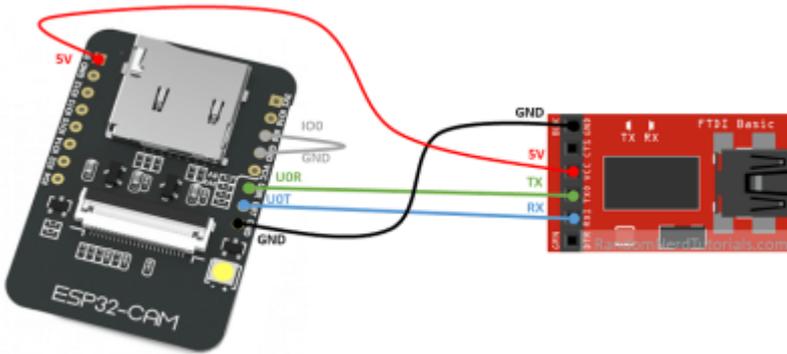


ESP32

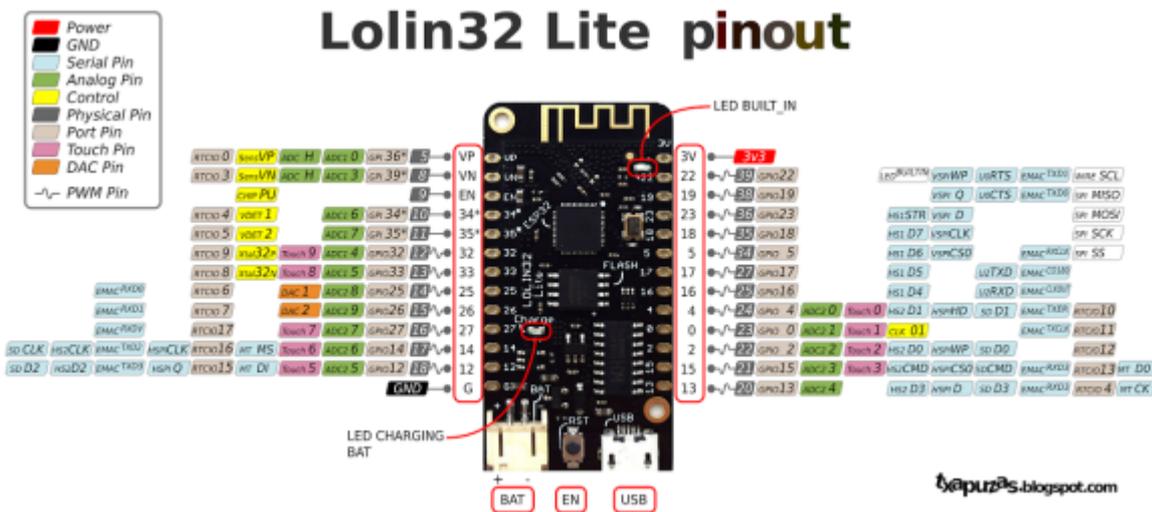
how to use pins esp32 chip only

ESPCAM



- upload code: GPIO 0 needs to be connected to GND
- run code: remove GPIO 0 from GND and press the RST button

Lolin32 lite



- [platformio specifications](#)
- ESP32 Module: ESP-WROOM-32 from Espressif.
- 240MHz dual core microprocessor equipped with
- 4MB SPI flash memory. Support up to 16MB of flash memory
- Connectivity
- WiFi 802.11 b / g / n.
- Security WEP, WPA / WPA2 PSK / Enterprise.
- Integrated cryptographic chip supporting AES / SHA2 / Elliptical Curve Cryptography / RSA-4096 algorithms

- Maximum power for data transfer: 19.5 dBm@11b, 16.5 dBm@11g, 15.5 dBm@11n
- Sensitivity max. reception: -97 dBm
- Bluetooth 4.0 LE
- 32 Inputs / Outputs
- 26x Digital I / O (3.3V). All outputs can be PWM
- 18x analog inputs
- 3x UART
- 3x SPI
- 2x I2S
- 2x DAC
- 2x I2C
- Sleep Mode Consumption: 5 μ A
- Integrated sensors
- Hall Effect
- 10x inputs for capacitive touch interface
- LiPo battery connector JST XH2-2.54mm

LILYGO TTGO T5 V2.3_2.13

- <https://fr.aliexpress.com/item/32869729970.html>
- display: GxGDEM0213B74
- SKU: H239 2-colors
 - platformio project: <https://github.com/Xinyuan-LilyGO/T5-Ink-Screen-Series>
 - #define LILYGOT5V213
 - #include <GxDEPG0213BN/GxDEPG0213BN.h>

AZ-Delivery D1 Mini ESP32

pinout

datasheet

TTGO ESP32

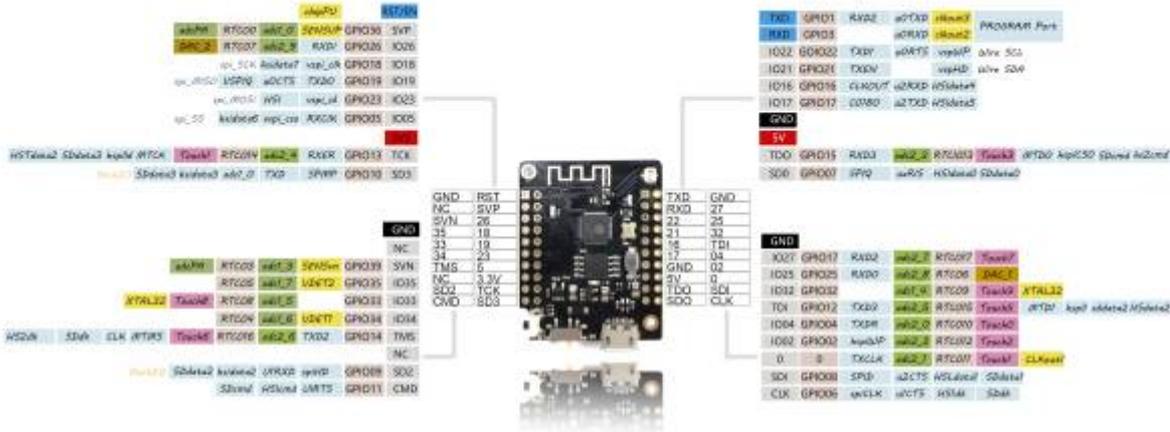
builtin led pin 22

ESP32 devkit v1 [TTGO mini32 ESP32 bangood amazon](#)

Chip is ESP32D0WDQ6 (revision 1)

Features: WiFi, BT, Dual Core, 240MHz, VRef calibration in efuse

- PIN 22 is connected to green LED



WiFi + Bluetooth Board
4MB Flash MINI 32 v2.0

Power
 ESP32 VCC range: 2.2V-3.6V
 VBAT: direct to battery (and charger)
 USB: direct to USB (5V)
 VCC: Output of regulator 3.3V/600mA
 Up to 250mA during RF transmissions

Wireless
 Wifi: 802.11 b/g/n/e/l
 WPA/WPA2/WPA2-Enterprise/SPS
 Bluetooth: Bluetooth 4.2/BLE

ESP32
 Dual-core Xtensa 32-bit LX6
 Up to 240MHz
 520KB internal SRAM
 4MB external flash

Multiplexed I/Os allow up to
 18 ADC channels
 3 SPI interfaces
 3 UART interfaces
 2 I2C interfaces
 2 I2S interfaces
 16 LED PWM outputs
 2 DACs
 10 Capacitive Touch Inputs

ADC Preamp
 GPIO pins 36, 37, 38, and 39 are able to be used as a low noise analog pre-amplifier

Other*
 Hall Sensor
 Temp sensor (-40C to 125C)
 SD/SDI/O/MMC Host Controller
 CAN Bus

*On datasheet, but may not be supported yet

Name: ADC
 DAC
 SPI
 Control
 Arduino
 GPIO
 Misc

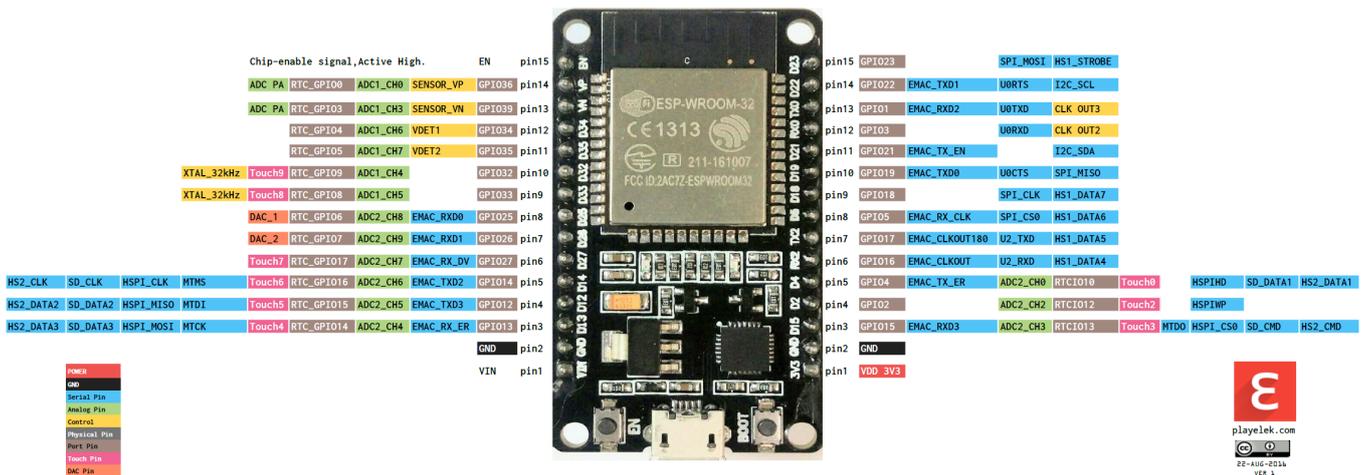
*GPIO: Port Input Only
 *ADC: Pre-amplifier ADC
 GPIO 3.3V tolerant only

- [arduino example](#)

DOIT ESP32

DOIT ESP32 DEVKIT V1

PINOUT

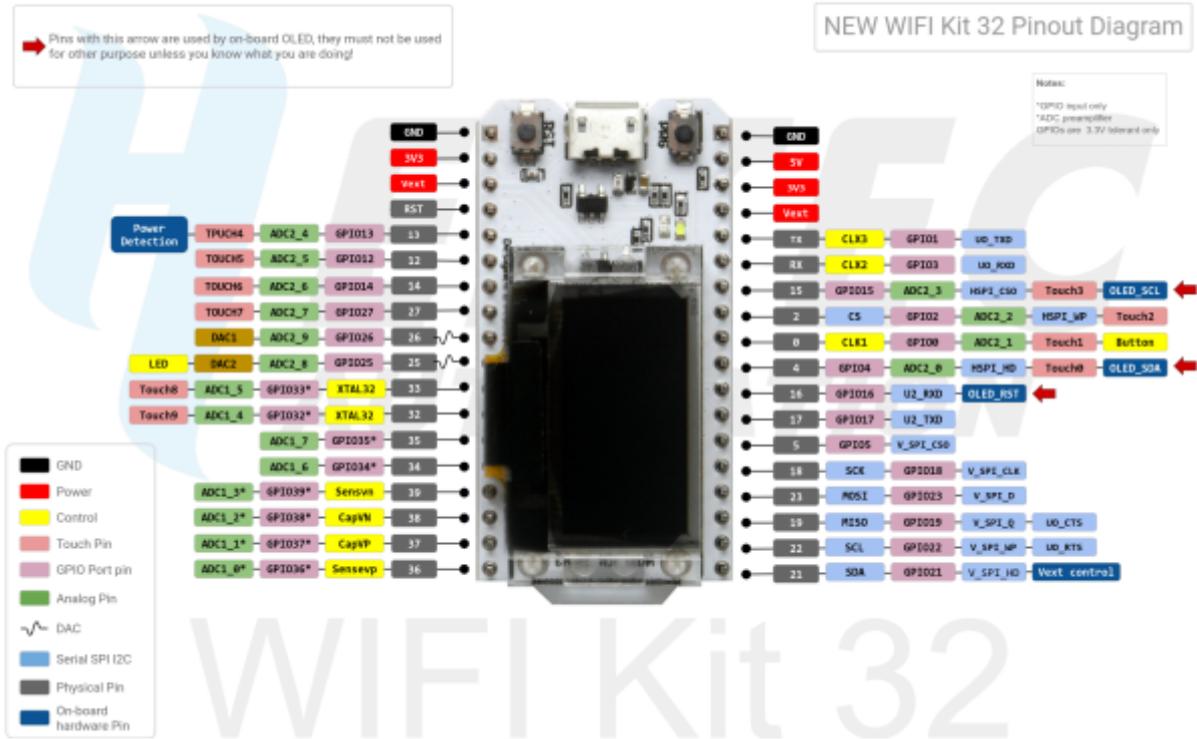


physical pinout

MakerHawk ESP32 OLED Display

- [resources](#)
- [github lib](#)

- pins arduino



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