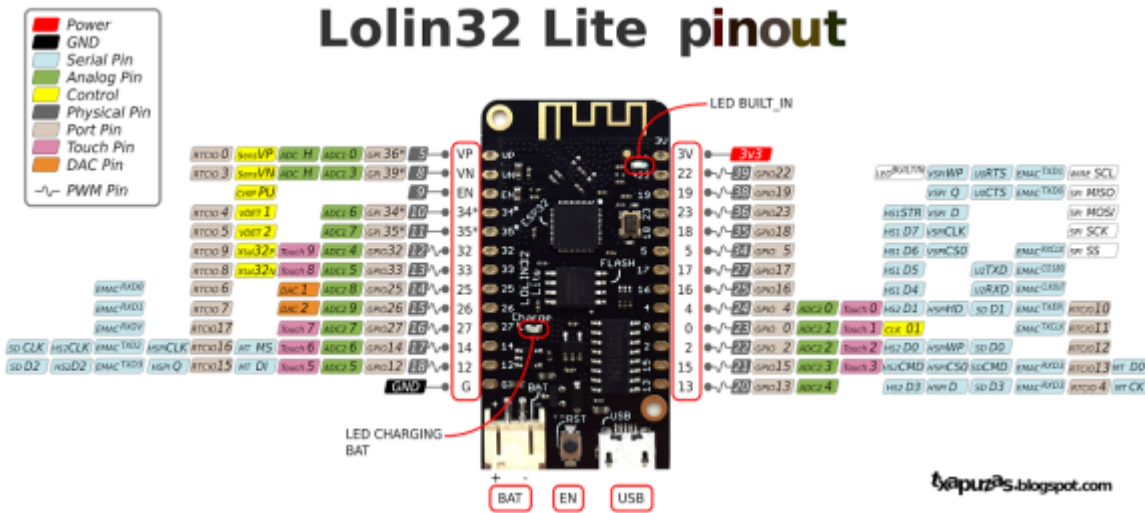


# ESP32

## Lolin32 lite



## 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/i  
 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/SDIO/MMC Host Controller
- CAN Bus

\*On datasheet, but may not be supported yet

**Legend:**

- ADC
- DAC
- SPI
- UART
- Touch
- Misc

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

- [arduino example](#)

## DOIT ESP32

### DOIT ESP32 DEVKIT V1 PINOUT

Chip-enable signal, Active High. EN pin15

ADC\_PA RTC\_GPI00 ADC1\_CH0 SENSOR\_VP GPI036 pin14

ADC\_PA RTC\_GPI03 ADC1\_CH3 SENSOR\_VN GPI039 pin13

RTC\_GPI04 ADC1\_CH6 VDET1 GPI034 pin12

RTC\_GPI05 ADC1\_CH7 VDET2 GPI035 pin11

XTAL\_32KHZ Touch8 RTC\_GPI09 ADC1\_CH4 GPI032 pin10

XTAL\_32KHZ Touch8 RTC\_GPI08 ADC1\_CH5 GPI033 pin9

DAC\_1 RTC\_GPI06 ADC2\_CH8 EMAC\_RXD0 GPI025 pin8

DAC\_2 RTC\_GPI07 ADC2\_CH9 EMAC\_RXD1 GPI026 pin7

Touch7 RTC\_GPI017 ADC2\_CH7 EMAC\_RX\_DV GPI027 pin6

HS2\_CLK SD\_CLK HSP1\_CLK MTS Touch6 RTC\_GPI016 ADC2\_CH6 EMAC\_TXD2 GPI014 pin5

HS2\_DATA2 SD\_DATA2 HSP1\_MISO MTD1 Touch5 RTC\_GPI015 ADC2\_CH5 EMAC\_TXD3 GPI012 pin4

HS2\_DATA3 SD\_DATA3 HSP1\_MOSI MTKC Touch4 RTC\_GPI014 ADC2\_CH4 EMAC\_RX\_ER GPI013 pin3

GND pin2

VIN pin1

pin15 GPI023 SPI\_MOSI HS1\_STROBE

pin14 GPI022 EMAC\_TXD1 UVRTS I2C\_SCL

pin13 GPI01 EMAC\_RXD2 UVRTD CLK\_OUT3

pin12 GPI03 UVRXD CLK\_OUT2

pin11 GPI021 EMAC\_TX\_EN I2C\_SDA

pin10 GPI019 EMAC\_TXD0 UVRTS SPI\_MISO

pin9 GPI018 SPI\_CLK SPI\_DATA7

pin8 GPI05 EMAC\_RX\_CLK SPI\_CS0 HS1\_DATA6

pin7 GPI017 EMAC\_CLKOUT180 U2\_TXD HS1\_DATA5

pin6 GPI016 EMAC\_CLKOUT U2\_RXD HS1\_DATA4

pin5 GPI04 EMAC\_TX\_ER ADC2\_CH0 RTCIO10 Touch0 HSPIND SD\_DATA1 HS2\_DATA1

pin4 GPI02 ADC2\_CH2 RTCIO12 Touch2 HSPINP

pin3 GPI015 EMAC\_RXD3 ADC2\_CH3 RTCIO13 Touch3 MTD0 HSP1\_CS0 SD\_CMD HS2\_CMD

pin2 GND

pin1 VDD\_3V3

**Legend:**

- Power
- Serial Pin
- Analog Pin
- Control
- Physical Pin
- Touch Pin
- DAC Pin

**Legend:**

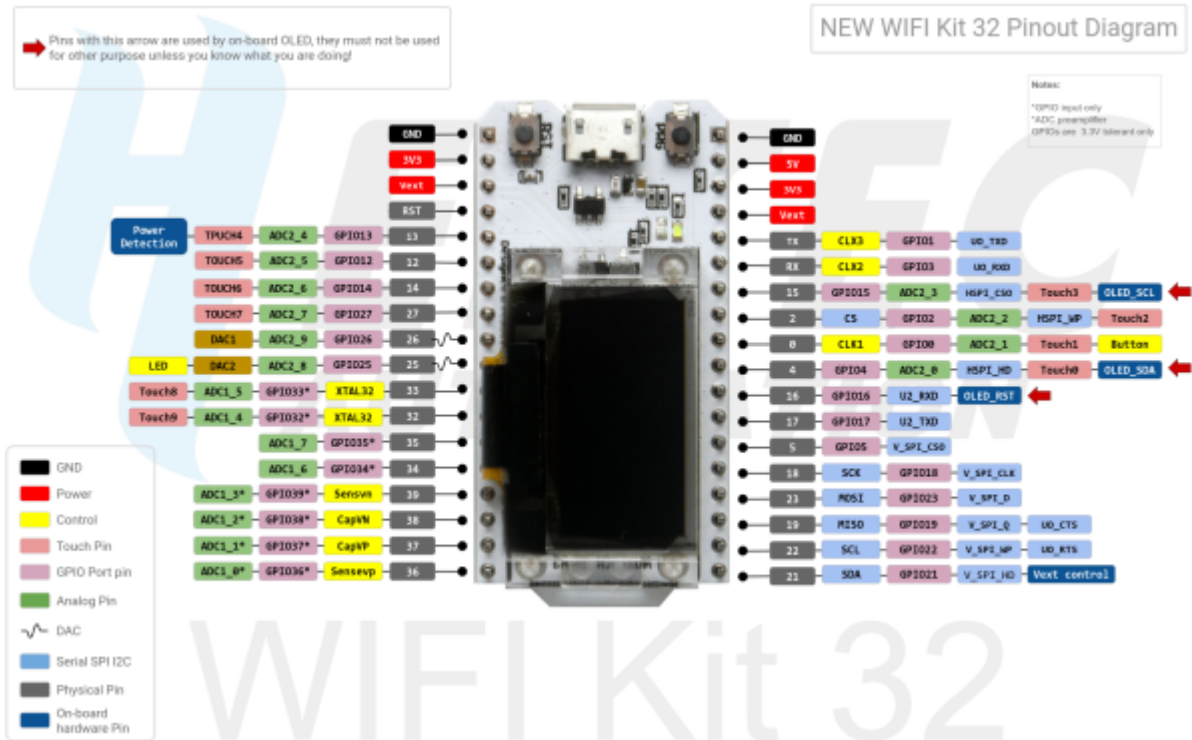
- ADC
- DAC
- SPI
- UART
- Touch
- Misc

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

physical pinout

# MakerHawk ESP32 OLED Display

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



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