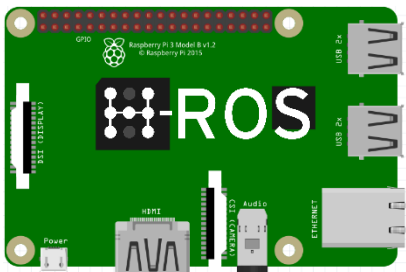
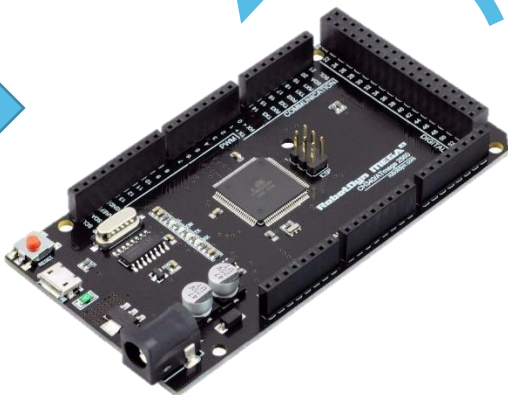




Raspberry Pi 3B+



↔ roserial  
USB Conn

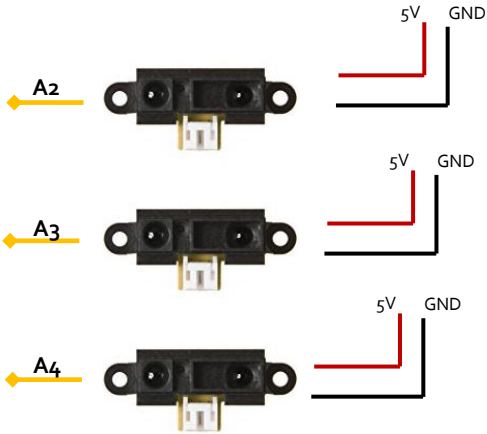


Arduino Mega 2560

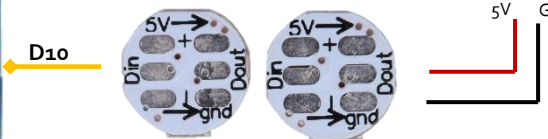
RobotCraftBot Shield



IR Sensor Sharp GP2Y0A21



Smart RGB Led WS2812B



Motor 2

Motor 1

DC Motors 298:1 with encoders



DFRobot TB6612FNG  
Dual Motor Driver



Shield 5V DC  
Voltage Regulator

Bat OUT

Bat IN

5V DC Voltage  
Regulator

↕ USB Power

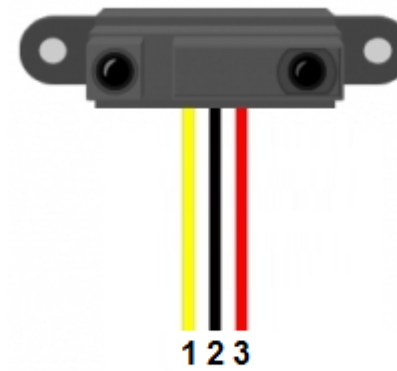
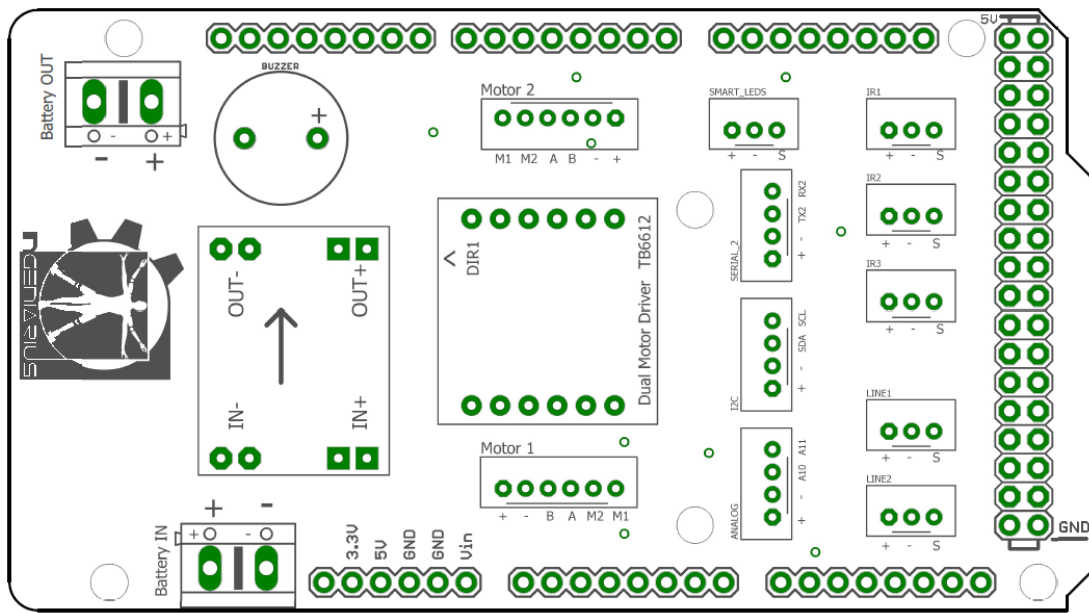
↕ USB Power



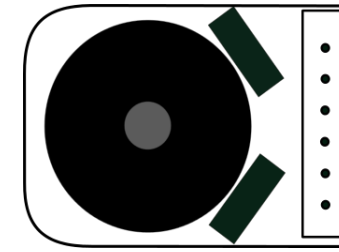
7.4V Battery

ON-OFF  
Power Switch





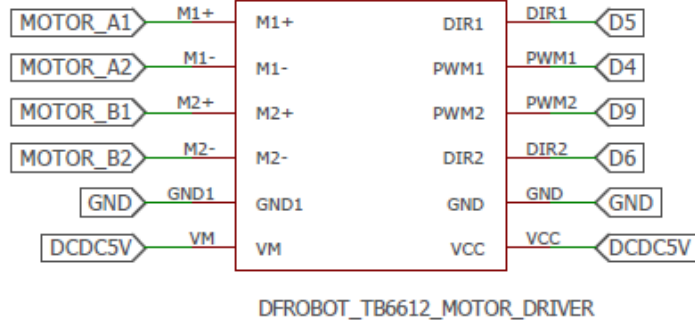
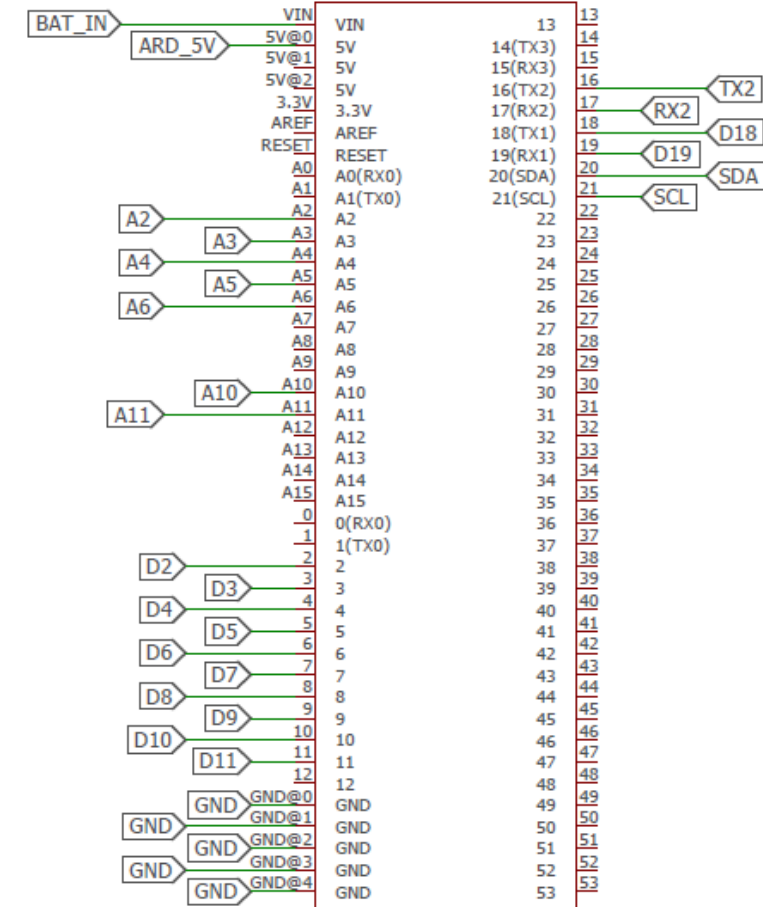
1- Signal  
2- GND  
3- Vcc (+5V)



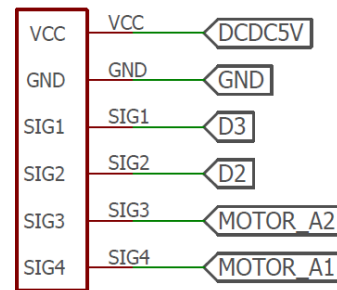
Micro Metal Gearmotor 298:1  
w/Encoder

- 1.Motor M2
- 2.Encoder + (3.3V/5V)
- 3.Encoder A Phase
- 4.Encoder B Phase
- 5.Encoder GND
- 6.Motor M1

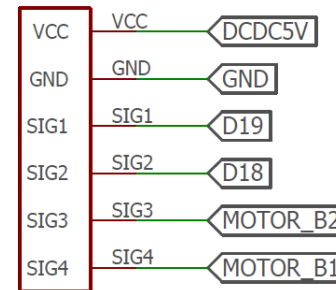
Arduino Mega 2560



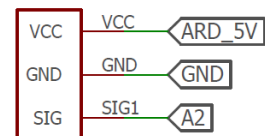
Motor\_1



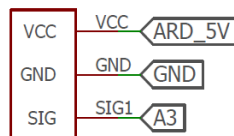
Motor\_2



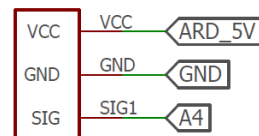
IR\_1



IR\_2



IR\_3



Smart RGB

