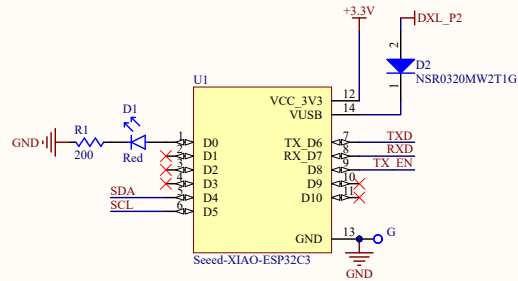
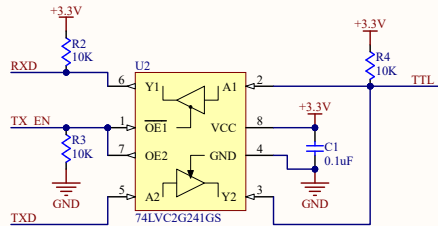


## Microcontroller



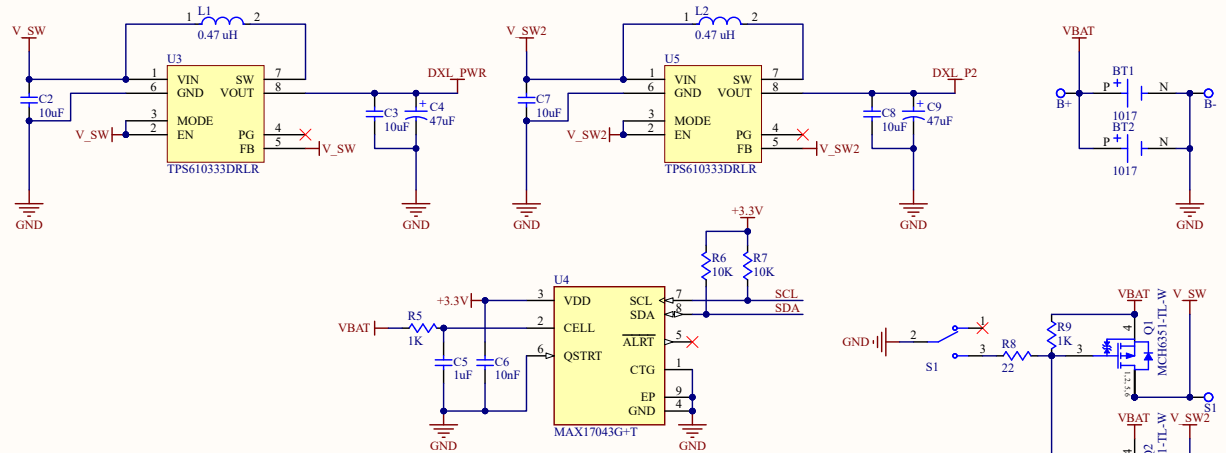
-Compatible with the following dev boards:  
 -Seseed Studio XIAO, Seseed Studio XIAO ESP32C3.  
 -Adafruit QT Py Series.

## Dynamixel TTL Comms



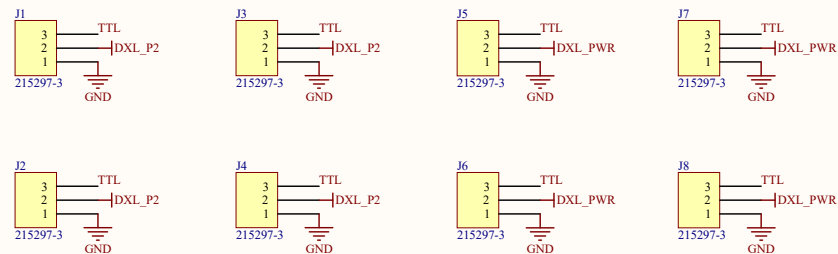
-Dynamixel TTL has a request-response control scheme.  
 -TX\_EN is used to switch between TX and RX.  
[https://emmanual.robotis.com/docs/en/parts/interface/mkr\\_shield/](https://emmanual.robotis.com/docs/en/parts/interface/mkr_shield/)

## Power Management



-Minimize the length and area of all traces connected to the SW pin. Use a ground plane under the switching regulator to minimize interplane coupling.  
 -Place the input and output capacitors as close to their respective pins as possible.  
<https://circuitdigest.com/electronic-circuits/simple-mosfet-switching-circuit-how-to-turn-on-turn-off-mosfets>  
 - Typical VSD for MCH6351 is -0.83V.

## Robot Connections



Title		
Q8_V2 PCB Schematics		
Size	Number	Revision
B		
Date:	10/27/2024	Sheet of
File:	G:\My Drive\...\Q8_V2.2_Sch.SchDoc	Drawn By: