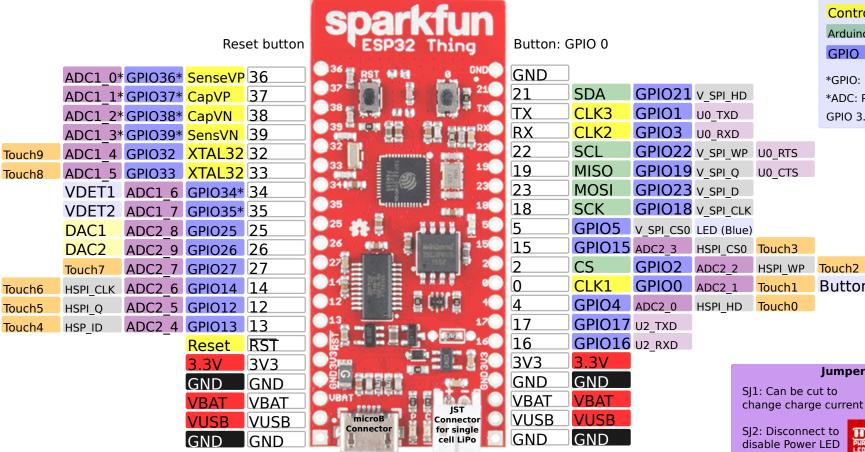
SparkFun ESP32 Thing (DEV-13907)

PCB Antenna



Power LED: Red

Charge LED: Yellow

Jumpers SJ1: Can be cut to change charge current SJ2: Disconnect to disable Power LED SI3: Use to change voltage to flash chip

Button

Name

Power

GND

Control

Arduino

GPIO

ADC

DAC

SPL

UART

Touch

Misc

*GPIO: Port Input Only

*ADC: Preamplifier ADC

GPIO 3.3V tolerant only

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 36,67,38, 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



