

ESP32

AZ-Delivery D1 Mini ESP32

pinout

datasheet

TTGO ESP32

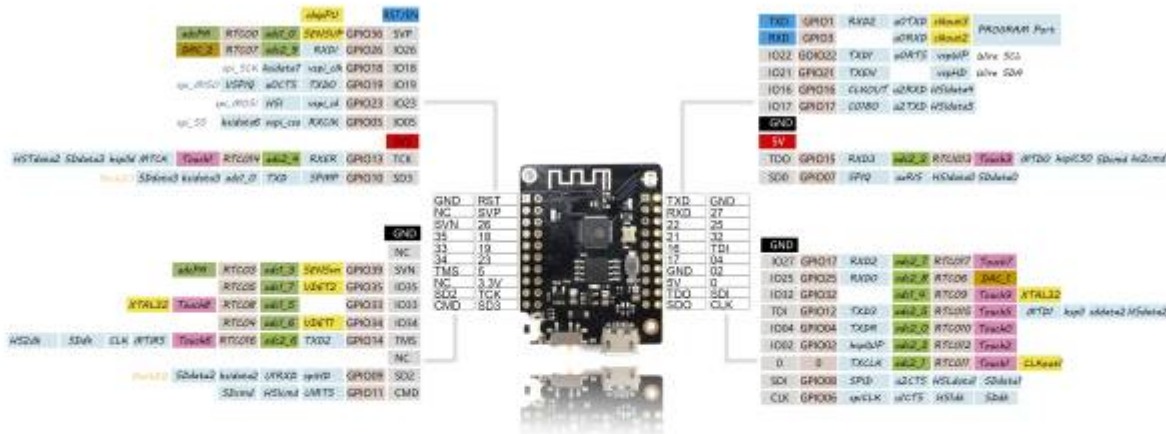
builtin led pin 22

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
Red	DIAC
Green	SPI
Yellow	Control
Blue	UART
Pink	Arduino
Light Blue	Touch
Light Green	GPIO
Light Purple	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	GPIO306	pin14	GPIO22	EMAC_TXD1	UBRTS	I2C_SCL									
ADC PA	RTC_GPIO103	ADC1_CH3	SENSOR_VN	GPIO330	pin13	GPIO1	EMAC_RXD2	UBTXD	CLK_OUT3									
	RTC_GPIO104	ADC1_CH6	VDET1	GPIO334	pin12	GPIO3		UBRXD	CLK_OUT2									
	RTC_GPIO105	ADC1_CH7	VDET2	GPIO335	pin11	GPIO21	EMAC_TX_EN		I2C_SDA									
XTAL_32KHz	Touch9	RTC_GPIO109	ADC1_CH4	GPIO332	pin10	GPIO19	EMAC_TXD0	UBCTS	SPI_MISO									
XTAL_32KHz	Touch8	RTC_GPIO108	ADC1_CH5	GPIO333	pin9	GPIO18		SPI_CLK	HS1_DATA7									
	DAC_1	RTC_GPIO106	ADC2_CH8	EMAC_RXD0	GPIO120	pin8	GPIO105	EMAC_RX_CLK	SPI_CS0	HS1_DATA6								
	DAC_2	RTC_GPIO107	ADC2_CH9	EMAC_RXD1	GPIO120	pin7	GPIO117	EMAC_CLKOUT180	U2_TXD	HS1_DATA5								
	Touch7	RTC_GPIO117	ADC2_CH7	EMAC_RXD_V	GPIO127	pin6	GPIO116	EMAC_CLKOUT	U2_RXD	HS1_DATA4								
HS2_CLK	SD_CLK	HSP1_CLK	M1NS	Touch6	RTC_GPIO116	ADC2_CH6	EMAC_TXD2	GPIO114	pin5	GPIO4	EMAC_TX_ER	ADC2_CH0	RTC1010	Touch0	HSP1HD	SD_DATA1	HS2_DATA1	
HS2_DATA2	SD_DATA2	HSP1_MISO	MTD1	Touch5	RTC_GPIO115	ADC2_CH5	EMAC_TXD3	GPIO112	pin4	GPIO2		ADC2_CH2	RTC1012	Touch2	HSP1WP			
HS2_DATA3	SD_DATA3	HSP1_MOSI	MTCK	Touch4	RTC_GPIO114	ADC2_CH4	EMAC_RX_ER	GPIO113	pin3	GPIO15	EMAC_RXD3	ADC2_CH3	RTC1013	Touch3	MTD0	HSP1_CS0	SD_CHD	HS2_CHD
									pin2	GND								
									pin1	VIN								
									pin1	VDD_3V3								



POWER

GND

Serial Pin

Analog Pin

Control

Physical Pin

HS2 Pin

Touch Pin

DAC Pin

POWER

GND

Serial Pin

Analog Pin

Control

Physical Pin

HS2 Pin

Touch Pin

DAC Pin

playelek.com

EE-AUG-2016

VER 1

physical pinout

MakerHawk ESP32 OLED Display

- resources
- github lib



NEW WIFI Kit 32 Pinout Diagram

Please refer to the arrows and labels for the board LEDs, they may not be used for other purposes unless you know what you are doing!

Legend:

- GPIO
- Power
- Control
- Physical Pin
- GPIO Header pin
- Analog Pin
- DAC
- Serial SPI I2C
- Physical Pin
- On-board Hardware Pin

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