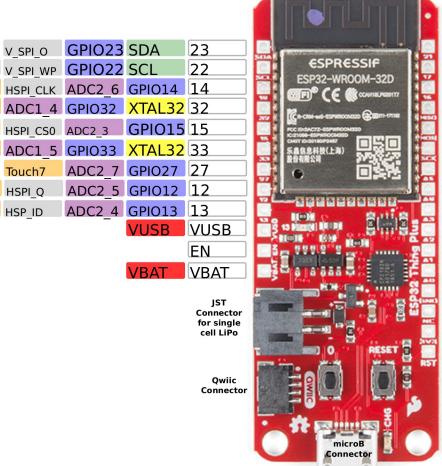
# SparkFun ESP32 Thing Plus (WRL-15663)

PCB Antenna



GPIO21 V SPI HD GPIO17TX1 17 **GPIO16 RX1** 16 19 MISO GPIO19 V SPI Q U0 CTS GPIO18 V SPI CLK 18 MOSI GPIO5 V SPI CSO SCK A5 GPIO4 ADC2 0 HSPI HD Touch0 Α4 SenseVP GPIO36\* ADC1 0\* АЗ SensVN GPIO39\* ADC1 3\* Α2 GPIO34\* ADC1 6 VDET1 Α1 GPIO25 ADC2 8 DAC1 GPIO26 ADC2 9 DAC2 Α0 GND GND NC

**Power** 

ESP32 VCC range: 2.2V-3.6V

VBAT: direct to battery (and charger)

V SPI O

Touch7

HSPI Q

HSP ID

U0 RTS

Touch6

Touch9

Touch3

Touch8

Touch5

LED (Blue) Touch4

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 16MB external flash

### Multiplexed I/Os allow up to

13 ADC channels

3 SPI interfaces 3 UART interfaces

2 I2C interfaces 2 I2S interfaces

16 PWM outputs 2 DACs

8 Capacitive Touch Inputs

## **ADC Preamp**

3V3

GPIO pins A3 and A4 are able to be used as a low noise analog pre-amplifier

3.3V

RESET Reset

Charge LED: Yellow

Button: GPIO 0

Reset button

#### Other\*

Hall Sensor Temp sensor (-40C to 125C) SD/SDIO/MMC Host Controller **CAN Bus** 

\*On datasheet, but may not be supported yet



Name

Power

GND

Control

Arduino

GPIO

ADC

DAC

SPI

UART

Touch

Misc

\*GPIO: Port Input Only

\*ADC: Preamplifier ADC

GPIO 3.3V tolerant only

