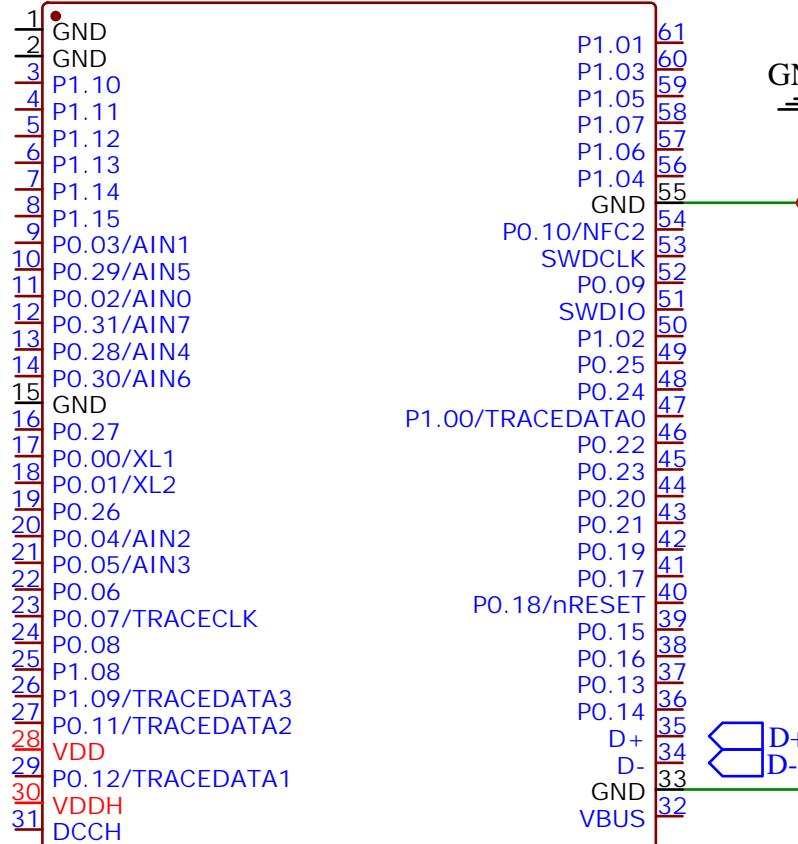
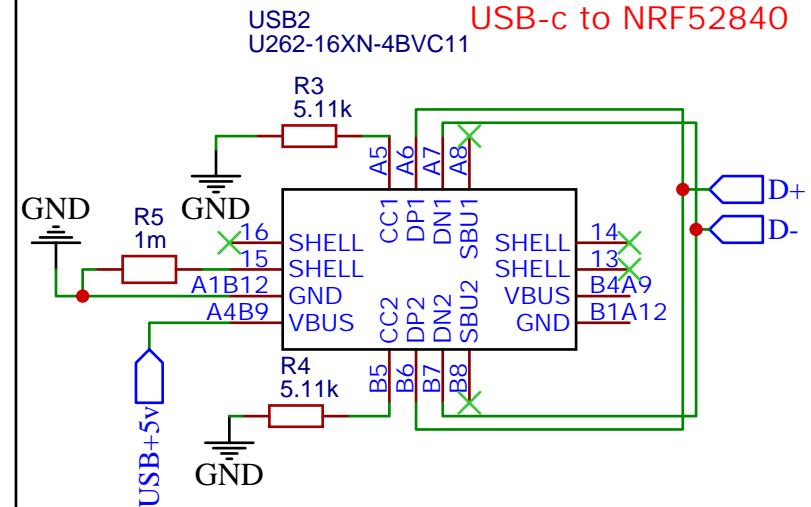


1 2 3 4 5

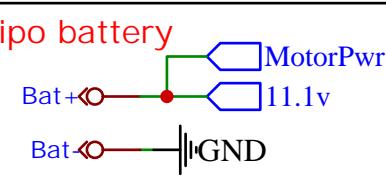
U9
MDBT50Q-U1MV2



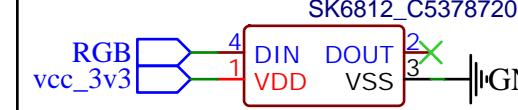
Pinouts



Lipo battery



RGB LED



P1.00/TRACEDATA0

P0.18/nRESET

P0.15

P0.16

P0.13

P0.14

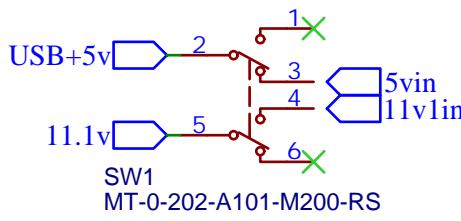
D+

D-

GND

VBUS

Power input control / on-off switch



MotorSig1

MotorSig2

GPIO0

RGB

Motor options:

https://outofdarts.com/products/valkyrie-130-motor?_pos=1&_sid=6f64aaaa5&_ss=r
https://outofdarts.com/products/valkyrie-130-motor?_pos=1&_sid=6f64aaaa5&_ss=r

Unidirectional 1-CH 3a brushed motor driver reference schematic:

<https://drive.google.com/file/d/17xUgXEI22WaURxTpSgtpU4E6HHX6Qwev/view?usp=sharing>

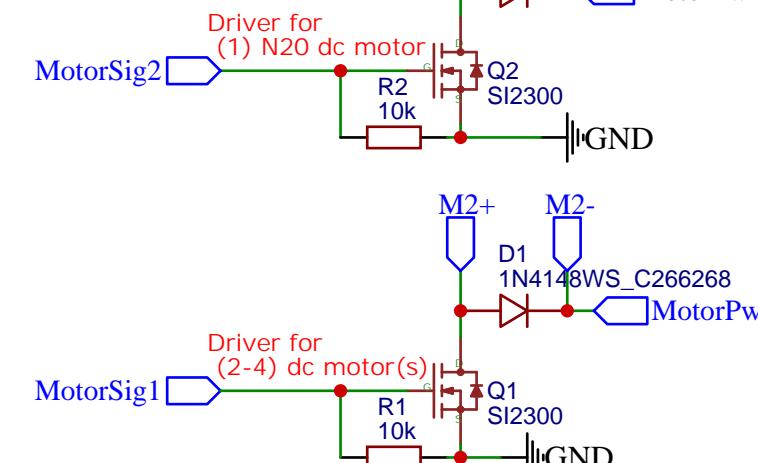
ESP32-S3-Wroom-1(r16n8) module reference schematic:

https://dl.espressif.com/dl/SCH_ESP32-S3-DEVKITC-1_V1_20210312C.pdf

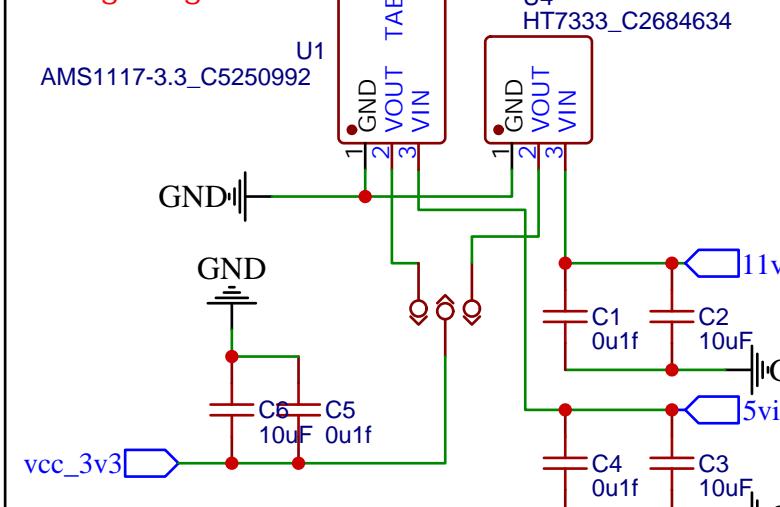
ESP32-S3-Wroom-1(r16n8) datasheet:

https://www.espressif.com/sites/default/files/documentation/esp32-s3-wroom-1u_datasheet_en.pdf

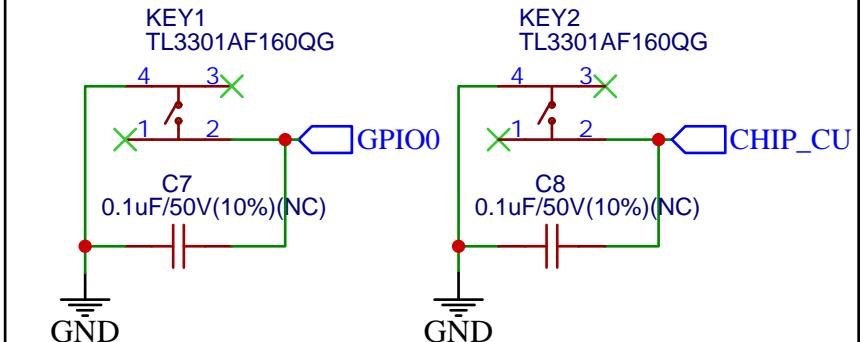
Motor driver



Voltage regulators



Reset and Boot Buttons



TITLE:

Blaster Board

REV: 1.0

EasyEDA

Company: Your Company

Sheet: 1/1

Date: 2020-08-12 Drawn By: SomebodiesDad

Materials

Motor options:

A https://outofdarts.com/products/valkyrie-130-motor?_pos=1&_sid=6f64aaaa5&_ss=r
 https://outofdarts.com/products/valkyrie-130-motor?_pos=1&_sid=6f64aaaa5&_ss=r

Cherry switches - https://outofdarts.com/products/10a-microswitch-cherry-db2?variant=40751159377962

N20 dc motor - https://outofdarts.com/products/n20-metal-gear-motor-micro-size-300-3000rmp-multiple-options

Lipo battery- https://a.co/d/4VnIRv2

B

B

C

C

D

D

Unidirectional 1-CH 3a brushed motor driver reference schematic:
<https://drive.google.com/file/d/17xUgXEI22WaURxTpSgtpU4E6HHX6Qwev/view?usp=sharing>

ESP32-S3-Wroom-1(r16n8) module reference schematic:
https://dl.espressif.com/dl/SCH_ESP32-S3-DEVKITC-1_V1_20210312C.pdf

ESP32-S3-Wroom-1(r16n8) datasheet:
https://www.espressif.com/sites/default/files/documentation/esp32-s3-wroom-1_wroom-1u_datasheet_en.pdf

TITLE: Sheet_1		REV: 1.0
 EasyEDA	Company: Your Company	Sheet: 1/1
	Date: 2025-06-04	Drawn By: donovan jackson