

ESP32

AZ-Delivery D1 Mini ESP32

pinout

datasheet

TTGO ESP32

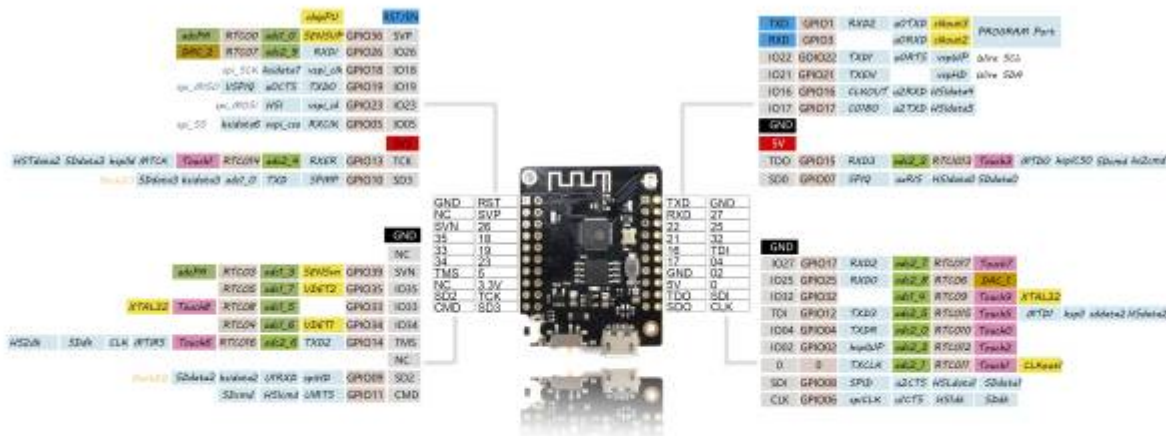
builtin led pin 22

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/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

Name

- ADC
- DIAC
- SPI
- Control
- UART
- Arduino
- Touch
- GPIO
- Misc



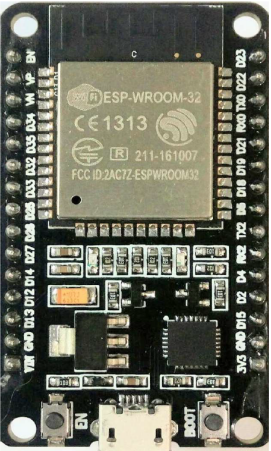
*GPIO: Port Input Only
 *ADC: Pre-amplifier ADC
 GPIO 3.3V tolerant only

- [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_GPI00	ADC1_CH0	SENSOR_VP	GPIO30	pin14	GPIO22	EMAC_TXD1	UBRTS	I2C_SCL											
ADC PA	RTC_GPI03	ADC1_CH3	SENSOR_VN	GPIO39	pin13	GPIO1	EMAC_RXD2	UBTxD	CLK_OUT3											
	RTC_GPI04	ADC1_CH6	VDET1	GPIO34	pin12	GPIO3		UBRXD	CLK_OUT2											
	RTC_GPI05	ADC1_CH7	VDET2	GPIO35	pin11	GPIO21	EMAC_TX_EN		I2C_SDA											
XTAL_32kHz	Touch9	RTC_GPI09	ADC1_CH4	GPIO32	pin10	GPIO19	EMAC_TXD0	UBCTS	SPI_MISO											
XTAL_32kHz	Touch8	RTC_GPI08	ADC1_CH5	GPIO33	pin9	GPIO18		SPI_CLK	HS1_DATA7											
DAC_1	RTC_GPI06	ADC2_CH8	EMAC_RXD0	GPIO20	pin8	GPIO5	EMAC_RX_CLK	SPI_CS0	HS1_DATA6											
DAC_2	RTC_GPI07	ADC2_CH9	EMAC_RXD1	GPIO26	pin7	GPIO17	EMAC_CLKOUT180	U2_TXD	HS1_DATA5											
Touch7	RTC_GPI017	ADC2_CH7	EMAC_RX_DV	GPIO27	pin6	GPIO16	EMAC_CLKOUT	U2_RXD	HS1_DATA4											
HS2_CLK	SD_CLK	HSP1_CLK	MTNS	pin5	pin5	GPIO4	EMAC_TX_ER	ADC2_CH0	RTCIO10	Touch0	HSP1HD	SD_DATA1	HS2_DATA1							
HS2_DATA2	SD_DATA2	HSP1_MISO	MTD1	Touch5	RTC_GPI015	ADC2_CH5	EMAC_TXD3	GPIO14	pin5	pin4	GPIO2		ADC2_CH2	RTCIO12	Touch2	HSP1WP				
HS2_DATA3	SD_DATA3	HSP1_MOSI	MTCK	Touch4	RTC_GPI014	ADC2_CH4	EMAC_RX_ER	GPIO13	pin3	pin3	GPIO15	EMAC_RXD3	ADC2_CH3	RTCIO13	Touch3	MTD0	HSP1_CS0	SD_CH0	HS2_CH0	
			GND	pin2	pin2				pin2	pin2	GND									
			VIN	pin1	pin1	VDD_3V3														



physical pinout

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