

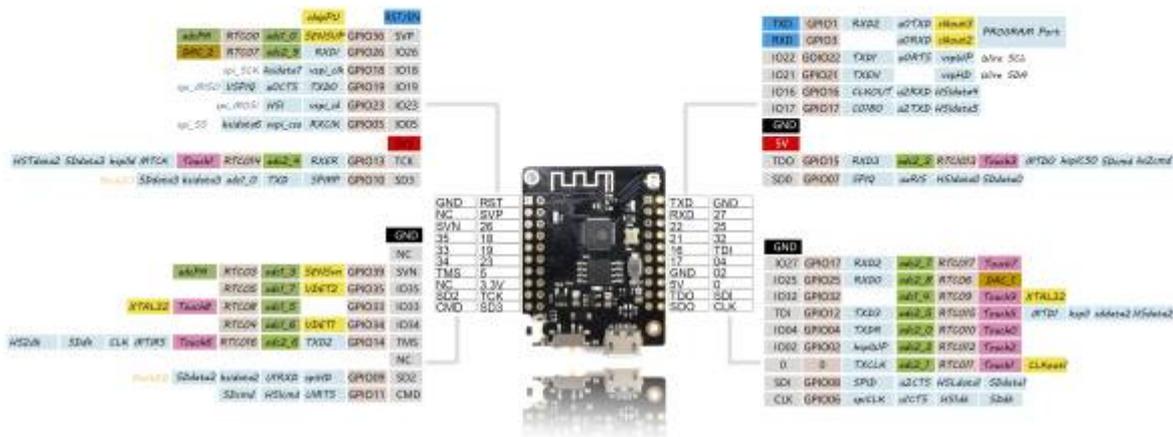
ESP32

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 | 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 GPI 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 <small>*On database, but may not be supported yet</small> | <table border="1"> <tr><td>Name:</td><td>ADC</td></tr> <tr><td></td><td>DAC</td></tr> <tr><td></td><td>GND</td></tr> <tr><td></td><td>SPI</td></tr> <tr><td></td><td>Control</td></tr> <tr><td></td><td>UART</td></tr> <tr><td></td><td>Arduino</td></tr> <tr><td></td><td>Touch</td></tr> <tr><td></td><td>GPIO</td></tr> <tr><td></td><td>Misc</td></tr> </table> <p><small>*GPIO: Port Input Only *ADC: Preamp/ADC GPIO 3.3V tolerant only</small></p> | Name: | ADC | | DAC | | GND | | SPI | | Control | | UART | | Arduino | | Touch | | GPIO | | Misc |
| Name: | ADC | | | | | | | | | | | | | | | | | | | | | | |
| | 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 | GPIO23 | SPI_MOSI | HS1_STROBE | | | | | | | | | | | |
| ADC_PA | RTC_GPIO0 | ADC1_CH0 | SENSOR_VP | GPIO30 | pin14 | GPIO22 | EMAC_TXD1 | UBRTS | I2C_SCL | | | | | | | | | |
| ADC_PA | RTC_GPIO3 | ADC1_CH3 | SENSOR_VN | GPIO39 | pin13 | GPIO1 | EMAC_RXD2 | UBRXD | CLK_OUT3 | | | | | | | | | |
| | RTC_GPIO4 | ADC1_CH6 | VDET1 | GPIO34 | pin12 | GPIO3 | | UBRXD | CLK_OUT2 | | | | | | | | | |
| | RTC_GPIO5 | ADC1_CH7 | VDET2 | GPIO35 | pin11 | GPIO21 | EMAC_TX_EN | | I2C_SDA | | | | | | | | | |
| XTAL_32KHZ | Touch9 | RTC_GPIO9 | ADC1_CH4 | GPIO32 | pin10 | GPIO19 | EMAC_TXD0 | UBCTS | SPI_MISO | | | | | | | | | |
| XTAL_32KHZ | Touch8 | RTC_GPIO8 | ADC1_CH5 | GPIO33 | pin9 | GPIO18 | | SPI_CLK | HS1_DATA7 | | | | | | | | | |
| | DAC_1 | RTC_GPIO6 | ADC2_CH8 | EMAC_RXD0 | pin8 | GPIO5 | EMAC_RX_CLK | SPI_CS0 | HS1_DATA6 | | | | | | | | | |
| | DAC_2 | RTC_GPIO7 | ADC2_CH9 | EMAC_RXD1 | pin7 | GPIO17 | EMAC_CLKOUT180 | U2_TXD | HS1_DATA5 | | | | | | | | | |
| | Touch7 | RTC_GPIO17 | ADC2_CH7 | EMAC_RX_DV | pin6 | GPIO16 | EMAC_CLKOUT | U2_RXD | HS1_DATA4 | | | | | | | | | |
| HS2_CLK | SD_CLK | HSP1_CLK | MTHS | Touch6 | RTC_GPIO16 | ADC2_CH6 | EMAC_TXD2 | GPIO14 | EMAC_TX_ER | ADC2_CH0 | RTCI010 | Touch0 | HSP1HD | SD_DATA1 | HS2_DATA1 | | | |
| HS2_DATA2 | SD_DATA2 | HSP1_MISO | MTD1 | Touch5 | RTC_GPIO15 | ADC2_CH5 | EMAC_TXD3 | GPIO12 | pin4 | GPIO2 | ADC2_CH2 | RTCI012 | Touch2 | HSP1WP | | | | |
| HS2_DATA3 | SD_DATA3 | HSP1_MOSI | MTCK | Touch4 | RTC_GPIO14 | ADC2_CH4 | EMAC_RX_ER | GPIO13 | pin3 | GPIO15 | EMAC_RXD3 | ADC2_CH3 | RTCI013 | Touch3 | MTDO | HSP1_CS0 | SD_CHD | HS2_CHD |
| | | | | | GND | pin2 | | | | | | | | | | | | |
| | | | | | VIN | 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

From: <https://wiki.csgalileo.org/> - Galileo Labs

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