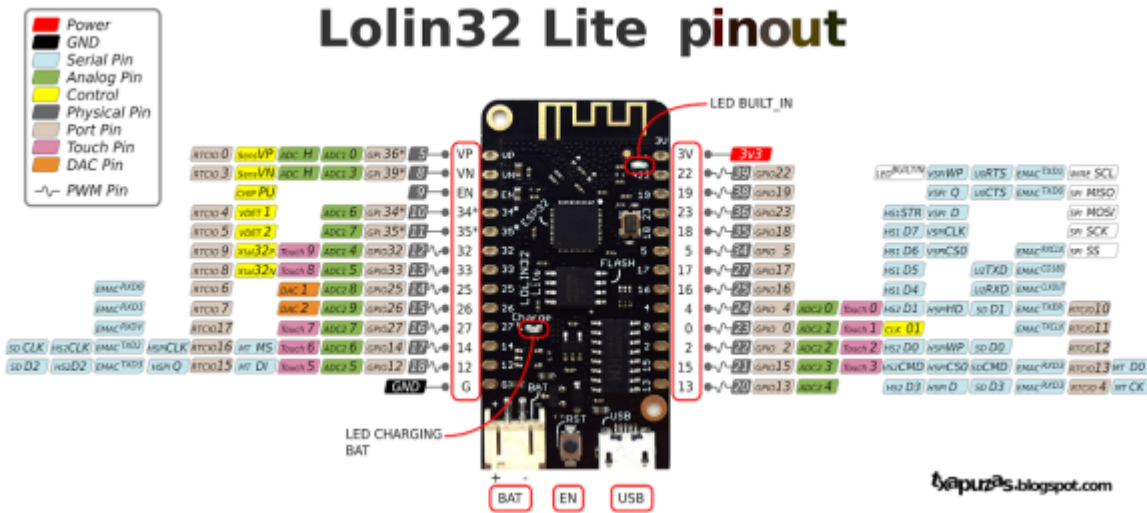


# ESP32

## Lolin32 lite



- 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  $\mu$ 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 LILYGO\_T5\_V213
  - #include <GxDEPG0213BN/GxDEPG0213BN.h>

## AZ-Delivery D1 Mini ESP32

pinout

datasheet

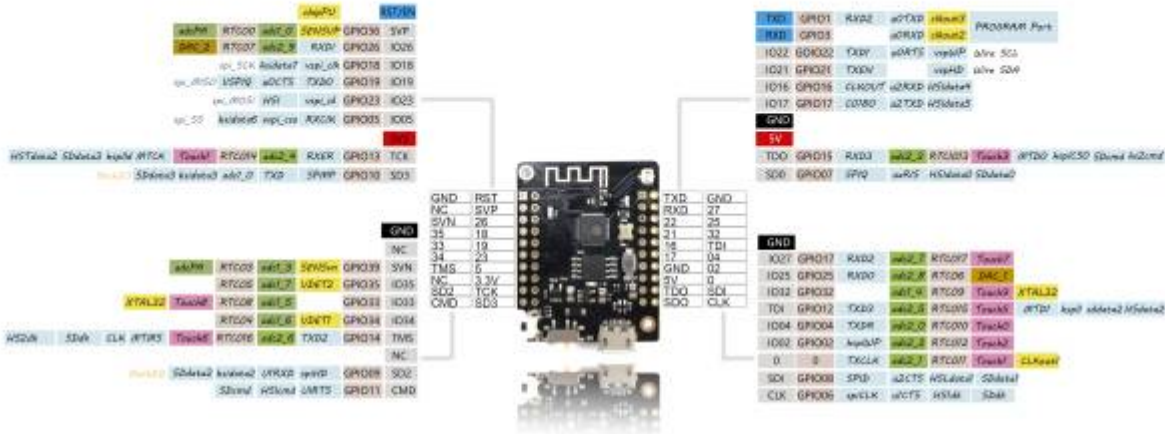
## TTGO ESP32

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/SIO/MMC Host Controller  
 CAN Bus

\*On datasheet, but may not be supported yet

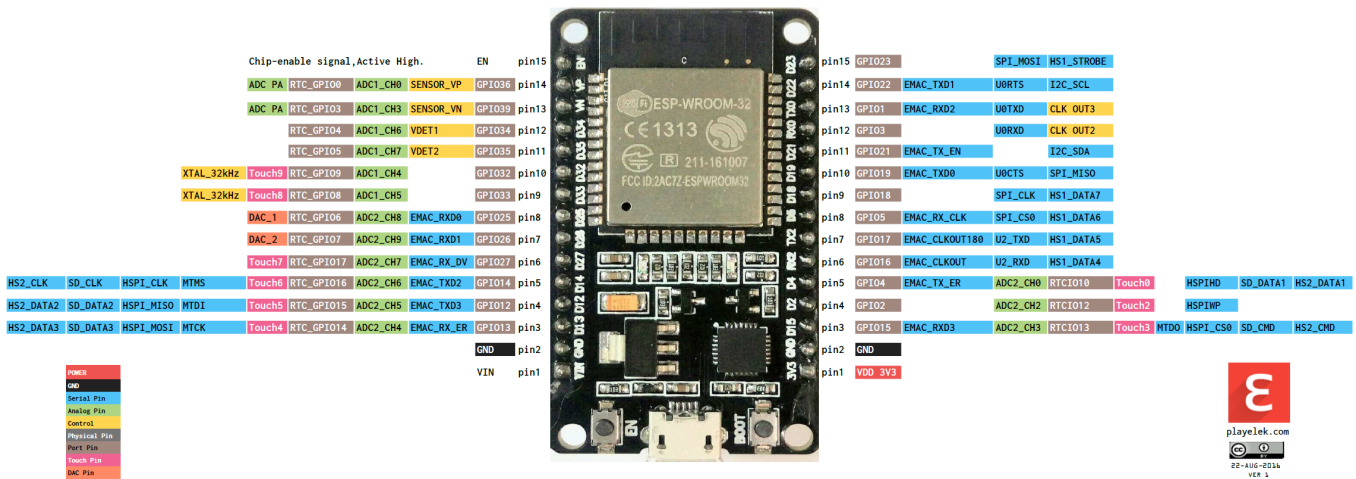
Name	Color
ADC	Green
DAC	Yellow
SPI	Blue
UART	Light Blue
Touch	Pink
Misc	Purple

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

- [arduino example](#)

# DOIT ESP32

## DOIT ESP32 DEVKIT V1 PINOUT

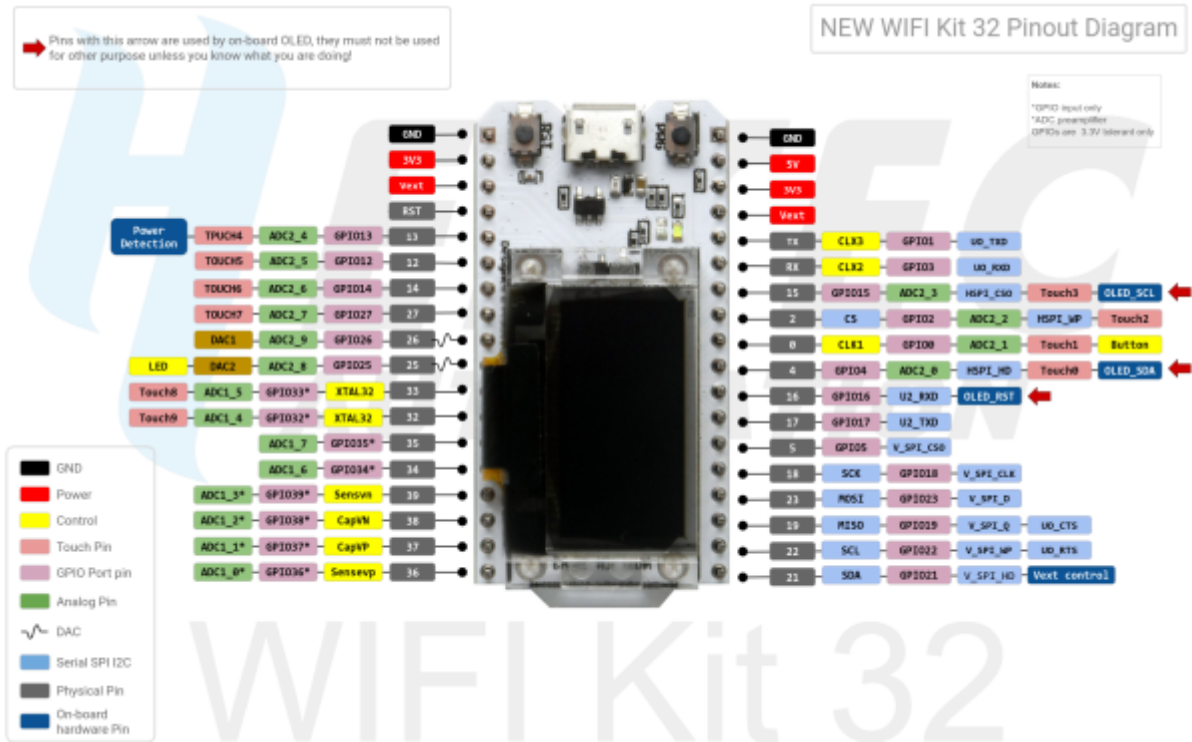


physical pinout

# MakerHawk ESP32 OLED Display

- [resources](#)

- [github lib](#)
- [pins arduino](#)



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