

# ESP32

## ESP-IDF

1. Install vscode
  1. Install ESP-IDF extension
2. Install git

1.
 

```
$ brew install git
```

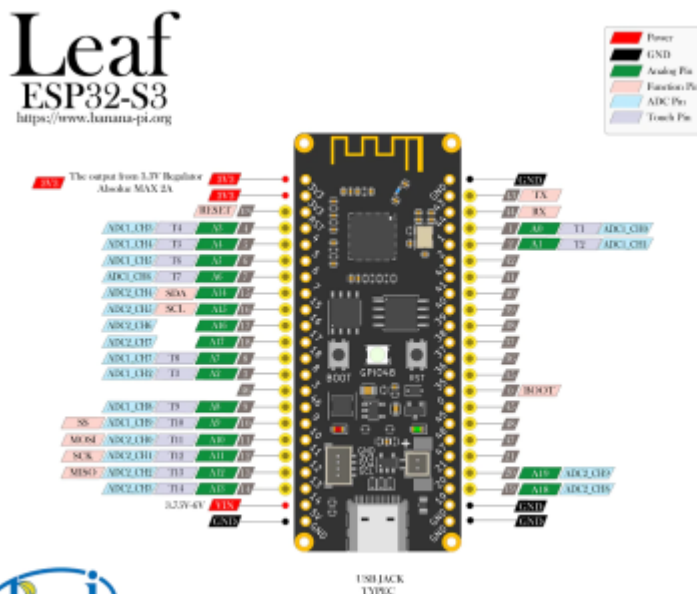
3. Install Python, Download at <https://www.python.org/downloads/>

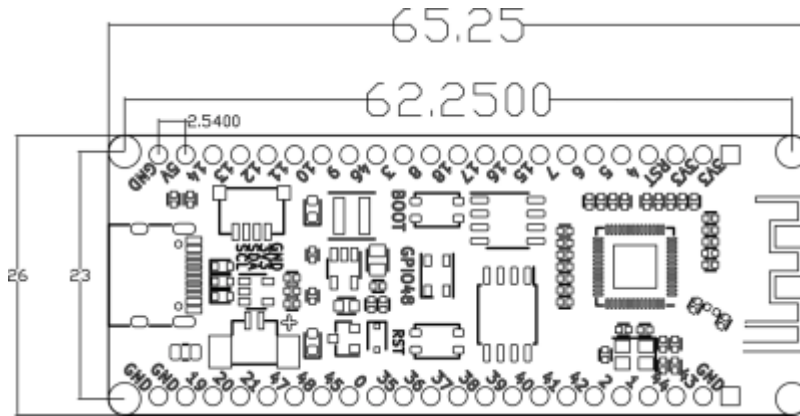
Standard Setup of Toolchain for Mac OS

## Pins

- TTGO T-DISPLAY ESP32;  $12 * 2 = 24$
- ESP32 (30pin);  $15 * 2 = 30$
- BPI ESP32 S3;  $22 * 2 = 44$

## Banana Pi ESP32 S3 (BPI-Leaf-S3)





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- 바나나 파이 리프 ESP32 S3 실행 가능한 Micropython 저전력 에너지 절약 마이크로 컨트롤러, IoT 개발을 위해 설계 @aliexpress.com
- BPI-Leaf-S3
- 1 \* JST SH 1mm 4-Pin Socket, support I2C
- 1 \* MX 1.25mm 2-Pin Socket support charging

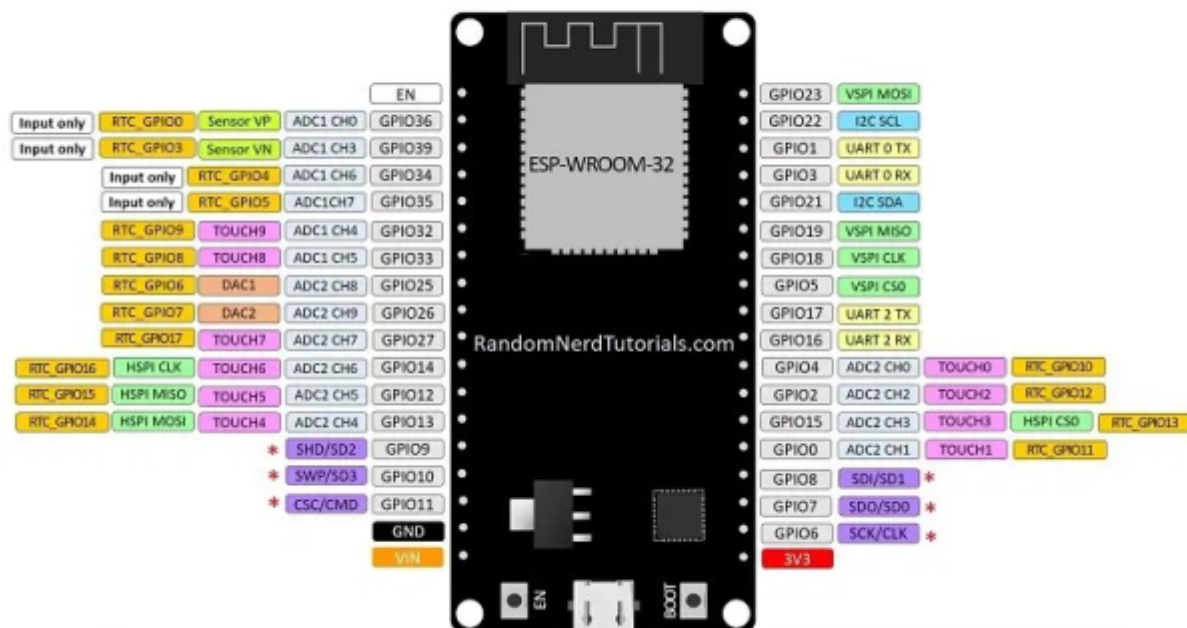
## TTGO T-DISPLAY

- 2 pin JST SH 1.25 connector.
- LILYGO® TTGO T-Display ESP32 WiFi and Bluetooth Module Development Board For Arduino 1.14 Inch LCD
- LILYGO® TTGO T-Display ESP32 WiFi and Bluetooth Module Development Board For Arduino 1.14 Inch LCD(1)(1)(1)(1)

## PINS

## ESP32 DEVKIT V1 – DOIT

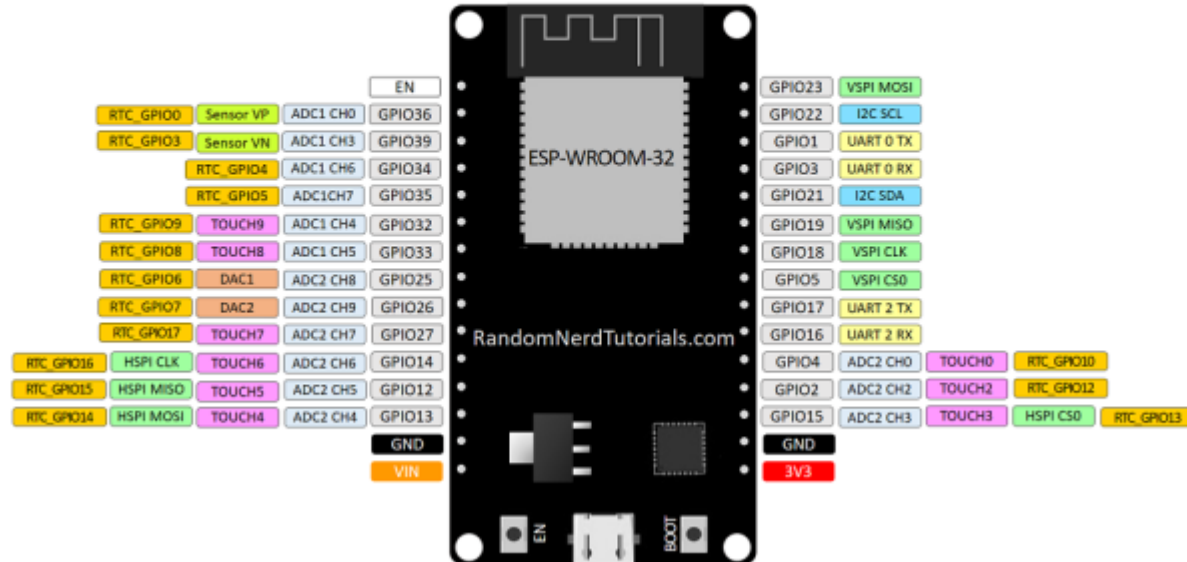
### version with 36 GPIOs

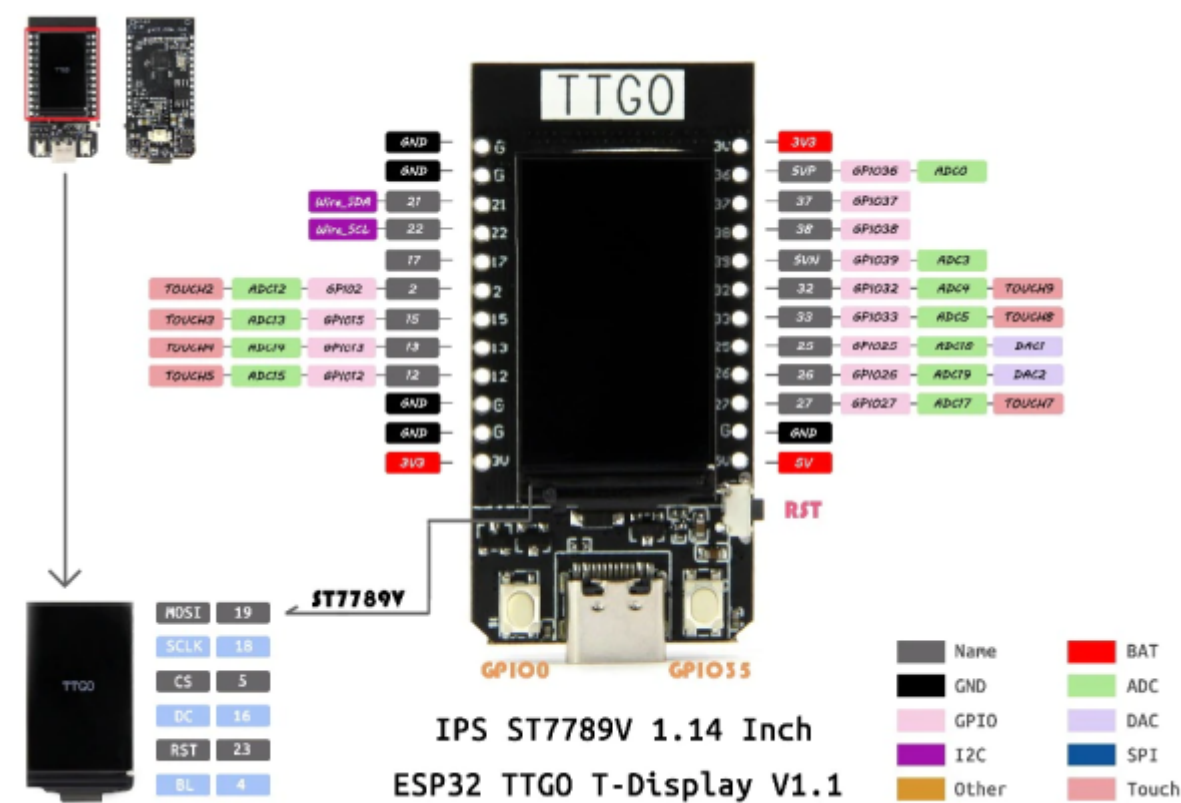


\* Pins SCK/CLK, SDO/SD0, SDI/SD1, SHD/SD2, SWP/SD3 and SCS/CMD, namely, GPIO6 to GPIO11 are connected to the integrated SPI flash integrated on ESP-WROOM-32 and are not recommended for other uses.

## ESP32 DEVKIT V1 – DOIT

### version with 30 GPIOs





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