SparkFun ESP32 Thing (DEV-13907)

**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

**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)*

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**Jumpers**
- SJ1: Can be cut to change current
- SJ2: Disconnect to disable Power LED
- SJ3: Use to change voltage to flash chip

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**Details**
- Reset button
- Button: GPIO 0
- Power LED: Red
- Charge LED: Yellow

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**Names**
- ADC
- DAC
- GND
- SPI
- Control
- UART
- GPIO
- Misc

***GPIO: Port Input Only**
***ADC: Preamplifier ADC GPIO 3.3V tolerant only**

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**Markings**
- **36**
- **37**
- **38**
- **39**
- **32**
- **33**
- **34**
- **35**
- **25**
- **26**
- **27**
- **14**
- **12**
- **13**
- **3V3**
- **GND**
- **3V3**
- **GND**
- **VBAT**
- **VBAT**
- **USB**
- **USB**
- **GND**
- **GND**

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**Connectors**
- **micro**
- **JST Connector for single cell LiPo**

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**Sparkfun Electronics**

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