

Application note:
Pinout between ESP32-S2-SOLO-1U is the same as ESP-S3-WROOM except for pins 24/25

Microcontroller

On ESP32-S2, these are IO33/34.
On ESP32-S3, these are IO47/48.

ON ESP32-S3-R8, IO pins 35-37 are used by PSRAM.
This will cause the chip to malfunction.
DO NOT USE AN ESP32-S3 MODULE WITH PSRAM

Status LEDs

User Buttons

Input buttons with low-pass DC filters.

The RC circuit debounces the button press, making interrupts more accurate.

The debounce time is determined by $t = R \cdot C$

For this case, $t = 10000 \times 0.000001 = 10 \text{ ms}$

Peripherals

3DOF Magnetometer

6DOF IMU

