

# ESP32

## LILYGO TTGO T5 V2.3\_2.13

- <https://fr.aliexpress.com/item/32869729970.html>
- display: GxDDEM0213B74
- 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

**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

**Legend:**  
 Name: ADC (yellow), DAC (orange), GND (black), SPI (green), Control (blue), UART (purple), Arduino (red), I2C (pink), GPIO (grey), Misc (light blue)  
 \*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\_GPIO0 ADC1\_CH0 SENSOR\_VP GPIO30 pin14

ADC PA RTC\_GPIO3 ADC1\_CH3 SENSOR\_VN GPIO39 pin13

RTC\_GPIO4 ADC1\_CH6 VDET1 GPIO34 pin12

RTC\_GPIO5 ADC1\_CH7 VDET2 GPIO35 pin11

XTAL\_32KHz Touch9 RTC\_GPIO9 ADC1\_CH4 GPIO32 pin10

XTAL\_32KHz Touch8 RTC\_GPIO8 ADC1\_CH5 GPIO33 pin9

DAC\_1 RTC\_GPIO6 ADC2\_CH8 EMAC\_RXD0 GPIO25 pin8

DAC\_2 RTC\_GPIO7 ADC2\_CH9 EMAC\_RXD1 GPIO26 pin7

Touch7 RTC\_GPIO17 ADC2\_CH7 EMAC\_RX\_DV GPIO27 pin6

HS2\_CLK SD\_CLK HSP1\_CLK MTS Touch6 RTC\_GPIO16 ADC2\_CH6 EMAC\_TXD2 GPIO14 pin5

HS2\_DATA2 SD\_DATA2 HSP1\_MISO MTD1 Touch5 RTC\_GPIO15 ADC2\_CH5 EMAC\_TXD3 GPIO12 pin4

HS2\_DATA3 SD\_DATA3 HSP1\_MOSI MTCX Touch4 RTC\_GPIO14 ADC2\_CH4 EMAC\_RX\_ER GPIO13 pin3

GND pin2

VIN pin1

pin15 GPIO023 SPI\_MOSI HS1\_STROBE

pin14 GPIO022 EMAC\_TXD1 U0CTS I2C\_SCL

pin13 GPIO01 EMAC\_RXD2 U0TXD CLK\_OUT3

pin12 GPIO03 U0RXD CLK\_OUT2

pin11 GPIO021 EMAC\_TX\_EN I2C\_SDA

pin10 GPIO19 EMAC\_TXD0 U0CTS SPI\_MISO

pin9 GPIO18 SPI\_CLK HS1\_DATA7

pin8 GPIO05 EMAC\_RX\_CLK SPI\_CS0 HS1\_DATA6

pin7 GPIO17 EMAC\_CLKOUT180 U2\_TXD HS1\_DATA5

pin6 GPIO16 EMAC\_CLKOUT U2\_RXD HS1\_DATA4

pin5 GPIO04 EMAC\_TX\_ER ADC2\_CH0 RTCIO10 Touch0 HSP1HD SD\_DATA1 HS2\_DATA1

pin4 GPIO02 ADC2\_CH2 RTCIO12 Touch2 HSP1WP

pin3 GPIO15 EMAC\_RXD3 ADC2\_CH3 RTCIO13 Touch3 MTD0 HSP1\_CS0 SD\_CHD HS2\_CHD

pin2 GND

pin1 VDD\_3V3

**Legend:**  
 POWER (red), GND (black), Serial Pin (blue), Analog Pin (green), Control (yellow), Physical Pin (orange), I2C Pin (purple), Touch Pin (pink), DAC Pin (light blue)

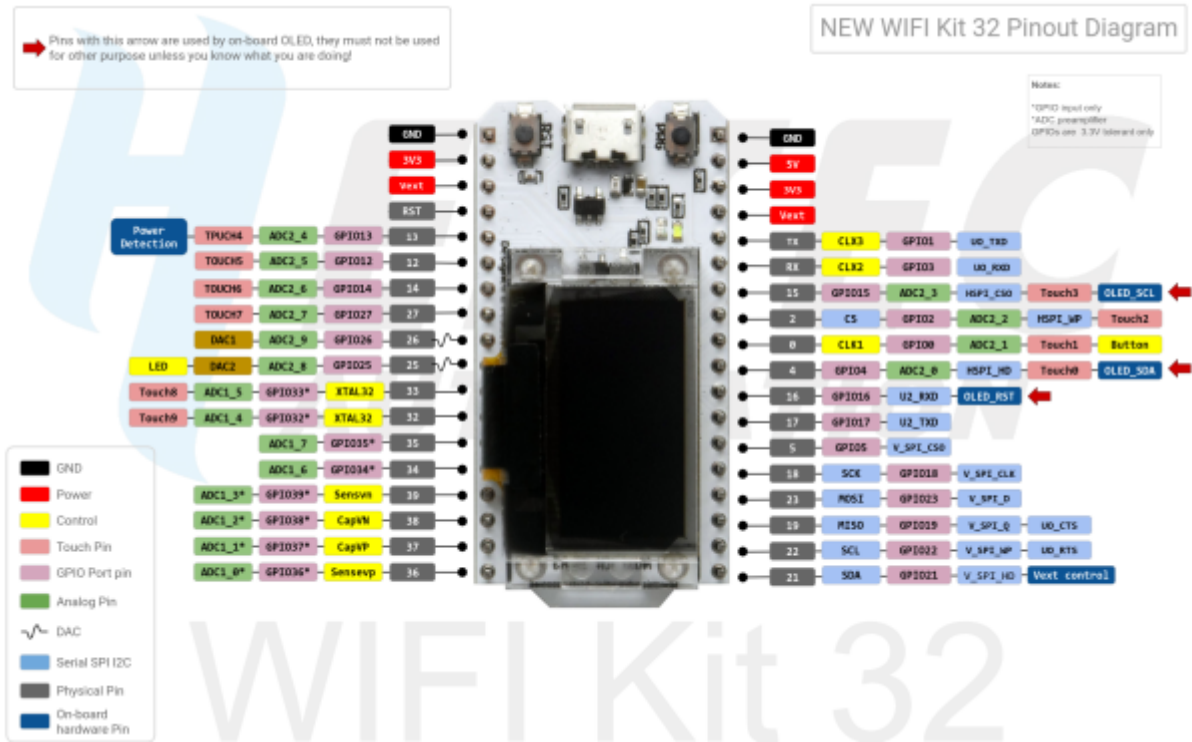
playelek.com  
 EE-AUG-2016  
 ver 1

physical pinout

## MakerHawk ESP32 OLED Display

- [resources](#)

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



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