SparkFun ESP32-S2 Thing Plus (WRL-17743)

**Power**
ESP32 VCC Range: 3.0V-3.6V
VBAT: Direct to battery (and charger)
VUSB: Direct to USB (5V)
3V3: Direct to 3.3V regulator (600mA)
ESP32-S2 Current Consumption:
- WiFi: 310mA (peak)
- Light-Sleep: 550µA
- Deep-Sleep: 20-235µA

**ESP32-S2 WROOM**
Single-Core Xtensa 32-bit LX7
Up to 240MHz
320KB SRAM
4MB SPI Flash

**Multiplexed I/Os allow up to**
20 12-bit ADC Channels
4 SPI Interfaces
2 UART Interfaces
2 I2C Interfaces
1 I2S Interface
8 PWM Channels
2 8-bit DACs
14 Capacitive Touch I/O

**Wireless**
WiFi: 802.11 b/g/n (up to 150Mbps)
WPA/WPA2/WPA2-Enterprise/SPS

**Other**
Temp sensor (-20°C to 110°C)
LCD Interface
Camera Interface
IR Remote Controller
ESP-MESH Networking
Cryptographic Hardware Accelerators

*On datasheet, but may not be supported yet