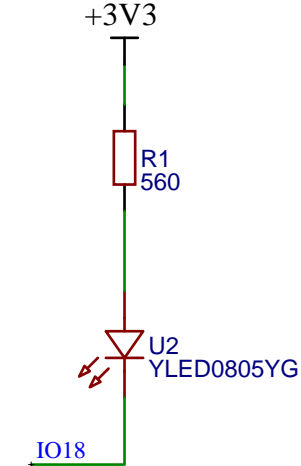
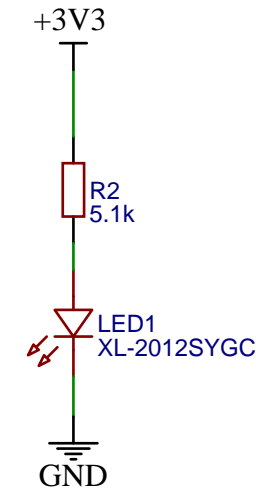
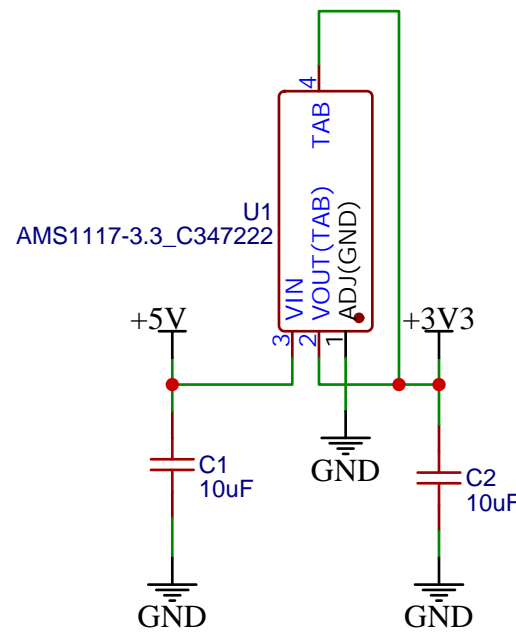


## 5V TO 3.3V



J4  
210-1S-1\*3Ppin Gold-plated

+5V\_EXT

+5V\_VBUS

+5V

# TO SERIAL(UART)

# ET BUTTON

The diagram shows the ET Button circuit. It includes a +3V3 power supply, a 10k resistor (R13), a 100nF capacitor (C11), a push-button switch (SW1), and a microcontroller (PTS645K43SMTR92LFS). The button's pins are connected to the power supply and ground through the resistor and capacitor. The microcontroller is connected to the button's pins and the ground plane.

The image displays two circuit diagrams for the X6511WV-17H-C30D60 module, labeled J1 and J2. Both diagrams show the module's pin connections to power and ground.

**Module J1:**

- Pin 1:** Connected to +3V3.
- Pin 2:** Connected to +3V3.
- Pin 3:** EN
- Pin 4:** I36
- Pin 5:** I39
- Pin 6:** I34
- Pin 7:** I35
- Pin 8:** IO32
- Pin 9:** IO33
- Pin 10:** IO25
- Pin 11:** IO26
- Pin 12:** IO27
- Pin 13:** IO14
- Pin 14:** IO12
- Pin 15:** +5V\_EXT
- Pin 16:** IO13
- Pin 17:** Connected to GND.

**Power and Ground Connections for J1:**

- +3V3:** Connected to pins 1 and 2.
- GND:** Connected to pins 17 and 16 (via capacitor C7, 100nF).
- +5V\_EXT:** Connected to pin 15.
- GND:** Connected to pin 16 (via capacitor C12, 100nF).


**Module J2:**

- Pin 1:** Connected to +3V3.
- Pin 2:** Connected to +3V3.
- Pin 3:** IO23
- Pin 4:** IO22
- Pin 5:** TXD0
- Pin 6:** RXD0
- Pin 7:** IO21
- Pin 8:** IO19
- Pin 9:** IO18
- Pin 10:** IO18
- Pin 11:** IO5
- Pin 12:** IO17
- Pin 13:** IO16
- Pin 14:** IO4
- Pin 15:** IO0\_CON
- Pin 16:** IO2
- Pin 17:** IO15

**Power and Ground Connections for J2:**

- +3V3:** Connected to pins 1 and 2.
- GND:** Connected to pins 17 and 16 (via capacitor C8, 100nF).

ESP32 Module Reference Schematic 2: [https://dl.espressif.com/dl/schematics/ESP32-S2-DevKitM-1\\_V1\\_Schematics.pdf](https://dl.espressif.com/dl/schematics/ESP32-S2-DevKitM-1_V1_Schematics.pdf)

|   |                  |                           |
|---|------------------|---------------------------|
| TITLE: ESP32  |                  | REV: 1.0                  |
|  | Company: Helios  | Sheet: 1/1                |
|   | Date: 2024-07-31 | Drawn By: Rakshith Suresh |