unknown. Missing datasheet as well

## Integrated Full Bridge Driver

C

C

D

D

Title		
Size A4	Number	Revision
Date:	6-14-2023	Sheet of
File:	C:\Gripper-Arm\...\Motor Driver.SchDoc	Drawn By:

1

2

3

4