

ESP32

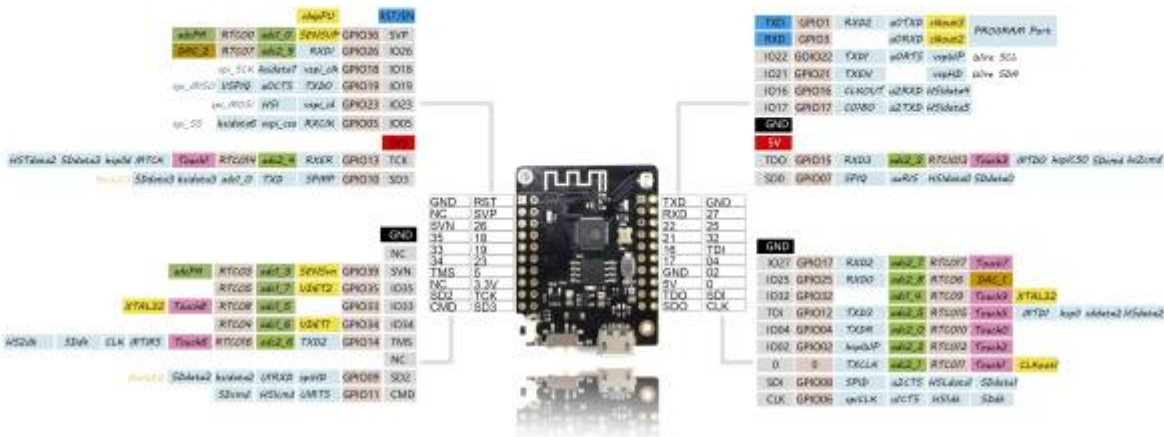
TTGO ESP32

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

<p>Power</p> <p>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</p> <p>Wireless</p> <p>Wifi: 802.11 b/g/n/e/l WPA/WPA2/WPA2-Enterprise/SPS Bluetooth: Bluetooth 4.2/BLE</p>	<p>ESP32</p> <p>Dual-core Xtensa 32-bit LX6 Up to 240MHz 520KB internal SRAM 4MB external flash</p> <p>Multiplexed I/Os allow up to</p> <ul style="list-style-type: none"> 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 	<p>ADC Preamp</p> <p>GPIO pins 36, 37, 38, and 39 are able to be used as a low noise analog pre-amplifier</p> <p>Other*</p> <ul style="list-style-type: none"> Hall Sensor Temp sensor (-40C to 125C) SD/SDIO/MMC Host Controller CAN Bus <p><small>*On database, but may not be supported yet</small></p>	<table border="1"> <tr><td>Name</td><td>ADC</td></tr> <tr><td>Power</td><td>DAC</td></tr> <tr><td>GND</td><td>SPI</td></tr> <tr><td>Control</td><td>UART</td></tr> <tr><td>Arduino</td><td>Touch</td></tr> <tr><td>GPIO</td><td>Misc</td></tr> </table> <p><small>*GPIO: Port Input Only *ADC: Pre-amplifier ADC GPIO 3.3V tolerant only</small></p>	Name	ADC	Power	DAC	GND	SPI	Control	UART	Arduino	Touch	GPIO	Misc
Name	ADC														
Power	DAC														
GND	SPI														
Control	UART														
Arduino	Touch														
GPIO	Misc														

- [arduino example](#)

DOIT ESP32

DOIT ESP32 DEVKIT V1 PINOUT

Chip-enable signal, Active High.		EN	pin15		pin15	GPI023	SPI_MOSI	HS1_STROBE						
ADC_PA	RTC_GPI08	ADC1_CH0	SENSOR_VP	GPI030	pin14	GPI022	EMAC_TXD1	UBRTS	I2C_SCL					
ADC_PA	RTC_GPI03	ADC1_CH3	SENSOR_VN	GPI039	pin13	GPI01	EMAC_RXD2	UBTXD	CLK_OUT3					
	RTC_GPI04	ADC1_CH6	VDET1	GPI034	pin12	GPI03		UBRXD	CLK_OUT2					
	RTC_GPI05	ADC1_CH7	VDET2	GPI035	pin11	GPI021	EMAC_TX_EN		I2C_SDA					
XTAL_32KHZ	Touch9	RTC_GPI09	ADC1_CH4	GPI032	pin10	GPI019	EMAC_TXD0	UBCTS	SPI_MISO					
XTAL_32KHZ	Touch8	RTC_GPI08	ADC1_CH5	GPI033	pin9	GPI018			SPI_CLK	HS1_DATA7				
	DAC_1	RTC_GPI06	ADC2_CH8	EMAC_RXD0	pin8	GPI05	EMAC_RX_CLK	SPI_CS0		HS1_DATA6				
	DAC_2	RTC_GPI07	ADC2_CH9	EMAC_RXD1	pin7	GPI017	EMAC_CLKOUT180	U2_TXD		HS1_DATA5				
	Touch7	RTC_GPI017	ADC2_CH7	EMAC_RX_DV	pin6	GPI016	EMAC_CLKOUT	U2_RXD		HS1_DATA4				
HS2_CLK	SD_CLK	HSP1_CLK	MTHS	Touch6	pin5	GPI04	EMAC_TX_ER	ADC2_CH0	RTCI010	Touch0	HSP1HD	SD_DATA1	HS2_DATA1	
HS2_DATA2	SD_DATA2	HSP1_MISO	MTD1	Touch5	pin4	GPI02		ADC2_CH2	RTCI012	Touch2		HSP1WP		
HS2_DATA3	SD_DATA3	HSP1_MOSI	MTCK	Touch4	pin3	GPI015	EMAC_RXD3	ADC2_CH3	RTCI013	Touch3	MTD0	HSP1_CS0	SD_CH0	HS2_CH0
					pin2	GND								
					pin1	VDD	3V3							

POWER

GND

Serial Pin

Header Pin


Control


Physical Pin

Port Pin

Touch Pin

IO Pin





playelek.com
22-aug-2016
ver 1

physical pinout

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