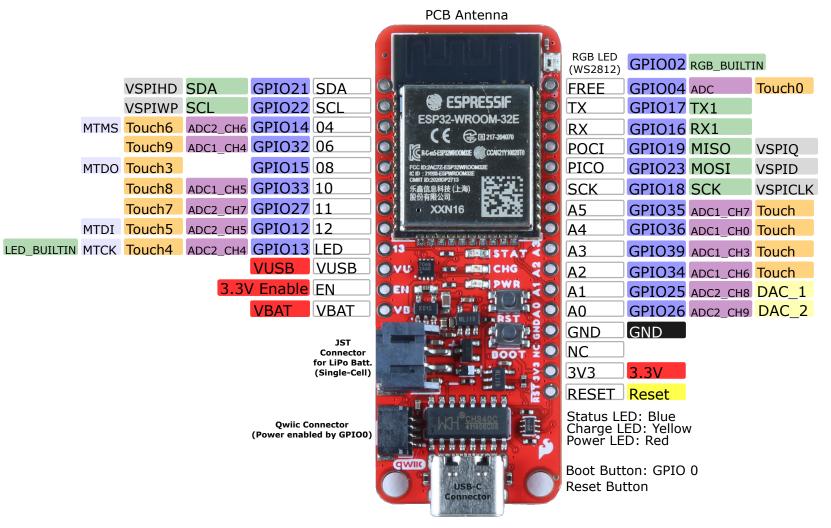
SparkFun ESP32 Thing Plus (USB-C) (WRL-20168)



Power

ESP32 VCC Range: 2.2V-3.6V

VBAT: Direct to battery (and charger)

VUSB: Direct to USB (5V)

3V3: Direct to 3.3V regulator (700mA)

ESP32-S2 Current Consumption:

WiFi: 380mA (peak)Light-Sleep: 800μADeep-Sleep: 10-150μA

Power Control

EN pin - Power for board

GPIO0 - Power to Qwiic Connector

ESP32-WROOM

Dual-Core Xtensa 32-bit LX7

Up to 240MHz 520KB SRAM 16MB SPI Flash

Multiplexed I/Os allow up to

13x 12-bit ADC Channels

3x SPI Interfaces 3x UART Interfaces

2x I2C Interfaces 2x I2S Interface

16x 20-bit PWM Channels

2x 8-bit DACs

8x Capacitive Touch Inputs

Wireless

WiFi: 802.11 b/g/n (up to 150Mbps) WPA/WPA2/WPA2-Enterprise/SPS Bluetooth:Bluetooth 4.2/BLE

Other*

Temp sensor (-40°C to 125°C)

Hall Sensor

SD/SDIO/MMC Host Controller

· μSD card slot CS: GPIO05 SS

CAN Bus

*On datasheet, but may not be supported yet



Name

Power

GND

Control

Arduino

GPIO

ADC

SPI

UART

Touch

Misc

GPIO 3.3V tolerant only

DAC

