

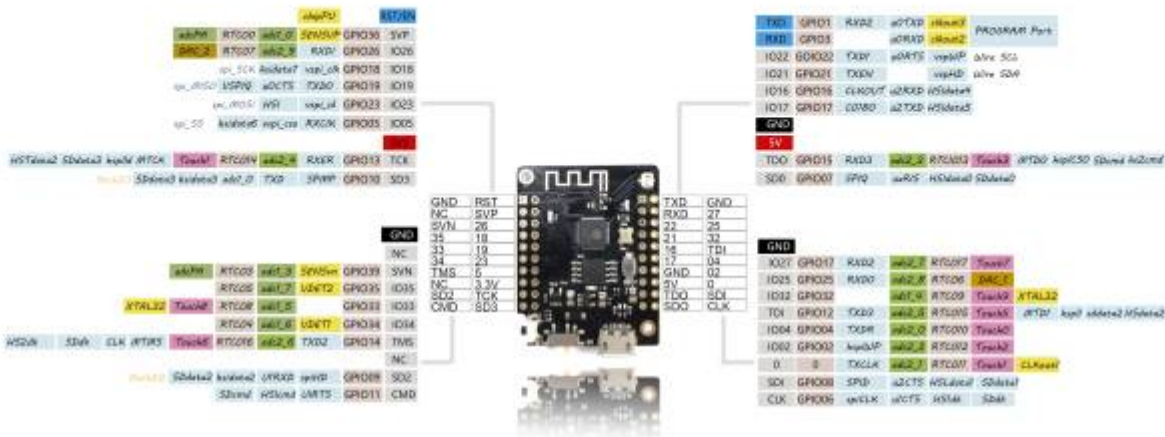
ESP32

TTGO ESP32

ESP32 devkit v1 [TTGO mini32 ESP32 bangood amazon](#)

Chip is ESP32D0WDQ6 (revision 1)

Features: WiFi, BT, Dual Core, 240MHz, VRef calibration in efuse



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 I2C 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 database, but may not be supported yet

Name: ADC
 DAC
 GND
 Control
 Arduino
 Touch
 GPIO
 Misc


*GPIO: Port Input Only
 *ADC: Preamp/ADC
 GPIO 3.3V tolerant only


- [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	UBRSTS	I2C_SCL					
ADC_PA	RTC_GPI03	ADC1_CH3	SENSOR_VN	GPI039	pin13	GPI01	EMAC_RXD2	UBRDX	CLK_OUT3					
	RTC_GPI04	ADC1_CH6	VDET1	GPI034	pin12	GPI03		UBRDX	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	UBRCTS	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	MTDO	HSP1_CS0	SD_CHD	HS2_CHD
					pin2	GND								
					pin1	VDD	3V3							







physical pinout

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