

# ESP32

## AZ-Delivery D1 Mini ESP32

pinout

datasheet

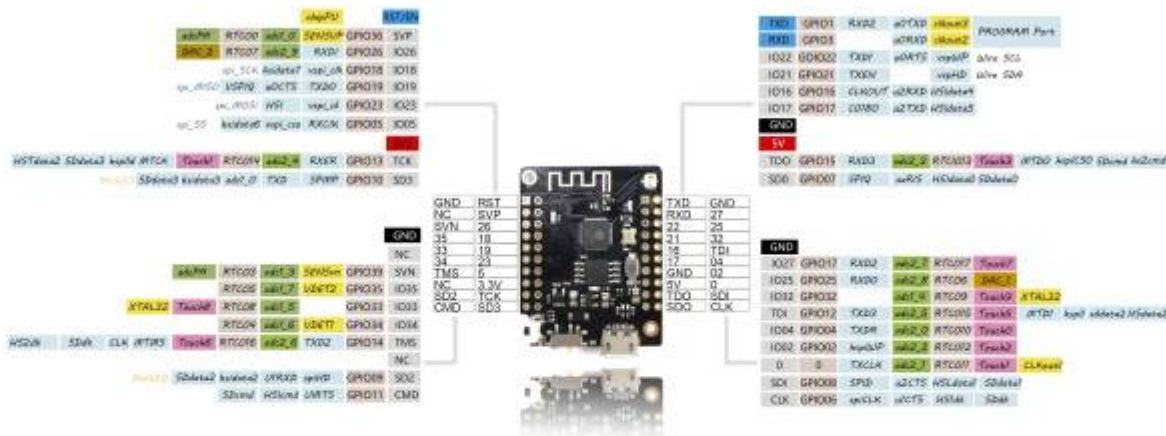
## TTGO ESP32

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)  
VUSB: 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/j  
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

**Name**

- ADC
- DIAC
- GND
- SPI
- Control
- UART
- Arduino
- Touch
- GPIO
- 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	pin15	GPIO23	SPI_MOSI	HS1_STROBE												
ADC_PA	RTC_GPIO100	ADC1_CH0	SENSOR_VP	GPIO36	pin14	GPIO22	EMAC_TXD1	UBRTS	I2C_SCL									
ADC_PA	RTC_GPIO103	ADC1_CH3	SENSOR_VN	GPIO39	pin13	GPIO1	EMAC_RXD2	UBTXD	CLK_OUT3									
	RTC_GPIO104	ADC1_CH6	VDET1	GPIO34	pin12	GPIO3		UBRXD	CLK_OUT2									
	RTC_GPIO105	ADC1_CH7	VDET2	GPIO35	pin11	GPIO21	EMAC_TX_EN		I2C_SDA									
XTAL_32KHz	Touch9	RTC_GPIO109	ADC1_CH4	GPIO32	pin10	GPIO19	EMAC_TXD0	UBCTS	SPI_MISO									
XTAL_32KHz	Touch8	RTC_GPIO108	ADC1_CH5	GPIO33	pin9	GPIO18		SPI_CLK	HS1_DATA7									
	DAC_1	RTC_GPIO106	ADC2_CH8	EMAC_RXD0	pin8	GPIO15	EMAC_RX_CLK	SPI_CS0	HS1_DATA6									
	DAC_2	RTC_GPIO107	ADC2_CH9	EMAC_RXD1	pin7	GPIO17	EMAC_CLKOUT180	U2_TXD	HS1_DATA5									
	Touch7	RTC_GPIO117	ADC2_CH7	EMAC_RXD0V	pin6	GPIO16	EMAC_CLKOUT	U2_RXD	HS1_DATA4									
HS2_CLK	SD_CLK	HSP1_CLK	MINS	Touch6	RTC_GPIO116	ADC2_CH6	EMAC_TXD2	RTCI010	Touch0	HSP1HD	SD_DATA1	HS2_DATA1						
HS2_DATA2	SD_DATA2	HSP1_MISO	MTD1	Touch5	RTC_GPIO115	ADC2_CH5	EMAC_TXD3	GPIO12		HSP1WP								
HS2_DATA3	SD_DATA3	HSP1_MOSI	MTCK	Touch4	RTC_GPIO114	ADC2_CH4	EMAC_RX_ER	GPIO13	pin3	GPIO15	EMAC_RXD3	ADC2_CH3	RTCI013	Touch3	MTD0	HSP1_CS0	SD_CHD	HS2_CHD
									pin2									
									pin1	VDD_3V3								



POWER

GPIO

SPI Pin

Analog Pin


Control

Physical Pin

HS1 Pin

Touch Pin

DAC Pin



playelek.com

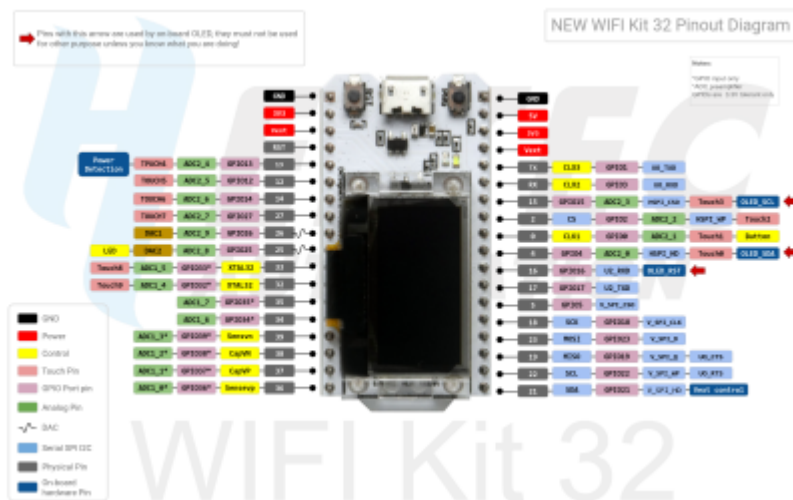
EE-AUG-2016

VER 1

physical pinout

## MakerHawk ESP32 OLED Display

resources



NEW WIFI Kit 32 Pinout Diagram

From: <https://wiki.csgalileo.org/> - Galileo Labs

Permanent link: <https://wiki.csgalileo.org/projects/internetofthings/esp32?rev=1617944830>

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