

# ESP32

## D1 Mini ESP32

pinout

datasheet

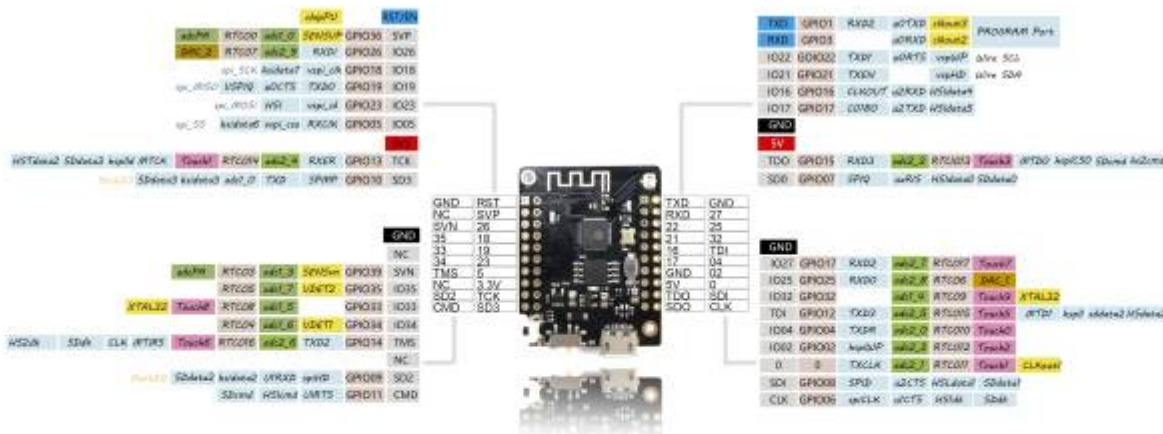
## TTGO ESP32

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/l  
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
ADC	ADC
DAC	DAC
SPI	SPI
UART	UART
Touch	Touch
Misc	Misc

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

- [arduino example](#)

