

ESP32

LILYGO TTGO T5 V2.3_2.13

- <https://fr.aliexpress.com/item/32869729970.html>
- display: GxGDEM0213B74
- platformio project: <https://github.com/Xinyuan-LilyGO/T5-Ink-Screen-Series>
 - #define LILYGOT5V213
 - #include <GxGDEM0213B74/GxGDEM0213B74.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/v
 WPA/WPA2/WPA2-Enterprise/WPS
 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:
 Name: ADC (green), DAC (yellow), SPI (black), UART (blue), I2C (red), Touch (purple), Misc (grey)
*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 GPIO36 pin14

ADC PA RTC_GPI03 ADC1_CH3 SENSOR_VN GPIO39 pin13

RTC_GPI04 ADC1_CH6 VDET1 GPIO34 pin12

RTC_GPI05 ADC1_CH7 VDET2 GPIO35 pin11

XTAL_32kHz Touch9 RTC_GPI09 ADC1_CH4 GPIO32 pin10

XTAL_32kHz Touch8 RTC_GPI08 ADC1_CH5 GPIO33 pin9

DAC_1 RTC_GPI06 ADC2_CH8 EMAC_RXD0 GPIO25 pin8

DAC_2 RTC_GPI07 ADC2_CH9 EMAC_RXD1 GPIO26 pin7

Touch7 RTC_GPI017 ADC2_CH7 EMAC_RX_DV GPIO27 pin6

Touch6 RTC_GPI016 ADC2_CH6 EMAC_TXD2 GPIO14 pin5

HS2_CLK SD_CLK HSP1_CLK M1MS Touch5 RTC_GPI015 ADC2_CH5 EMAC_TXD3 GPIO12 pin4

HS2_DATA2 SD_DATA2 HSP1_MISO MTD1 Touch5 RTC_GPI015 ADC2_CH5 EMAC_TXD3 GPIO12 pin4

HS2_DATA3 SD_DATA3 HSP1_MOSI MTKC Touch4 RTC_GPI014 ADC2_CH4 EMAC_RX_ER GPIO13 pin3

GND pin2

VIN pin1

pin15 GPIO23 SPT_MOSI HS1_STROBE

pin14 GPIO22 EMAC_TXD1 UBRTS I2C_SCL

pin13 GPIO1 EMAC_RXD2 UBRXD CLK_OUT3

pin12 GPIO3 UBRXD CLK_OUT2

pin11 GPIO21 EMAC_TX_EN I2C_SDA

pin10 GPIO19 EMAC_TXD0 UBRCTS SPT_MISO

pin9 GPIO18 SPT_CLK HS1_DATA7

pin8 GPIO5 EMAC_RX_CLK SPT_CS0 HS1_DATA6

pin7 GPIO17 EMAC_CLKOUT180 U2_TXD HS1_DATA5

pin6 GPIO16 EMAC_CLKOUT U2_RXD HS1_DATA4

pin5 GPIO4 EMAC_TX_ER ADC2_CH0 RTCIO10 Touch0 HSP1HD SD_DATA1 HS2_DATA1

pin4 GPIO2 ADC2_CH2 RTCIO12 Touch2 HSP1WP

pin3 GPIO15 EMAC_RXD3 ADC2_CH3 RTCIO13 Touch3 MTD0 HSP1_CS0 SD_CND HS2_CND

pin2 GND

pin1 VDD_3V3

Legend:
 Power (red), GND (black), Serial Pin (blue), Analog Pin (green), Control (yellow), Physical Pin (grey), Port Pin (purple), Touch Pin (orange), DAC Pin (pink)

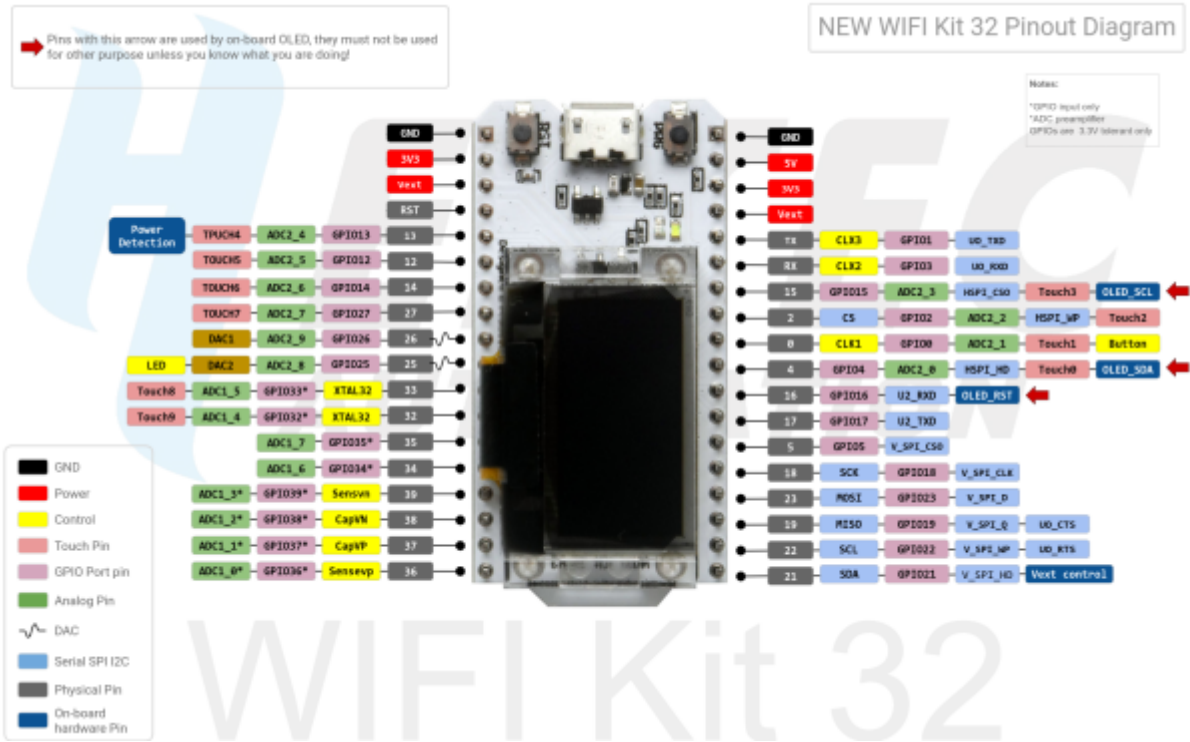
playelek.com
 22-116-2016
 v1.1

physical pinout

MakerHawk ESP32 OLED Display

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

- pins arduino



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