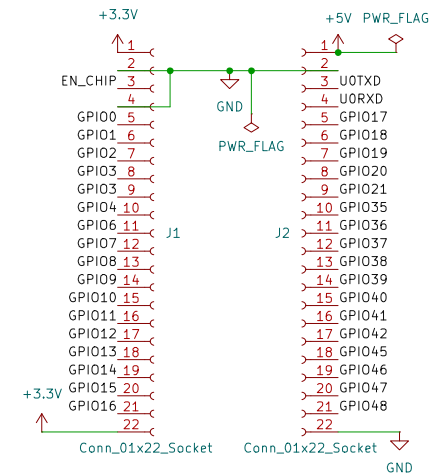


Pinout diagram of the ESP32-S3 WROOM-1 module. The diagram shows a green PCB with pins numbered 1 to 37. Pin 1 is GND, Pin 2 is 3V3, Pin 3 is EN\_CHIP, Pin 4 is EN, Pin 5 is TXD0, Pin 6 is RXD0, Pin 7 is GPIO0, Pin 8 is GPIO1, Pin 9 is GPIO2, Pin 10 is GPIO3, Pin 11 is GPIO4, Pin 12 is GPIO5, Pin 13 is GPIO6, Pin 14 is GPIO7, Pin 15 is GPIO8, Pin 16 is GPIO9, Pin 17 is GPIO10, Pin 18 is GPIO11, Pin 19 is GPIO12, Pin 20 is GPIO13, Pin 21 is GPIO14, Pin 22 is GPIO15, Pin 23 is GPIO16, Pin 24 is TXD0, Pin 25 is RXD0, Pin 26 is GPIO17, Pin 27 is GPIO18, Pin 28 is GPIO19, Pin 29 is GPIO20, Pin 30 is GPIO21, Pin 31 is GPIO28, Pin 32 is GPIO35, Pin 33 is GPIO37, Pin 34 is GPIO38, Pin 35 is GPIO39, Pin 36 is GPIO40, Pin 37 is GPIO41. The diagram also shows the power supply pins: 3V3 and GND. The module is labeled 'U1 ESP32-S3-WROOM-1'.

[illegible]

U4  
USB\_C\_Receptacle\_USB2.0\_14P VBUS

VBUS A4 5.1K R7

CC1 A5

CC2 B5

D- A7 DN

D+ A6 DP

SHIELD

GND

R8 5.1K

GND

The diagram shows a crystal oscillator circuit. A crystal Y1 (12 MHz) is connected between nodes X0 and XI. Resistor R5 (1K) is in series with X0, and resistor R6 (0R) is in series with XI. Capacitor C9 (15pF) is connected from X0 to ground, and capacitor C10 (15pF) is connected from XI to ground. The crystal has pins 1, 2, 3, and 4, with pin 3 connected to ground.

The diagram shows a microcontroller pin labeled GPIO38 connected to the DIN pin (pin 4) of a WS2812B driver chip. A resistor R4 (0Ω) is placed between the microcontroller pin and the DIN pin. The VSS pin (pin 1) and GND pin (pin 3) of the WS2812B are connected to a common ground. The DOUT pin (pin 2) of the WS2812B is connected to the anode of an LED1 (RED). A 100nF capacitor C8 is connected between the DOUT pin and ground. The cathode of the LED1 is connected to ground. The LED1 is labeled LED1 RED.

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