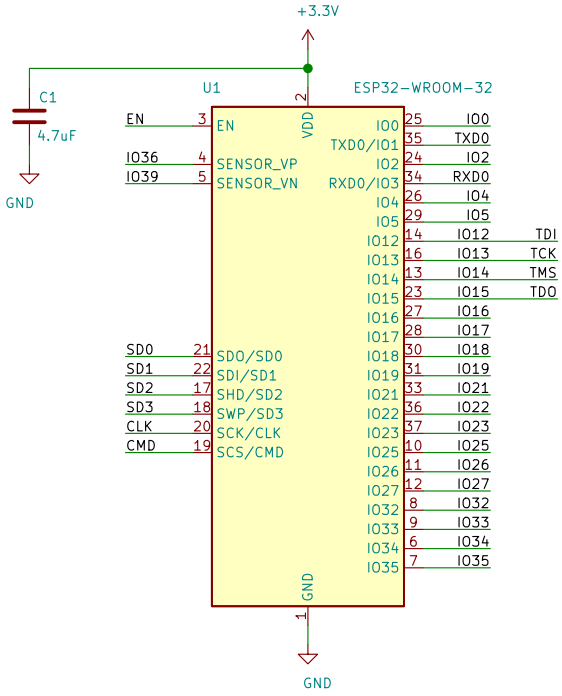
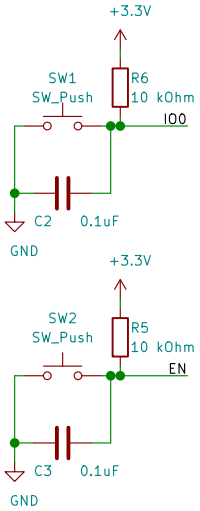
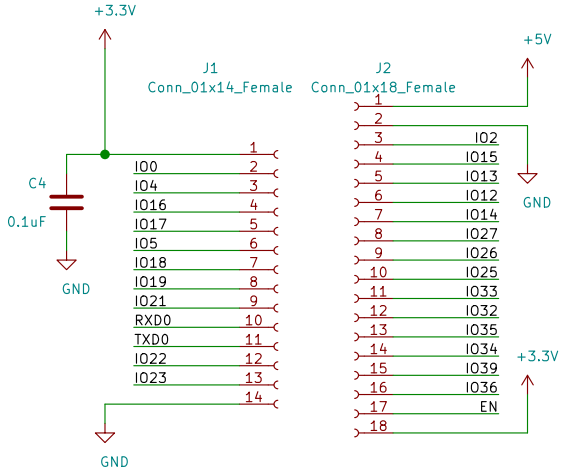
ESP-32

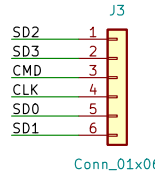


Buttons



Board interface

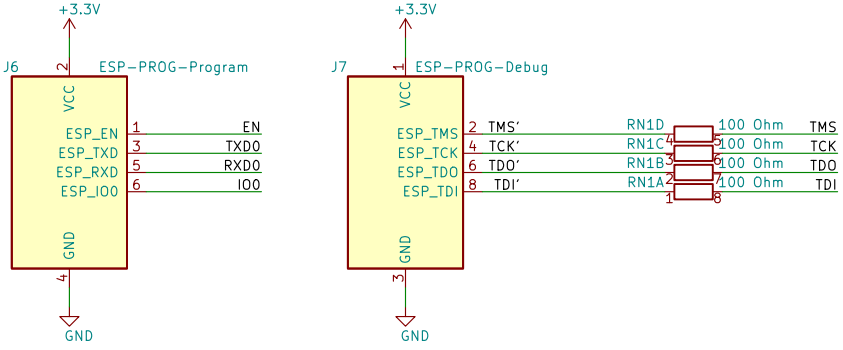




* from ESP-WROOM-32 datasheet:

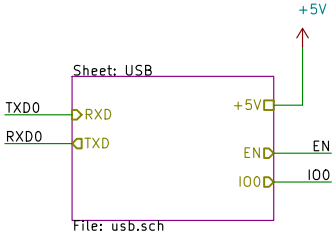
Pins SCK/CLK, SDO/SD0, SDI/SD1, SHD/SD2, SWP/SD3 and SCS/CMD, namely, GPIO6 to GPIO11 are connected to the integrated SPI flash integrated on the module and are not recommended for other uses.

ESP-Prog interface

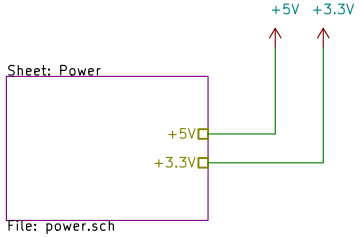


Source: https://docs.espressif.com/projects/espressif-esp-iot-solution/en/latest/hw-reference/ESP-Prog_guide.html

USB



Power



Footprint

N1
Arduino Footprint

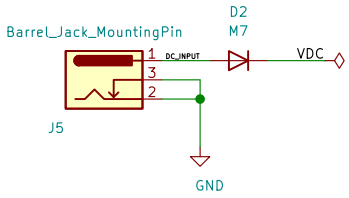
ESP-32 development kit with Micro-USB port, DC Input and ESP-PROG interface.
Author: rafw87

Sheet: /
File: esp-32-board.sch

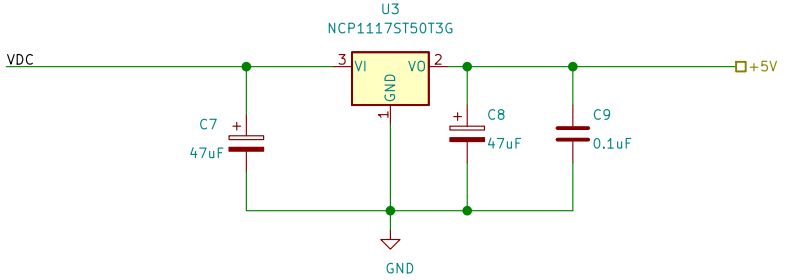
Title: ESP-32-Board

Size: A4	Date: 2021-07-14	**Rev: 1**
KiCad E.D.A.	eeschema 5.1.9+dfsg1-1bpo10+1	Id: 1/3

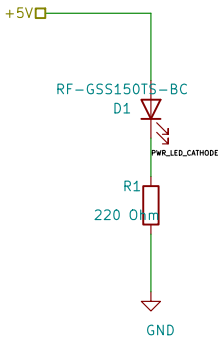
DC jack



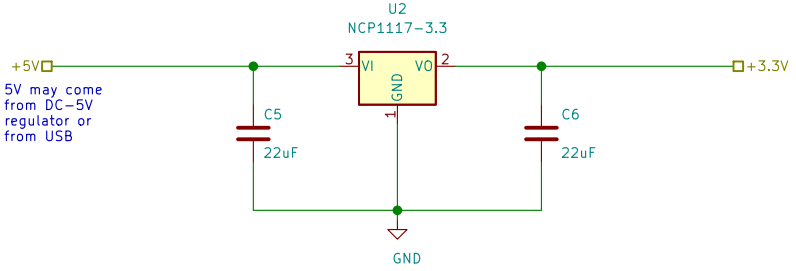
DC to 5V regulator



LED



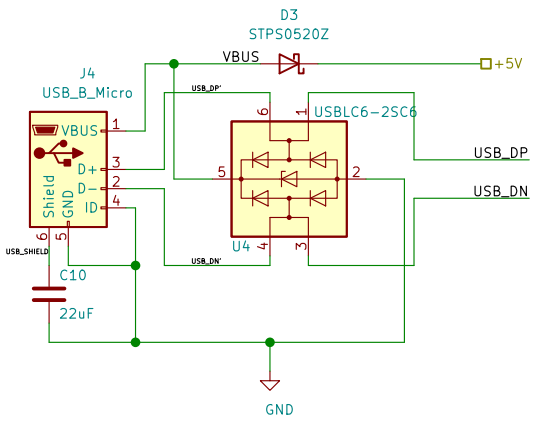
5V to 3.3V regulator



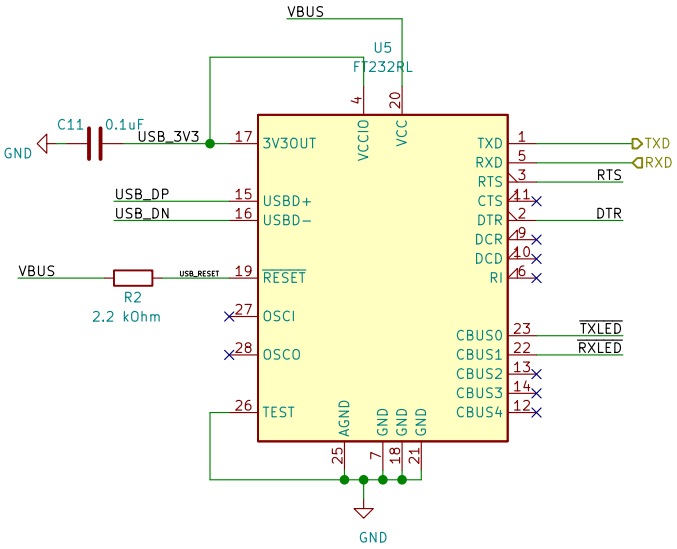
ESP-32 development kit with Micro-USB port, DC Input and ESP-PROG interface.
Author: rafw87

Sheet: /Power/ File: power.sch		
Title: ESP-32-Board		
Size: A4	Date: 2021-07-14	**Rev: 1**
KiCad E.D.A. eeschema 5.1.9+dfsg1-1bpo10+1		Id: 2/3

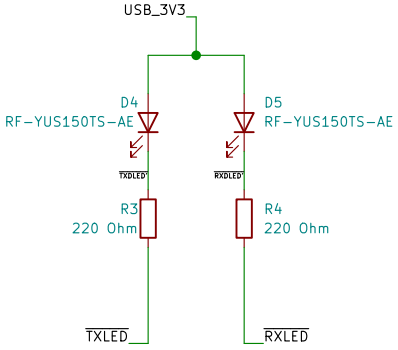
USB port with ESD protection



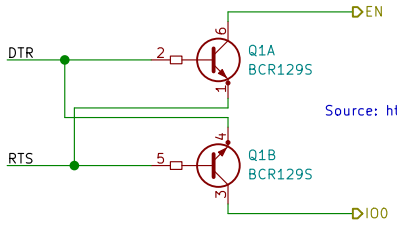
USB to UART



LEDs



Auto-reset circuit



Source: https://dl.espressif.com/dl/schematics/esp32_devkitc_v4-sch-20180607a.pdf

DTR	RTS	->	EN	IO0
1	1		1	1
0	0		1	1
1	0		0	1
0	1		1	0

ESP-32 development kit with Micro-USB port, DC Input and ESP-PROG interface.
Author: rafw87

Sheet: /USB/
File: usb.sch

Title: ESP-32-Board

Size: A4	Date: 2021-07-14	**Rev: 1**
KiCad E.D.A.	eeschema 5.1.9+dfsg1-1bpo10+1	Id: 3/3