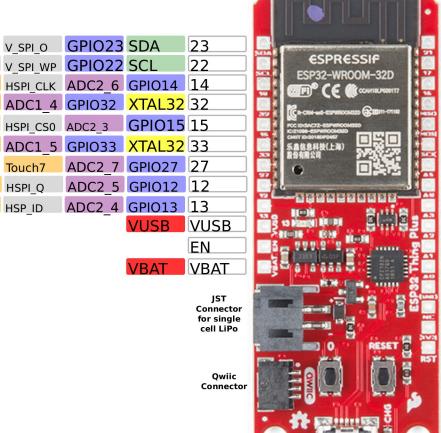
SparkFun ESP32 Thing Plus (WRL-15663)

PCB Antenna



21	GPIO21	V_SPI_HD		
17	GPIO17	TX1		
16	GPIO16	RX1		
19	MISO	GPIO19	V_SPI_Q	U0_CTS
18	MOSI	GPIO18	V_SPI_CLK	
5	SCK	GPIO5	V_SPI_CSO	
A5	GPIO4	ADC2_0	HSPI_HD	Touch0
A4	SenseVP	GPIO36*	ADC1_0*	:
A3	SensVN	GPIO39 *	ADC1_3*	:
A2	GPIO34 *	ADC1_6	VDET1	
A1	GPIO25	ADC2_8	DAC1	
A0	GPIO26	ADC2_9	DAC2	
GND	GND			
NC				
3V3	3.3V			

Power

ESP32 VCC range: 2.2V-3.6V VBAT: direct to battery (and charger)

VUSB: direct to USB (5V)

U0 RTS

Touch6

Touch9

Touch3

Touch8

Touch5

LED (Blue) Touch4

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

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

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



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SparkFun Electronics: WRL-15663